

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P393759

Luminaire Tested: **NFFLD-C40-D-UNV-66-VS**

Issue Date: 3/31/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393759  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P130632)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 3/31/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NFFLD-C40-D-UNV-66-VS  
Description: FLOODLIGHT WITH VANDAL SHIELD  
Light Source: (2) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

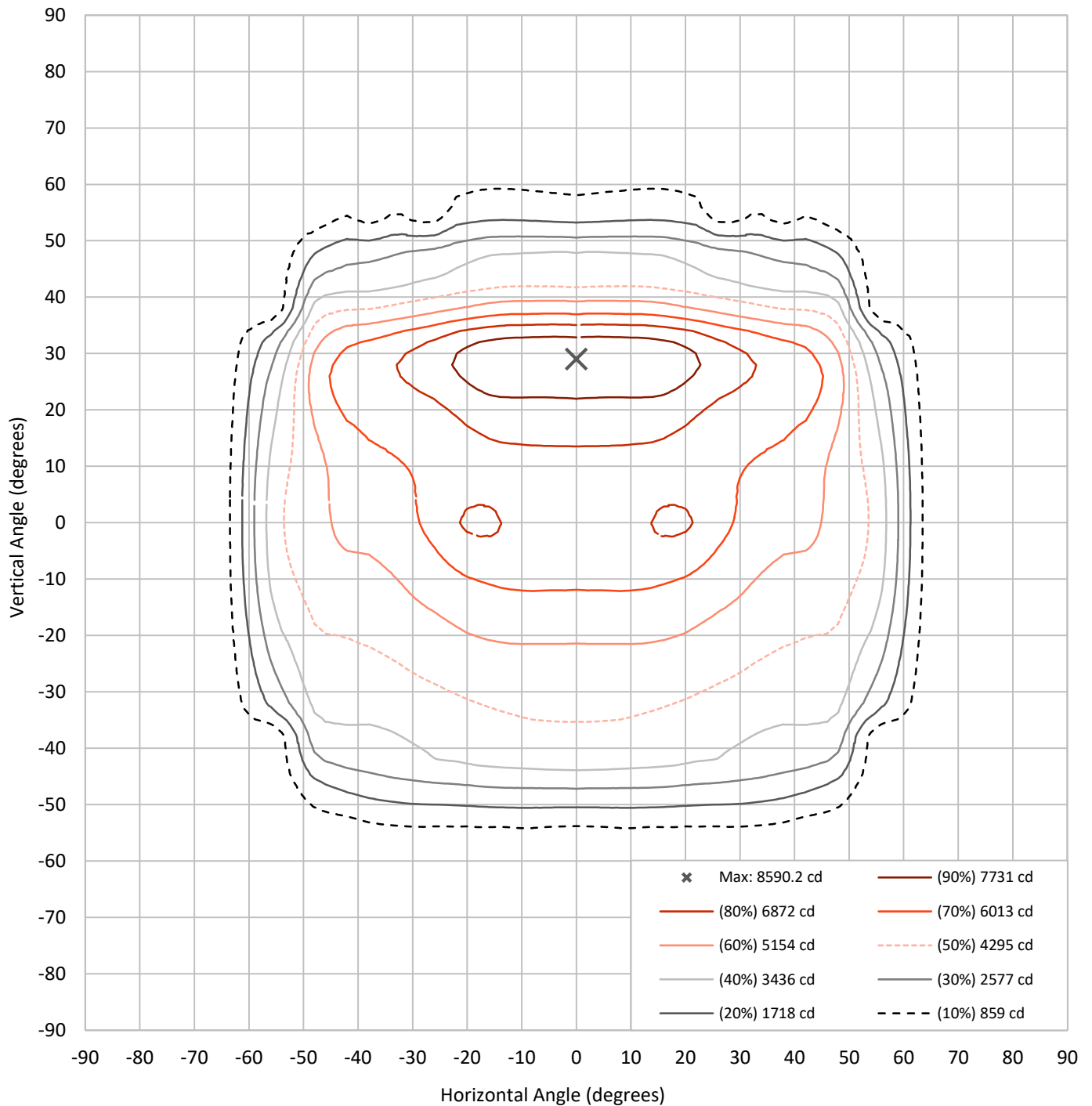
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	15568 lumens	Max Intensity:	8590.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	122.0 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	101.4°H x 77°V	Field Angle (10%):	124.2°H x 111.9°V
Beam Lumens:	11250.9 lumens	Field Lumens:	15065.4 lumens
Beam Efficiency:	72.3%	Field Efficiency:	96.8%
Input Watts (W):	127.6		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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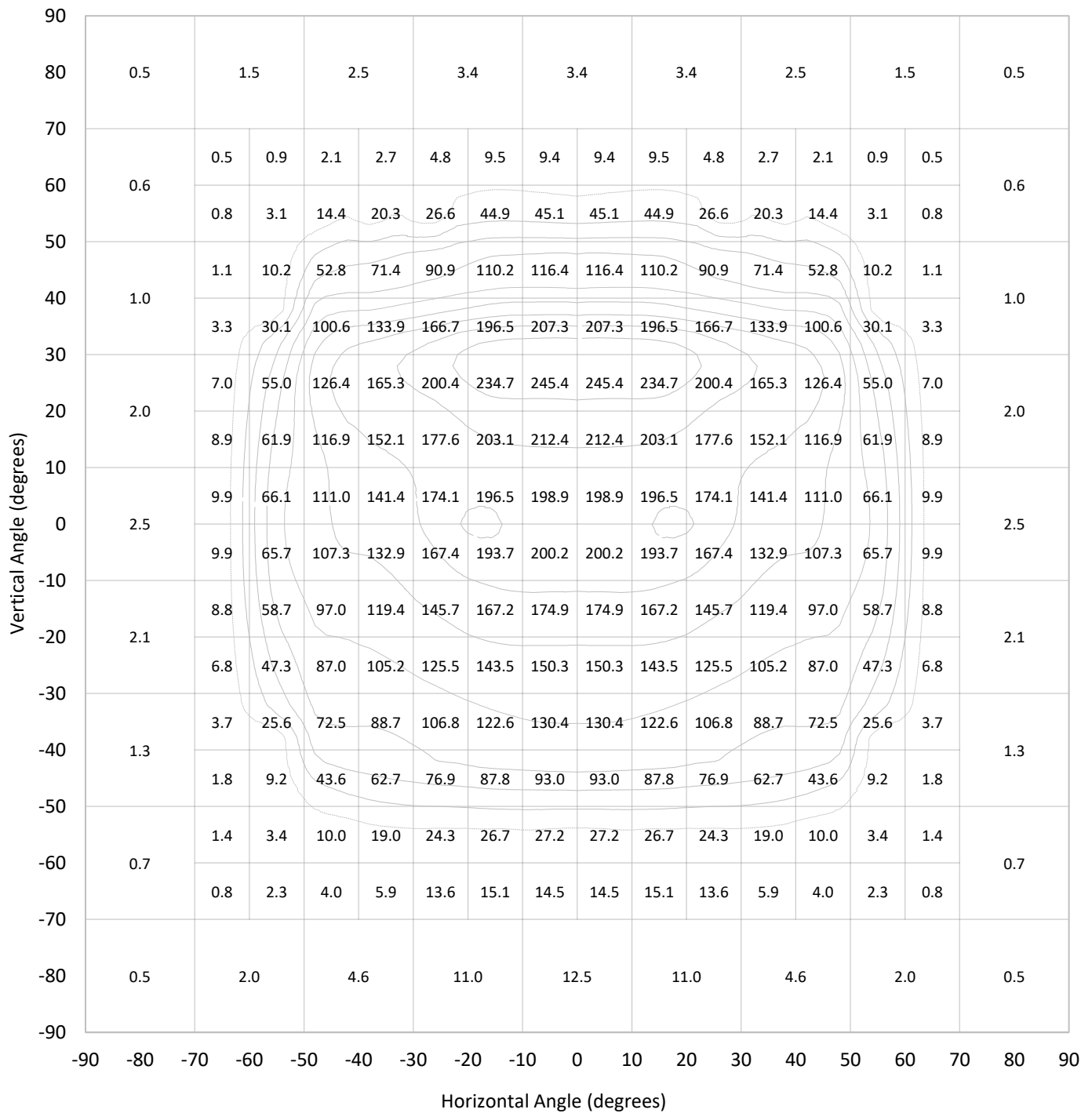
### Iso-Candela Plot



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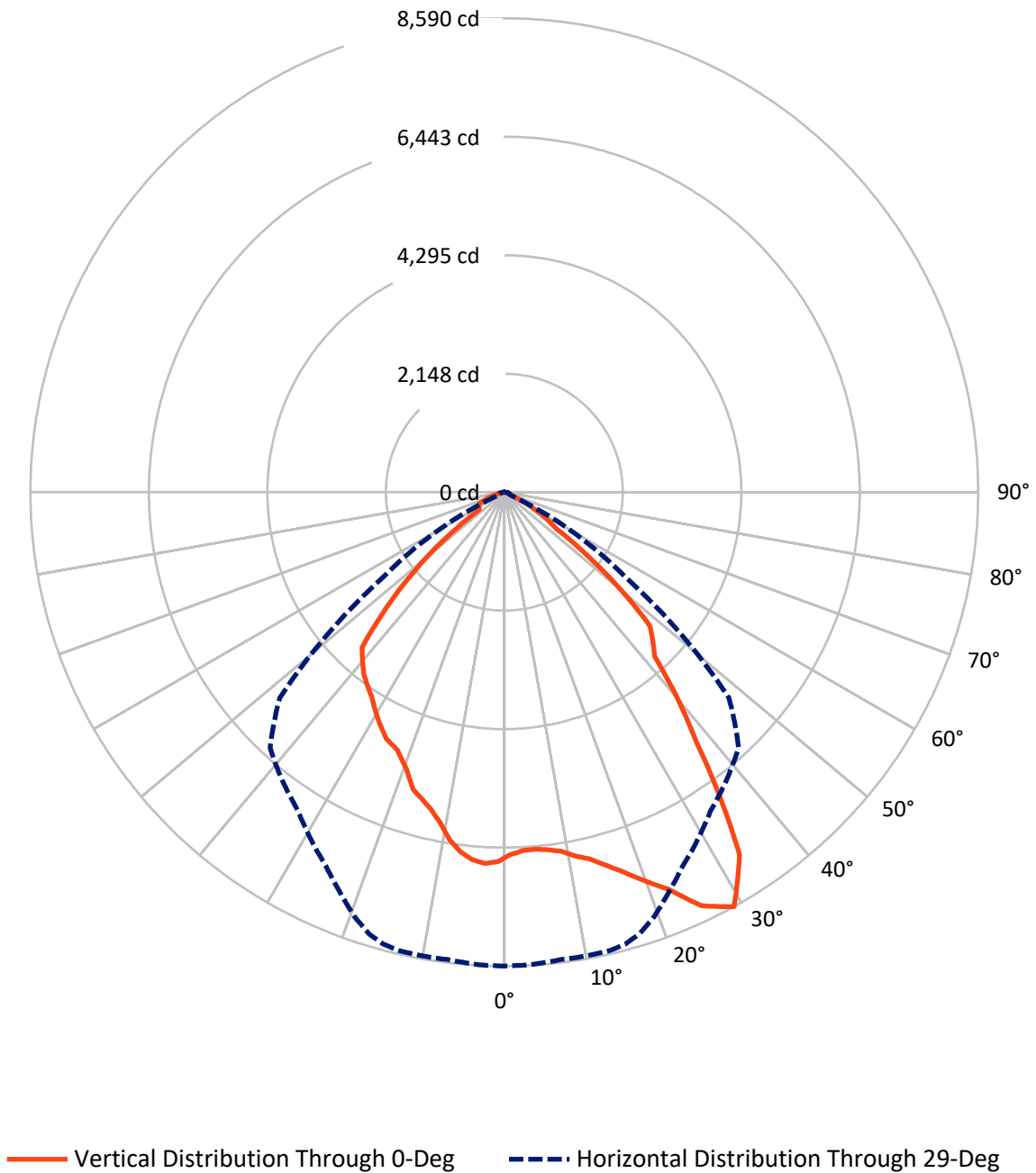
### Lumen Table



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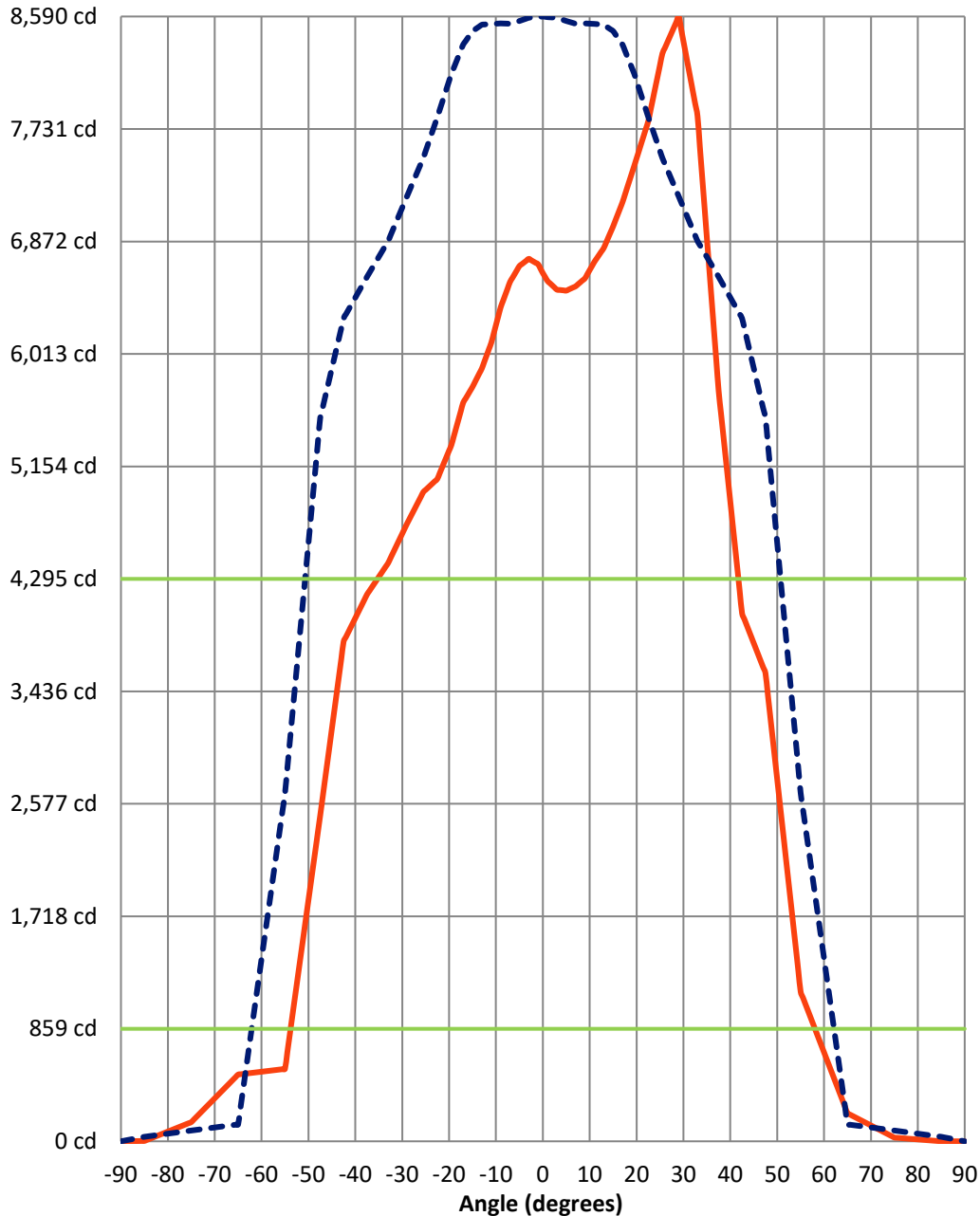
### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 101.4°  
 V Angle: 77°  
 Lumens: 11250.9  
 Efficiency: 72.3%

**Field:**  
 H Angle: 124.2°  
 V Angle: 111.9°  
 Lumens: 15065.4  
 Efficiency: 96.8%

**Spill:**  
 Lumens: 502.6  
 Efficiency: 3.2%

— Vertical Distribution through 0-Deg  
 - - Horizontal Distribution through 29-Deg



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FIELD  
BEAM

**CANDELA DISTRIBUTION:**

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	3.7	8.7	9.8	12.4	16.0	19.7	24.5	25.8	27.1	28.4
75°	28.4	28.4	27.1	24.5	21.9	24.5	25.8	25.8	24.5	19.7	17.2
65°	213.7	213.7	215.0	211.3	202.9	197.9	192.9	200.3	215.0	227.4	212.4
55°	1142.8	1172.1	1171.0	1226.4	1248.5	1288.9	1324.7	1335.7	1338.1	1301.2	1219.0
47.5°	3574.5	3604.0	3594.1	3597.8	3573.2	3560.9	3537.4	3521.6	3511.8	3465.0	3296.8
42.5°	4032.8	4054.9	4072.1	4091.8	4101.6	4106.6	4105.3	4085.5	4031.5	3932.1	3837.3
37.5°	5733.5	5789.9	5792.3	5793.6	5767.8	5749.5	5760.4	5725.9	5672.1	5581.0	5421.2
33°	7829.7	7838.2	7867.7	7865.3	7867.7	7813.7	7826.0	7778.1	7693.2	7594.9	7443.9
29°	8590.2	8585.3	8580.5	8555.9	8534.9	8537.3	8533.6	8527.5	8478.5	8375.2	8152.8
25.5°	8306.4	8288.0	8280.6	8238.9	8217.9	8245.0	8256.1	8245.0	8202.0	8085.3	7867.7
22.5°	7791.5	7778.1	7765.7	7749.7	7746.2	7757.2	7758.3	7758.3	7736.2	7652.7	7472.1
19.5°	7449.8	7441.3	7436.5	7420.5	7420.5	7427.9	7419.2	7393.4	7356.7	7295.1	7149.0
17°	7172.3	7164.9	7157.5	7151.2	7141.7	7141.7	7145.2	7119.5	7083.7	7021.0	6885.9
15°	6987.9	6979.4	6983.1	6972.0	6974.6	6963.3	6957.2	6941.4	6906.9	6829.4	6704.0
13°	6822.1	6818.4	6824.6	6817.1	6819.7	6808.4	6795.1	6786.3	6759.4	6686.9	6573.8
11°	6716.4	6711.4	6708.8	6711.4	6710.3	6708.8	6694.3	6675.8	6640.2	6564.1	6464.5
9°	6591.0	6586.0	6588.6	6592.3	6591.0	6589.9	6580.1	6567.8	6539.5	6479.2	6400.5
7°	6529.6	6533.3	6529.6	6534.4	6534.4	6535.9	6545.6	6554.1	6567.8	6566.5	6497.7
5°	6496.4	6497.7	6497.7	6503.8	6509.9	6525.9	6562.8	6611.8	6677.1	6730.0	6669.7
3°	6503.8	6502.5	6509.9	6522.2	6541.9	6575.1	6641.5	6730.0	6847.9	6918.0	6862.6
1°	6570.2	6573.8	6597.3	6621.8	6651.1	6683.2	6739.8	6813.4	6942.5	7019.9	7085.0
0°	6630.5	6638.9	6648.9	6680.8	6701.6	6730.0	6765.4	6824.6	6941.4	7011.3	7110.7
-1°	6698.0	6690.6	6707.9	6722.7	6735.9	6757.0	6777.8	6820.8	6918.0	6973.3	7023.6
-3°	6739.8	6745.9	6748.3	6749.6	6765.4	6765.4	6766.7	6797.5	6849.2	6865.0	6764.3
-5°	6684.3	6686.9	6682.1	6683.2	6694.3	6691.9	6672.1	6686.9	6682.1	6632.9	6527.2
-7°	6562.8	6566.5	6559.1	6555.4	6562.8	6528.5	6494.0	6481.6	6435.0	6383.5	6302.2
-9°	6368.6	6384.4	6362.5	6359.9	6344.1	6314.6	6272.9	6254.3	6208.9	6164.6	6097.1
-11°	6098.4	6120.4	6106.9	6114.3	6111.9	6111.9	6088.5	6073.9	6027.1	5969.3	5898.0
-13°	5902.9	5916.6	5911.6	5914.0	5924.0	5939.8	5922.5	5910.3	5862.4	5802.2	5733.5
-15°	5761.7	5777.5	5776.2	5775.1	5784.9	5797.3	5783.8	5769.1	5721.1	5659.7	5581.0
-17°	5640.0	5648.6	5652.3	5648.6	5647.3	5647.3	5632.6	5616.7	5569.9	5503.5	5415.2
-19.5°	5318.0	5330.3	5332.9	5330.3	5327.9	5329.0	5334.0	5314.3	5283.7	5242.0	5178.0
-22.5°	5058.9	5061.3	5063.7	5066.2	5066.2	5068.6	5067.5	5052.6	5028.1	4998.6	4928.5
-25.5°	4958.2	4959.3	4960.4	4961.7	4955.6	4954.3	4939.6	4918.7	4886.8	4857.3	4787.2
-29°	4714.8	4720.8	4722.1	4717.2	4716.0	4703.7	4681.6	4649.7	4617.8	4589.5	4520.6
-33°	4416.2	4422.3	4421.0	4409.9	4408.8	4389.1	4362.2	4326.6	4288.2	4238.0	4159.5
-37.5°	4176.6	4177.7	4176.6	4168.0	4161.7	4145.8	4118.7	4082.0	4034.1	3978.8	3903.7
-42.5°	3815.4	3815.4	3796.7	3779.6	3763.7	3727.9	3710.8	3685.2	3661.7	3643.3	3557.2
-47.5°	2486.8	2480.9	2457.5	2471.0	2464.9	2454.9	2462.3	2452.7	2430.4	2404.6	2353.0
-55°	552.9	554.2	567.6	599.7	626.8	641.4	636.6	603.4	604.5	632.7	592.3
-65°	509.9	511.2	513.6	517.3	517.3	518.6	530.7	545.5	554.2	570.2	583.7
-75°	146.2	148.6	149.9	147.3	145.1	148.6	153.6	149.9	151.0	151.0	137.6
-85°	2.6	6.1	12.4	17.2	20.8	25.8	29.3	33.2	34.3	34.3	34.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.4	28.4	28.4	28.4	28.4	28.4	27.1	27.1	27.1	27.1	27.1
75°	17.2	19.7	23.4	33.2	34.3	33.2	24.5	25.8	27.1	25.8	27.1
65°	167.1	105.7	67.7	52.9	44.3	52.9	49.1	41.7	35.8	25.8	25.8
55°	1107.0	269.1	259.3	855.1	258.0	757.0	202.9	120.4	56.4	25.8	27.1
47.5°	3149.4	2979.8	2823.6	2633.3	2441.5	2317.4	1869.0	210.2	71.2	30.8	28.4
42.5°	3704.7	3517.9	3422.0	3241.5	3028.8	3035.1	2849.6	233.5	76.2	41.7	29.3
37.5°	5251.6	5060.0	4841.4	4631.2	4400.1	4349.8	4040.2	261.9	82.2	55.3	30.8
33°	7221.5	6870.0	6564.1	6291.3	5955.9	5715.0	4959.3	2119.7	104.4	68.8	31.9
29°	7822.3	7510.1	7215.2	6875.0	6602.1	6285.0	5522.1	2660.4	129.1	82.2	34.3
25.5°	7586.3	7337.0	7086.1	6807.3	6615.7	6401.8	5732.2	3030.1	152.5	94.6	36.9
22.5°	7206.8	6962.2	6759.4	6567.8	6448.6	6286.3	5610.5	3264.9	171.9	105.7	38.0
19.5°	6888.5	6667.2	6494.0	6355.1	6301.1	6106.9	5405.4	3449.1	194.2	115.4	40.6
17°	6653.7	6457.1	6313.4	6234.7	6181.8	5905.3	5255.5	3593.0	213.7	122.8	41.7
15°	6499.0	6325.6	6215.2	6157.2	6075.0	5739.5	5150.9	3701.0	230.9	127.8	41.7
13°	6401.8	6266.6	6184.4	6087.2	5938.5	5579.8	5065.0	3803.0	245.8	131.5	43.2
11°	6334.1	6236.0	6157.2	5990.2	5781.4	5472.9	5010.9	3892.8	256.7	133.9	43.2
9°	6296.1	6197.8	6087.2	5872.3	5660.8	5400.4	4992.5	3977.5	265.4	136.5	44.3
7°	6351.4	6216.3	6051.6	5807.2	5579.8	5379.6	4993.6	4042.7	270.4	137.6	44.3
5°	6449.7	6262.9	6052.9	5744.5	5518.3	5365.9	4996.2	4091.8	270.4	138.9	44.3
3°	6571.3	6312.2	6054.2	5681.8	5465.5	5350.1	4998.6	4122.6	271.5	138.9	44.3
1°	6711.4	6310.9	6029.4	5625.2	5416.5	5325.5	4988.8	4133.5	266.7	136.5	44.3
0°	6726.2	6285.0	5998.8	5595.7	5389.3	5309.3	4980.1	4135.0	265.4	135.2	44.3
-1°	6694.3	6242.1	5963.1	5566.4	5359.8	5291.1	4972.8	4133.5	265.4	133.9	44.3
-3°	6448.6	6132.7	5874.7	5502.4	5287.4	5240.7	4955.6	4115.2	265.4	130.2	44.3
-5°	6269.2	6013.6	5770.2	5415.2	5192.8	5154.6	4921.3	4079.4	266.7	127.8	43.2
-7°	6103.2	5877.1	5642.5	5305.8	5088.4	5045.2	4863.4	4026.7	265.4	126.5	43.2
-9°	5936.1	5737.2	5501.1	5192.8	4980.1	4911.3	4787.2	3951.6	261.9	124.1	43.2
-11°	5767.8	5583.5	5356.1	5074.7	4878.1	4787.2	4695.0	3857.0	256.7	122.8	41.7
-13°	5611.7	5428.6	5213.6	4966.7	4778.6	4672.9	4599.3	3745.3	250.6	120.4	40.6
-15°	5442.3	5257.9	5071.0	4859.7	4687.6	4558.7	4503.2	3618.8	240.8	119.1	39.3
-17°	5260.3	5074.7	4907.7	4739.3	4584.6	4454.2	4405.1	3476.2	230.9	118.0	39.3
-19.5°	5025.7	4861.0	4722.1	4593.0	4445.5	4326.6	4284.7	3272.3	215.0	114.2	38.0
-22.5°	4773.8	4609.1	4498.4	4400.1	4273.6	4188.8	4185.1	3022.7	192.9	110.6	35.8
-25.5°	4646.0	4508.4	4395.2	4258.9	4128.5	4088.1	4082.0	2756.1	173.4	104.4	34.3
-29°	4399.0	4287.1	4184.0	4030.4	3913.7	3919.7	3925.8	2399.8	158.4	97.0	31.9
-33°	4052.3	3960.3	3854.6	3709.7	3630.9	3648.3	3630.9	1938.9	152.5	84.8	30.8
-37.5°	3805.4	3702.1	3575.8	3425.9	3313.9	3316.5	3221.7	268.0	146.2	70.1	29.3
-42.5°	3446.7	3415.9	3250.1	3122.3	2933.1	2779.3	2473.6	261.9	141.3	52.9	28.4
-47.5°	2308.9	2272.0	2234.0	2152.9	2004.0	1751.0	1339.2	228.5	133.9	35.8	28.4
-55°	610.8	597.1	639.0	595.8	517.3	253.2	242.1	137.6	111.9	27.1	27.1
-65°	603.4	581.1	414.0	217.6	158.4	174.5	223.5	141.3	52.9	27.1	27.1
-75°	100.9	61.4	36.9	40.6	50.3	74.9	72.5	36.9	29.3	27.1	27.1
-85°	34.3	33.2	33.2	31.9	30.8	30.8	29.3	28.4	28.4	27.1	27.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	90°
90°	0.0
85°	0.0
75°	0.0
65°	0.0
55°	0.0
47.5°	0.0
42.5°	0.0
37.5°	0.0
33°	0.0
29°	0.0
25.5°	0.0
22.5°	0.0
19.5°	0.0
17°	0.0
15°	0.0
13°	0.0
11°	0.0
9°	0.0
7°	0.0
5°	0.0
3°	0.0
1°	0.0
0°	0.0
-1°	0.0
-3°	0.0
-5°	0.0
-7°	0.0
-9°	0.0
-11°	0.0
-13°	0.0
-15°	0.0
-17°	0.0
-19.5°	0.0
-22.5°	0.0
-25.5°	0.0
-29°	0.0
-33°	0.0
-37.5°	0.0
-42.5°	0.0
-47.5°	0.0
-55°	0.0
-65°	0.0
-75°	0.0
-85°	0.0
-90°	0.0

(END OF REPORT)