

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: STREETWORKS

Report Number: P254198

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T2U-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-17-90°)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-70-D-U-T2U-7030-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED TO PROVIDE RELEVANT COMPARISON TO
COMPETITIVE OFFERINGS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4854.4 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 74
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: 28.75 FT

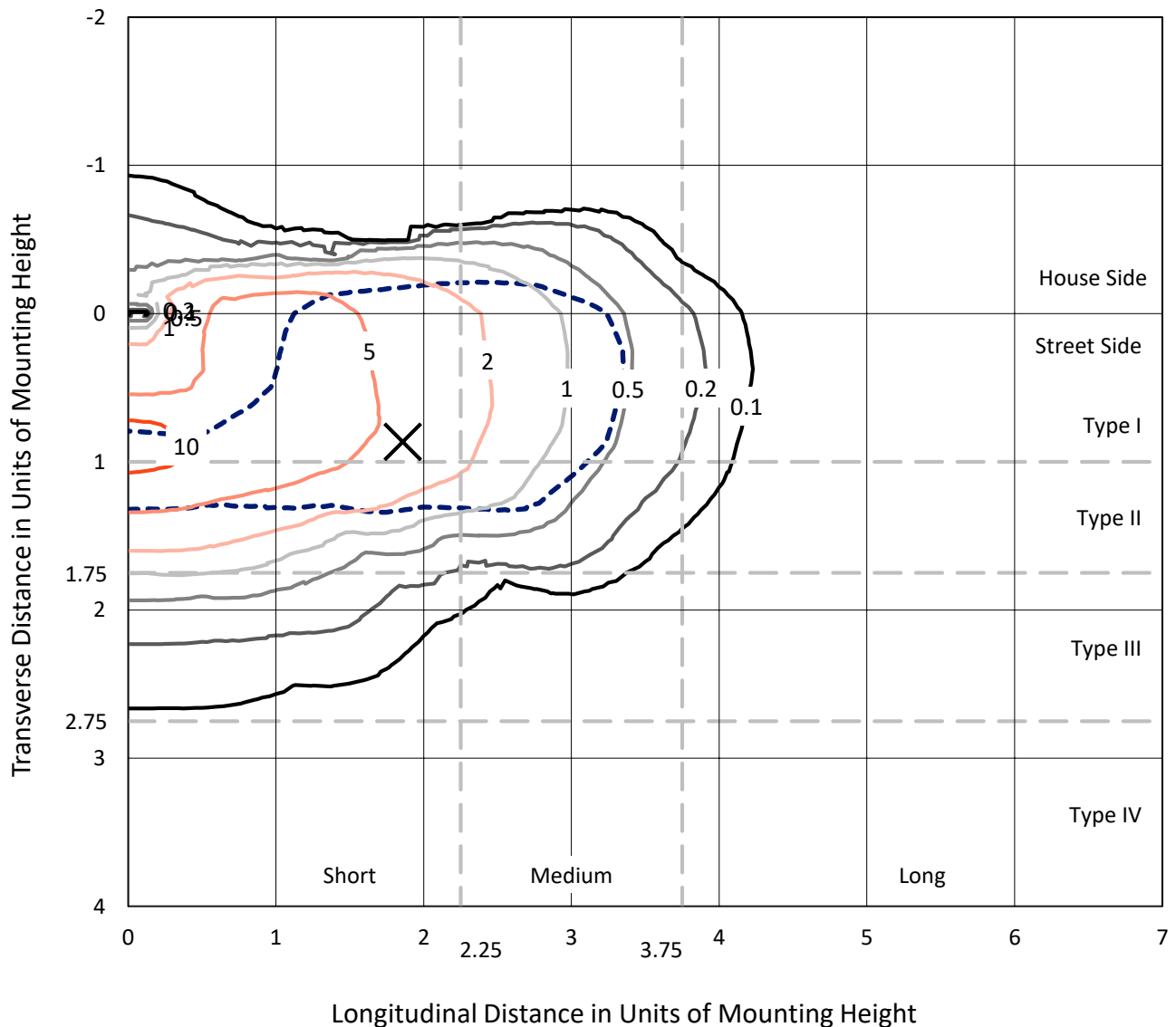


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

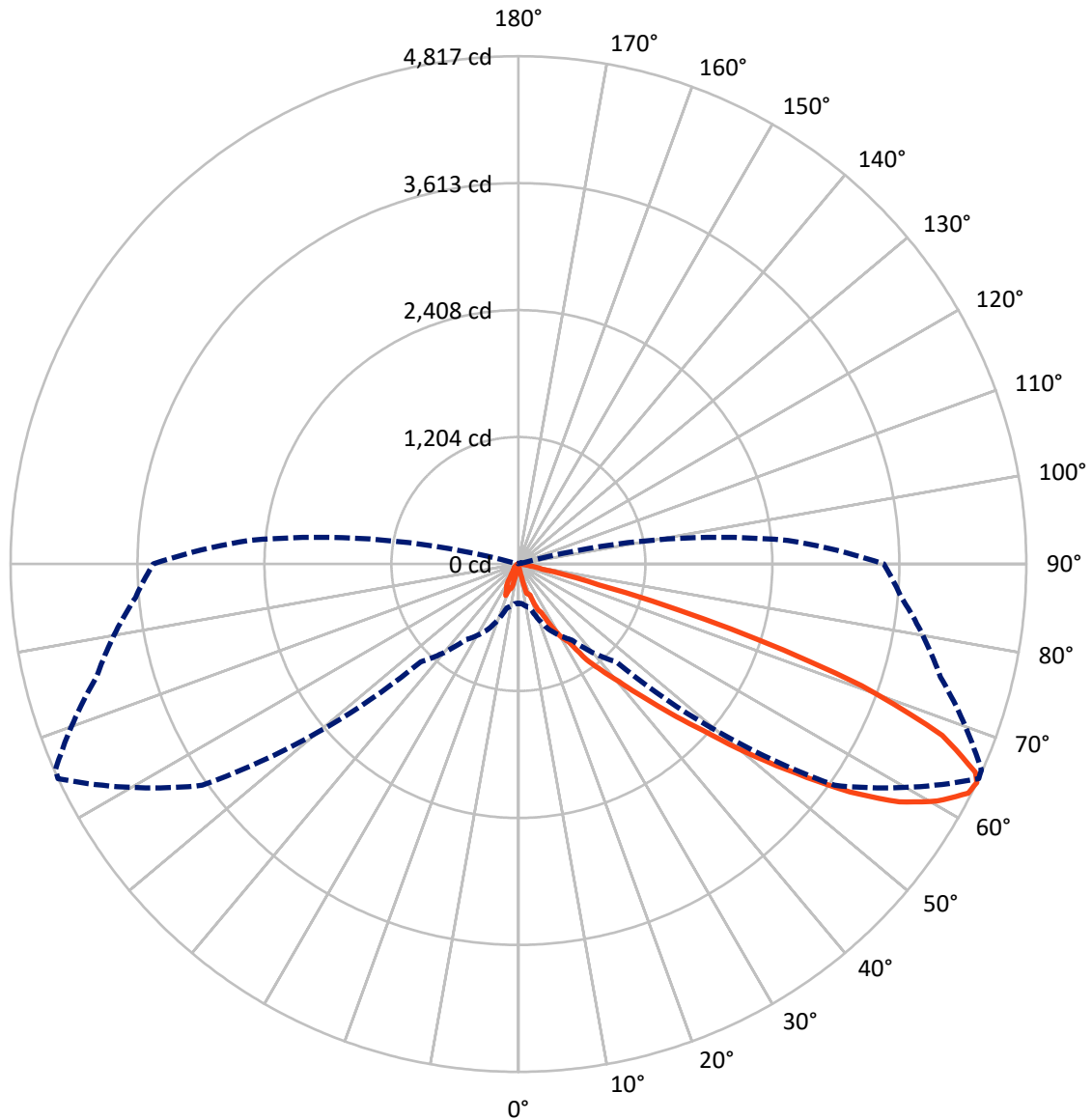


Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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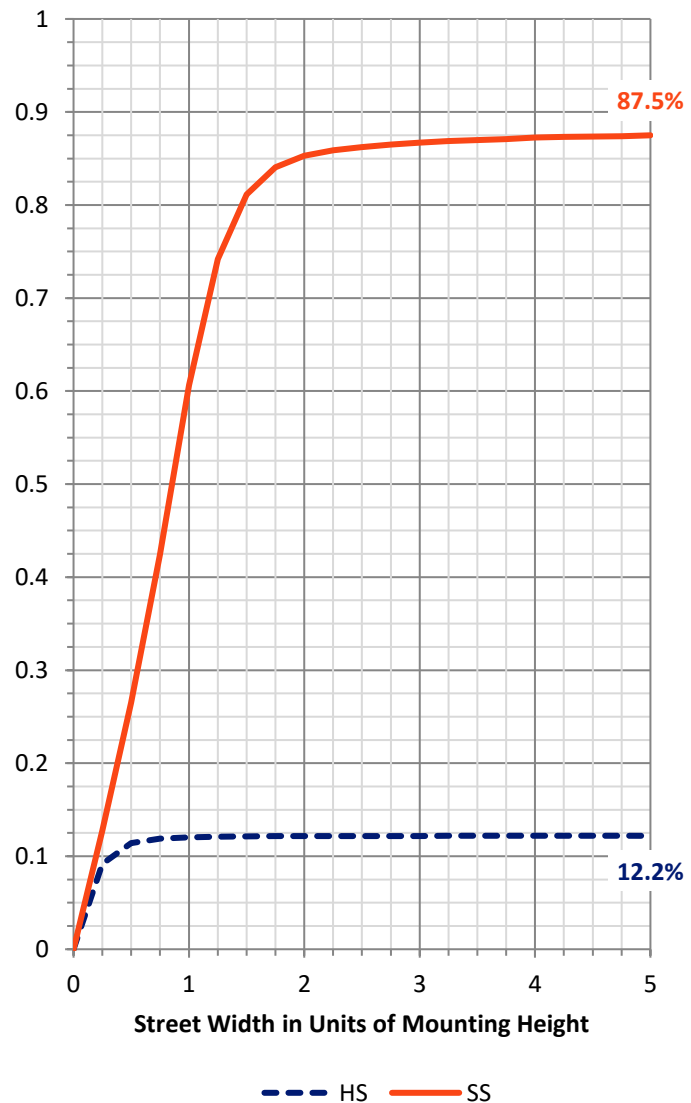
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	598.4	0.0	598.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	4256.0	0.0	4256.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	4854.4	0.0	4854.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.1
10°-20°	48.5	1.0
20°-30°	164.7	3.4
30°-40°	462.3	9.5
40°-50°	1073.4	22.1
50°-60°	1500.3	30.9
60°-70°	1183.5	24.4
70°-80°	396.4	8.2
80°-90°	21.6	0.4
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°	4854.4	100.0
0°-180°	4854.4	100.0

Coefficient of Utilization



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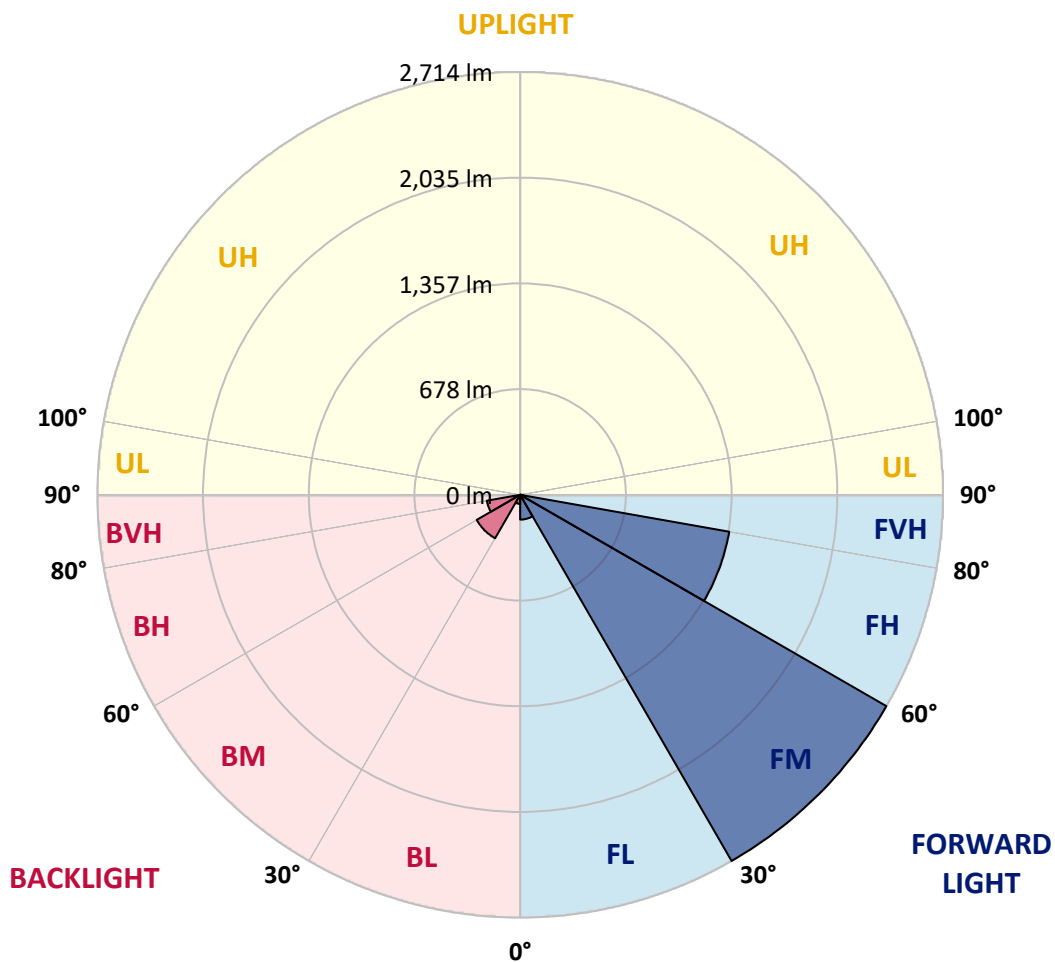
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	159.1	3.3			
FM	(30°-60°)	2713.8	55.9			
FH	(60°-80°)	1362.5	28.1			G1/1800
FVH	(80°-90°)	20.5	0.4			G1/100
BL	(0°-30°)	57.9	1.2	B0/110		
BM	(30°-60°)	322.1	6.6	B1/1000		
BH	(60°-80°)	217.3	4.5	B1/500		G1/500
BVH	(80°-90°)	1.1	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	95.6	39.7	29.9	18.7	5.7	1.6	0.8	0.0	0.0	0.0	0.0
7.5°	137.7	136.9	136.9	138.5	140.2	128.1	9.8	0.8	0.0	0.0	0.0
10°	131.3	130.4	130.4	132.9	135.4	137.7	138.5	4.9	3.3	0.0	0.0
12.5°	262.6	260.9	251.2	149.9	135.4	136.1	139.5	94.8	56.7	21.1	100.5
15°	258.5	257.8	258.5	264.2	264.2	141.1	210.7	284.4	283.6	184.7	216.4
17.5°	265.0	260.9	259.3	263.5	269.9	312.1	308.7	299.1	299.8	196.1	222.1
20°	381.7	382.5	388.2	296.6	279.6	394.7	350.0	314.4	319.2	376.8	408.4
22.5°	388.2	387.4	394.7	408.4	481.4	405.2	469.2	471.7	482.2	493.6	438.4
25°	536.5	535.7	438.4	429.5	514.6	454.6	561.6	510.6	519.4	521.0	537.2
27.5°	606.9	599.8	604.5	606.9	542.9	638.6	581.8	674.2	645.8	713.9	681.6
30°	773.1	750.4	694.5	703.4	671.8	680.6	705.0	805.5	778.8	756.8	744.7
32.5°	1130.5	1116.7	1061.6	876.0	815.2	740.7	855.7	881.7	884.9	1035.7	1032.4
35°	1651.6	1554.3	1359.8	1222.8	976.4	967.6	948.9	1114.2	1122.3	1179.9	1179.1
37.5°	2324.9	2305.5	2029.2	1576.2	1290.2	1134.5	1180.8	1278.0	1247.2	1367.9	1369.6
40°	2735.0	2716.4	2492.8	2102.1	1648.2	1426.3	1370.3	1464.3	1412.5	1621.5	1581.1
42.5°	3030.8	3011.3	2848.5	2485.4	2171.7	1920.6	1668.6	1708.3	1675.1	1862.3	1844.4
45°	3207.5	3179.9	3110.2	2802.3	2602.1	2495.9	2098.9	2012.1	2020.2	2164.5	2145.1
47.5°	3197.7	3155.6	3173.4	2985.4	2966.0	3025.2	2634.6	2357.4	2449.7	2526.7	2476.5
50°	2944.9	2911.6	3012.2	3037.3	3204.2	3442.4	3201.8	2816.8	2932.7	2884.1	2779.5
52.5°	2476.5	2483.0	2628.9	2799.0	3245.5	3730.1	3746.4	3297.5	3454.7	3207.5	3055.1
55°	1980.6	1998.4	2158.0	2363.9	2992.7	3824.2	4201.0	3814.5	3951.4	3474.1	3254.5
57.5°	1456.2	1484.7	1684.8	1859.8	2461.9	3584.2	4425.4	4258.5	4340.4	3703.5	3410.8
60°	863.0	878.5	1144.3	1397.9	1783.6	2873.6	4416.5	4564.0	4591.6	3940.9	3535.6
62.5°	509.7	517.8	606.9	943.2	1175.1	1884.0	4080.2	4786.8	4778.8	4092.5	3621.5
64°	371.9	377.6	432.7	684.7	878.5	1311.9	3658.9	4816.8	4807.1	4143.4	3645.9
65°	311.2	316.1	355.0	540.5	731.0	1003.2	3191.3	4763.3	4756.9	4169.4	3644.3
67.5°	249.5	250.4	261.7	316.9	497.5	526.7	1847.7	4336.3	4316.9	4196.1	3584.2
70°	223.7	226.9	247.2	249.5	363.9	346.1	649.9	3453.8	3411.6	3983.8	3445.0
72.5°	177.4	182.4	214.7	244.7	262.6	259.3	296.6	2106.2	2123.1	2927.0	2887.4
75°	124.0	128.8	162.0	202.5	207.5	189.7	213.9	790.9	780.4	1445.7	1679.1
77.5°	77.0	79.4	101.3	145.9	192.9	125.6	149.1	229.3	245.5	448.2	458.7
80°	51.1	51.9	64.0	96.4	133.8	113.4	89.1	116.0	118.3	141.1	69.7
82.5°	28.4	29.2	40.5	60.7	80.2	100.5	57.6	69.7	73.8	87.5	37.2
85°	9.8	10.5	21.1	34.1	48.6	48.6	37.2	42.2	42.9	55.0	19.4
87.5°	0.0	0.0	4.9	9.0	8.0	3.3	8.0	6.4	5.7	9.0	3.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.8	0.0	0.0	0.0	0.0	102.1	112.6	113.4	115.0
10°	0.0	0.0	0.8	0.8	0.0	108.6	115.0	112.6	107.0	105.3	103.7
12.5°	103.7	99.7	13.7	3.3	91.6	113.4	102.1	87.5	73.8	69.7	66.4
15°	213.9	211.5	188.8	207.5	128.8	97.2	72.1	77.8	65.7	61.6	60.0
17.5°	217.2	213.9	201.8	243.9	200.9	98.9	66.4	53.5	48.6	47.0	46.2
20°	412.5	400.3	293.4	239.9	153.9	100.5	51.1	42.9	39.7	43.8	46.2
22.5°	424.6	410.9	354.1	321.8	128.8	65.7	48.6	47.0	49.3	47.0	47.0
25°	535.7	495.2	389.0	264.2	114.2	58.4	55.0	42.9	39.7	38.1	38.1
27.5°	665.3	634.5	537.2	248.0	77.0	61.6	47.8	37.2	41.3	41.3	41.3
30°	711.5	668.5	542.9	217.2	68.1	55.9	40.5	40.5	36.5	34.9	34.9
32.5°	1021.9	959.6	697.0	152.3	61.6	47.0	40.5	34.1	33.3	35.6	35.6
35°	1138.6	1065.6	679.0	112.6	54.3	42.9	34.9	33.3	31.5	31.5	31.5
37.5°	1294.1	1208.3	623.3	83.5	51.1	36.5	30.8	29.2	29.9	31.5	32.4
40°	1497.6	1393.8	577.8	68.9	43.8	31.5	27.6	28.4	28.4	28.4	28.4
42.5°	1737.4	1594.0	510.6	61.6	37.2	28.4	25.1	25.1	25.9	25.9	25.9
45°	2013.0	1812.8	416.5	54.3	32.4	24.4	22.7	22.7	22.7	21.9	22.7
47.5°	2304.8	2049.4	316.1	47.8	27.6	21.9	20.2	19.4	19.4	18.7	19.4
50°	2594.8	2269.9	231.0	41.3	24.4	19.4	17.1	17.1	17.1	16.2	16.2
52.5°	2826.5	2419.0	163.7	35.6	21.1	17.1	14.6	13.7	13.7	13.0	13.0
55°	3021.0	2508.1	119.9	29.9	18.7	14.6	12.1	11.4	11.4	10.5	11.4
57.5°	3171.0	2564.0	90.8	24.4	16.2	12.1	9.8	9.0	9.0	9.0	9.0
60°	3297.5	2582.7	69.7	20.2	13.7	9.8	8.0	7.3	7.3	6.4	7.3
62.5°	3414.9	2577.8	57.6	17.8	12.1	8.0	6.4	5.7	4.9	4.1	4.9
64°	3465.1	2564.9	51.9	15.4	11.4	7.3	5.7	4.9	4.1	2.4	3.3
65°	3486.3	2544.5	47.8	13.7	10.5	6.4	5.7	4.9	2.4	1.6	2.4
67.5°	3468.4	2440.0	37.2	12.1	8.0	4.9	4.1	3.3	0.8	0.8	1.6
70°	3269.8	2218.0	28.4	10.5	7.3	4.1	3.3	2.4	1.6	0.8	1.6
72.5°	2568.0	1594.8	21.9	8.0	5.7	2.4	3.3	2.4	1.6	0.8	0.0
75°	1377.6	598.8	16.2	6.4	4.9	2.4	2.4	1.6	0.8	0.8	0.0
77.5°	355.0	188.8	11.4	4.1	4.1	1.6	1.6	1.6	0.8	0.8	0.0
80°	55.0	26.8	4.9	3.3	2.4	0.8	1.6	0.8	0.8	1.6	0.0
82.5°	22.7	10.5	3.3	2.4	2.4	0.0	1.6	0.8	0.8	0.8	0.0
85°	5.7	4.1	2.4	1.6	1.6	0.0	0.8	0.0	0.8	0.8	0.0
87.5°	0.8	1.6	1.6	1.6	1.6	0.0	0.8	0.0	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)