

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: INVUE

Report Number: P401641

Luminaire Tested: **ENV-SA1E-730-U-T3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1E-730-U-T3-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4922 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

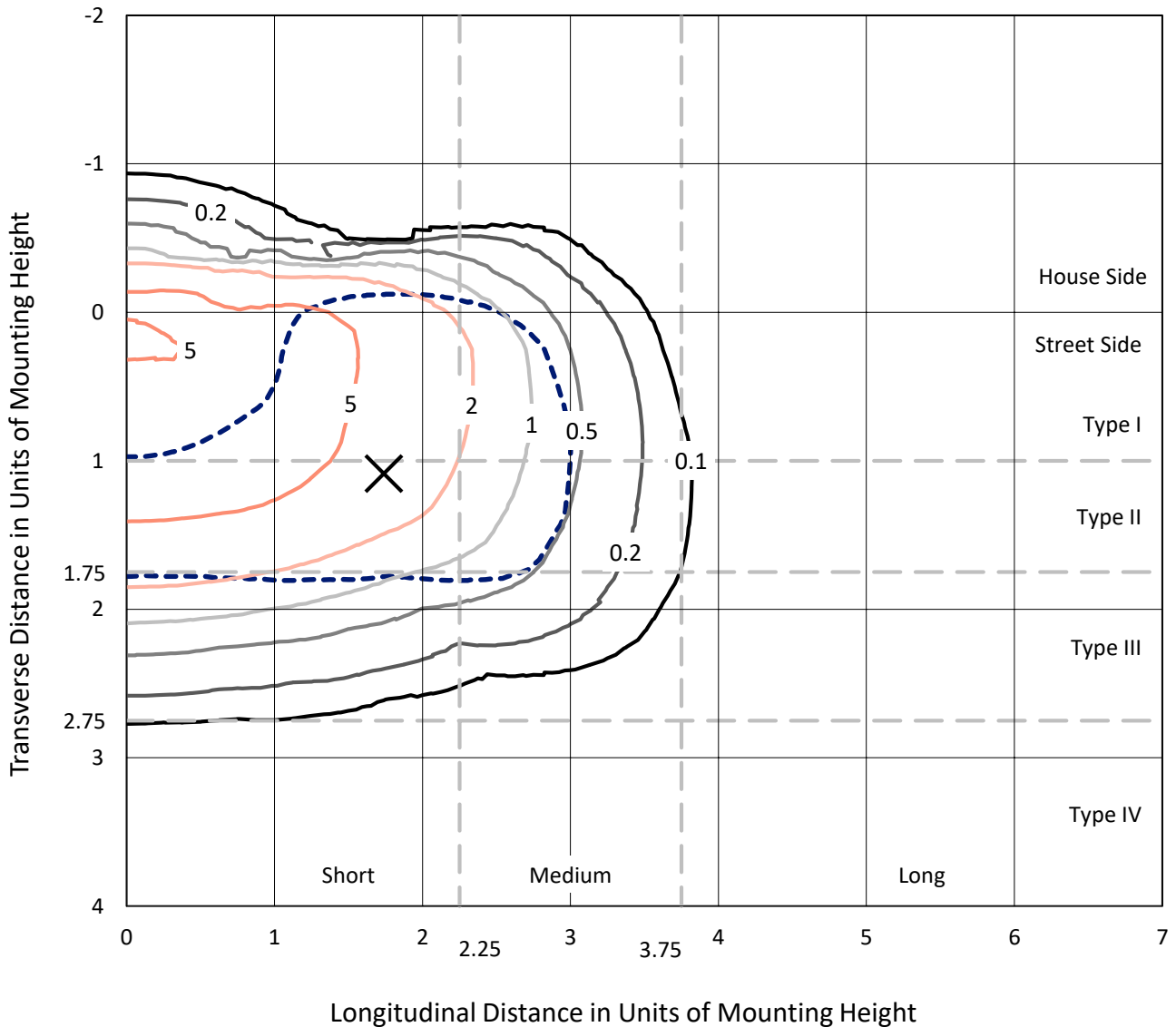
Input Watts (W): 57.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

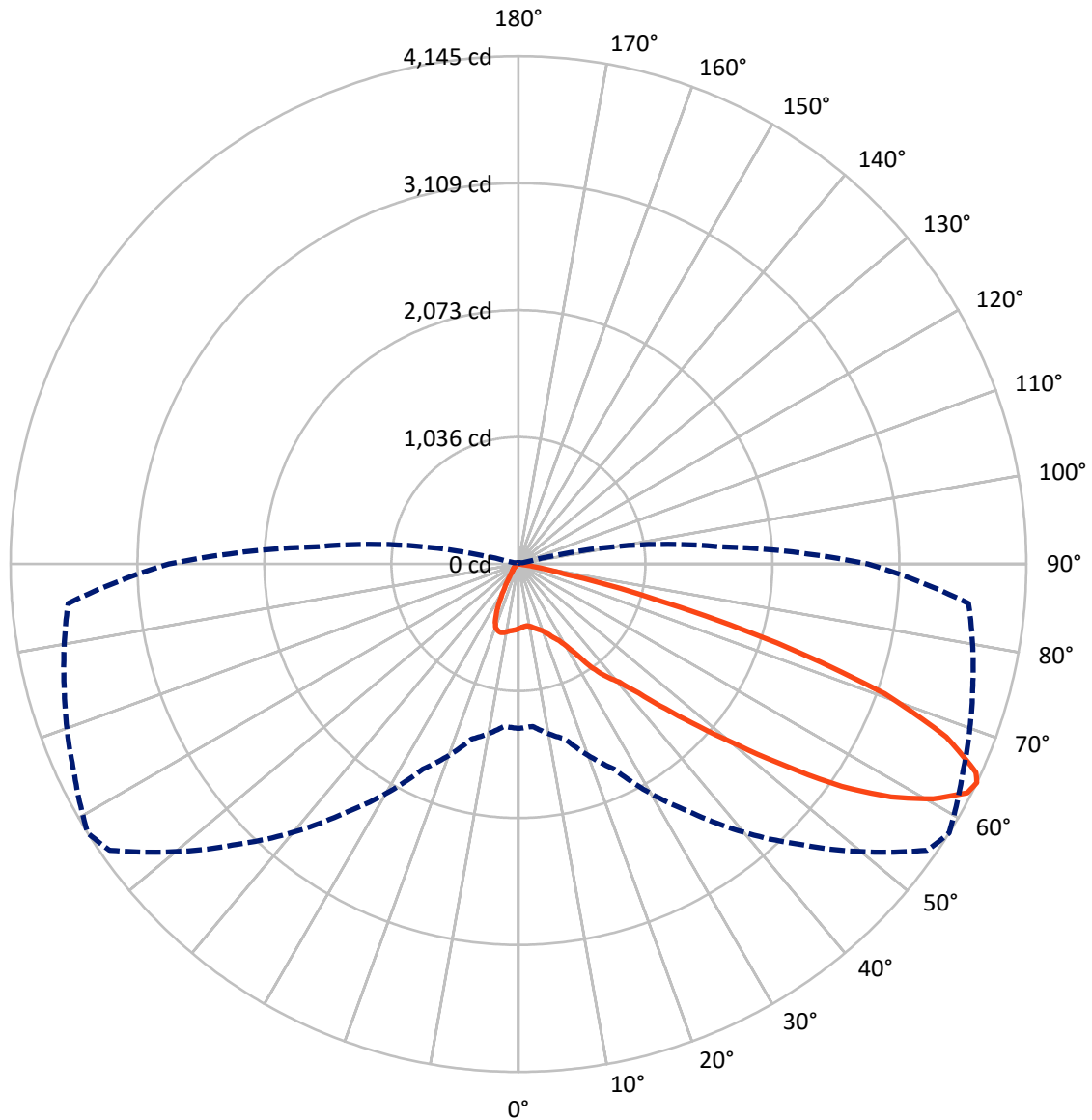


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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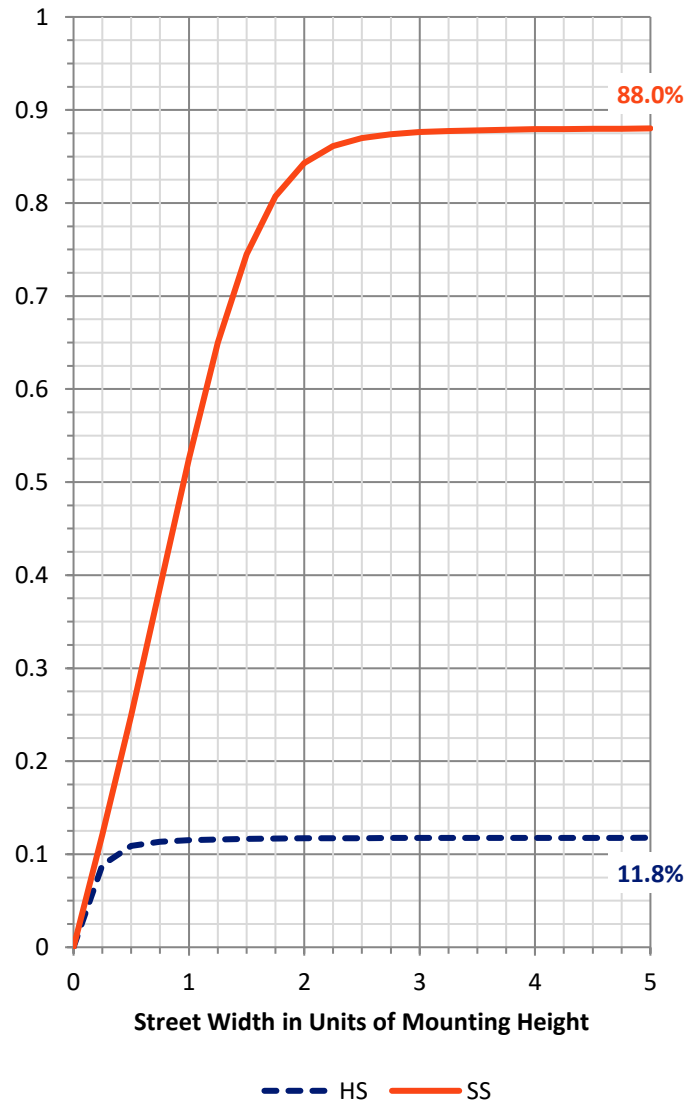
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	586.8	0.0	586.8
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	4335.2	0.0	4335.2
	% Fixture	88.1	0.0	88.1
Total	Lumens	4922.0	0.0	4922.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	1.0
10°-20°	145.2	3.0
20°-30°	261.0	5.3
30°-40°	457.4	9.3
40°-50°	836.3	17.0
50°-60°	1430.7	29.1
60°-70°	1387.9	28.2
70°-80°	343.8	7.0
80°-90°	9.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4922.0	100.0
0°-180°	4922.0	100.0



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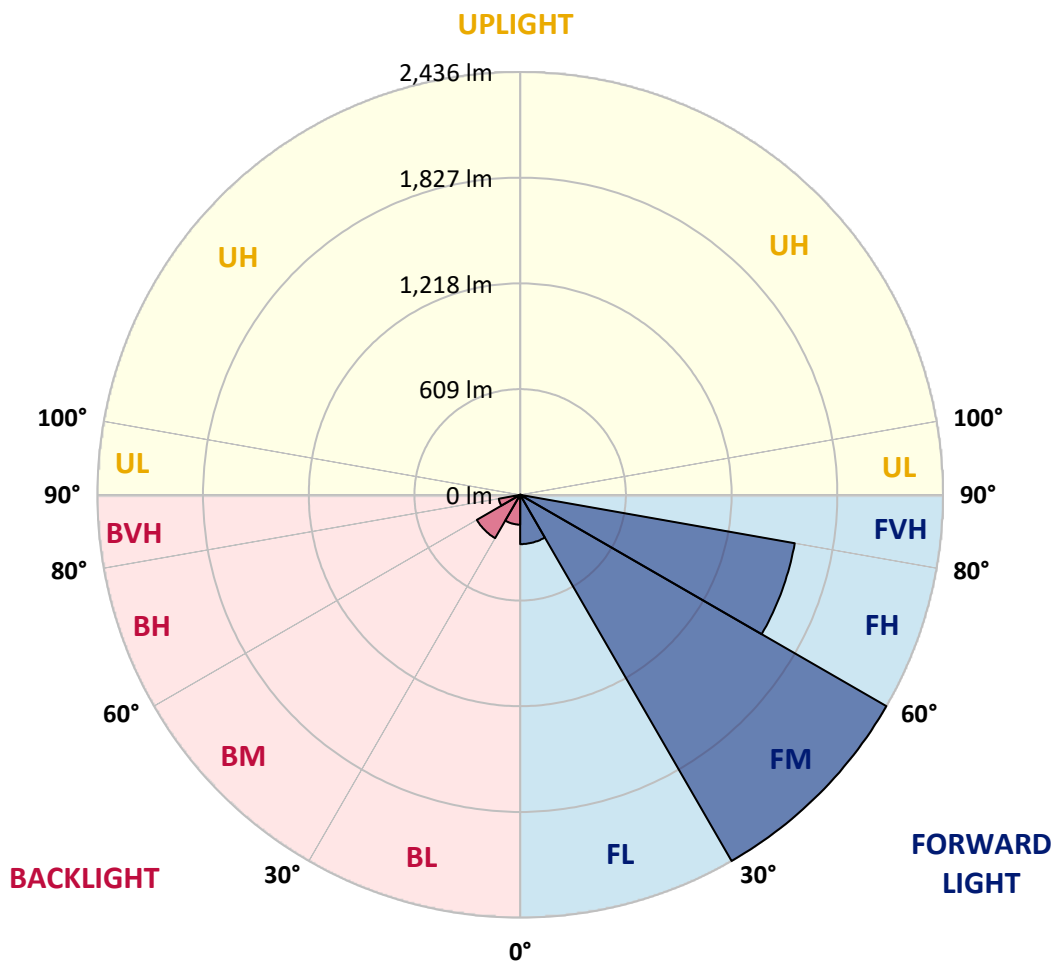
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	284.2	5.8			
FM	(30°-60°)	2436.3	49.5			
FH	(60°-80°)	1606.4	32.6			G1/1800
FVH	(80°-90°)	8.3	0.2			G0/10
BL	(0°-30°)	171.8	3.5	B1/500		
BM	(30°-60°)	288.2	5.9	B1/1000		
BH	(60°-80°)	125.3	2.5	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2
2.5°	505.4	505.4	507.2	508.1	510.8	513.6	517.2	518.1	519.9	524.5	526.3
5°	478.1	479.0	480.8	485.3	491.7	499.0	508.1	510.8	518.1	527.2	533.6
7.5°	467.1	468.0	470.8	476.2	484.4	495.4	506.3	509.9	519.9	534.5	543.6
10°	465.3	465.3	469.0	477.1	487.2	500.8	512.7	517.2	530.9	548.2	562.7
12.5°	465.3	465.3	469.9	479.9	491.7	509.0	525.4	531.8	547.3	569.1	587.3
15°	473.5	475.3	478.1	484.4	498.1	517.2	540.0	547.3	566.4	592.8	615.6
17.5°	531.8	530.0	520.9	512.7	509.9	526.3	553.6	563.7	591.9	625.6	650.2
20°	644.7	643.8	627.4	587.3	551.8	542.7	574.6	586.4	627.4	672.0	690.2
22.5°	781.3	785.8	760.3	706.6	633.8	587.3	605.5	621.9	674.7	728.5	739.4
25°	917.0	922.4	898.7	831.4	742.1	661.1	648.3	662.9	723.0	776.7	772.2
27.5°	1077.2	1072.7	1049.0	972.5	868.7	760.3	705.7	708.4	754.9	815.0	800.4
30°	1194.7	1188.3	1165.5	1113.6	1016.2	892.4	787.7	779.5	793.1	859.6	844.1
32.5°	1302.1	1306.7	1289.4	1220.2	1128.2	1028.0	910.6	888.7	883.3	939.7	914.2
35°	1408.7	1407.8	1401.4	1340.4	1250.2	1155.5	1057.2	1041.7	1039.9	1094.5	1025.3
37.5°	1536.2	1529.8	1517.9	1456.0	1384.1	1293.9	1189.2	1164.6	1160.1	1171.0	1090.0
40°	1672.7	1680.9	1661.8	1597.2	1518.9	1451.5	1304.9	1267.5	1236.6	1268.4	1216.5
42.5°	1875.8	1882.2	1848.5	1803.9	1702.8	1640.0	1491.5	1440.5	1426.0	1474.2	1416.0
45°	2130.8	2118.9	2096.2	2065.2	1981.4	1885.8	1731.0	1682.8	1667.3	1750.1	1654.5
47.5°	2329.3	2327.5	2328.4	2322.0	2309.2	2194.5	2010.6	1977.8	1962.3	2081.6	1976.0
50°	2454.9	2462.2	2493.2	2572.4	2630.7	2582.4	2366.6	2326.5	2314.7	2438.5	2295.6
52.5°	2549.6	2566.9	2618.8	2775.5	2962.1	2978.5	2800.0	2743.6	2716.3	2750.9	2552.4
55°	2597.9	2606.1	2685.3	2916.6	3208.9	3326.4	3251.7	3204.3	3094.2	3028.6	2853.8
57.5°	2485.0	2472.2	2608.8	2902.9	3336.4	3606.8	3638.7	3585.0	3408.3	3357.3	3219.8
60°	2189.0	2183.6	2337.5	2690.8	3225.3	3672.4	3925.5	3891.8	3729.7	3608.6	3479.3
62.5°	1670.0	1679.1	1842.1	2201.8	2829.2	3483.9	4084.9	4112.2	3940.1	3759.8	3671.5
64°	1341.3	1330.4	1479.7	1845.8	2482.2	3232.6	4073.0	4145.0	4003.8	3839.0	3688.8
65°	1126.4	1102.7	1245.7	1577.1	2189.0	3050.5	3989.3	4104.9	4008.4	3858.1	3625.9
67.5°	592.8	605.5	666.5	957.9	1477.9	2306.5	3592.3	3767.1	3806.2	3596.8	3159.7
70°	265.9	267.7	306.9	489.0	817.7	1496.1	2889.3	3172.5	3194.3	2954.8	2289.2
72.5°	88.3	89.2	135.7	195.8	343.3	693.0	1951.4	2209.1	2256.4	1915.9	1242.0
75°	54.6	56.5	71.9	105.6	159.4	242.2	988.9	1163.7	1173.7	849.6	451.6
77.5°	34.6	36.4	43.7	62.8	87.4	92.0	324.2	392.5	444.4	306.0	140.2
80°	21.9	21.9	28.2	38.2	45.5	39.2	88.3	116.6	140.2	102.9	47.4
82.5°	8.2	8.2	14.6	20.9	19.1	13.7	23.7	31.0	53.7	51.0	22.8
85°	0.0	0.0	0.9	1.8	0.9	1.8	4.6	6.4	10.0	14.6	7.3
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	1.8	1.8	1.8	1.8	1.8
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°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2
2.5°	529.0	530.9	534.5	535.4	536.3	533.6	536.3	533.6	535.4	535.4	535.4
5°	537.2	540.0	542.7	543.6	542.7	536.3	538.2	533.6	532.7	532.7	532.7
7.5°	548.2	550.9	555.5	552.7	547.3	538.2	537.2	530.9	528.1	528.1	529.0
10°	568.2	570.9	572.8	567.3	556.4	542.7	532.7	519.0	512.7	509.9	509.9
12.5°	593.7	596.4	595.5	586.4	566.4	538.2	509.9	483.5	464.4	457.1	449.8
15°	621.0	624.7	622.8	603.7	565.5	515.4	460.8	398.8	360.6	336.0	331.5
17.5°	652.9	656.5	647.4	612.8	551.8	467.1	363.3	279.5	224.0	203.1	202.1
20°	692.0	690.2	668.4	613.7	527.2	377.9	243.1	174.8	151.2	145.7	144.8
22.5°	736.7	728.5	688.4	608.3	459.8	256.8	156.6	138.4	135.7	133.9	133.9
25°	762.2	747.6	695.7	592.8	354.2	163.9	132.9	129.3	125.7	122.0	121.1
27.5°	782.2	760.3	698.4	541.8	235.8	125.7	120.2	116.6	111.1	105.6	104.7
30°	818.6	785.8	703.0	452.6	144.8	107.4	104.7	98.3	90.1	84.7	82.9
32.5°	884.2	836.8	721.2	338.7	105.6	94.7	87.4	79.2	70.1	64.7	64.7
35°	954.3	885.1	730.3	223.1	92.0	82.9	71.9	61.9	53.7	49.2	48.3
37.5°	1018.9	954.3	727.6	136.6	82.0	71.0	59.2	49.2	41.9	38.2	38.2
40°	1151.0	1075.4	690.2	93.8	71.9	60.1	48.3	38.2	33.7	31.0	31.0
42.5°	1339.5	1208.3	607.4	80.1	62.8	50.1	38.2	31.9	28.2	25.5	25.5
45°	1550.7	1354.9	484.4	71.9	54.6	41.9	31.9	26.4	22.8	21.9	21.9
47.5°	1827.5	1532.5	356.0	64.7	47.4	35.5	26.4	21.9	20.0	19.1	19.1
50°	2069.8	1676.4	243.1	56.5	41.9	30.0	22.8	20.0	18.2	17.3	17.3
52.5°	2290.1	1776.5	160.3	49.2	37.3	24.6	20.9	18.2	17.3	16.4	16.4
55°	2549.6	1853.0	108.4	42.8	32.8	22.8	20.0	18.2	16.4	16.4	15.5
57.5°	2770.0	1898.6	77.4	36.4	29.1	20.9	19.1	17.3	15.5	14.6	14.6
60°	2898.4	1844.8	56.5	31.9	25.5	19.1	17.3	15.5	14.6	13.7	13.7
62.5°	2933.9	1741.0	43.7	27.3	21.9	17.3	15.5	13.7	12.7	11.8	11.8
64°	2851.9	1629.9	37.3	23.7	19.1	15.5	14.6	12.7	10.9	9.1	9.1
65°	2736.3	1527.0	33.7	21.9	17.3	14.6	13.7	11.8	9.1	7.3	7.3
67.5°	2280.1	1217.4	27.3	18.2	13.7	12.7	10.9	9.1	6.4	4.6	4.6
70°	1619.0	851.4	20.9	14.6	11.8	11.8	10.0	7.3	3.6	1.8	1.8
72.5°	856.9	442.5	17.3	11.8	9.1	9.1	8.2	4.6	2.7	1.8	0.9
75°	299.6	145.7	14.6	10.0	8.2	6.4	5.5	3.6	2.7	1.8	0.9
77.5°	91.1	48.3	12.7	10.0	7.3	5.5	6.4	5.5	5.5	3.6	2.7
80°	29.1	17.3	7.3	6.4	7.3	7.3	6.4	5.5	6.4	4.6	3.6
82.5°	10.9	6.4	2.7	3.6	3.6	4.6	4.6	3.6	2.7	0.9	0.0
85°	3.6	2.7	1.8	2.7	2.7	2.7	1.8	1.8	0.9	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)