

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: P254199

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T2U-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254199  
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-AF24-80-D-U-T2U-7030-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA 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: 5306.7 lumens  
Efficiency: N/A  
Efficacy: 63.9 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): 83  
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

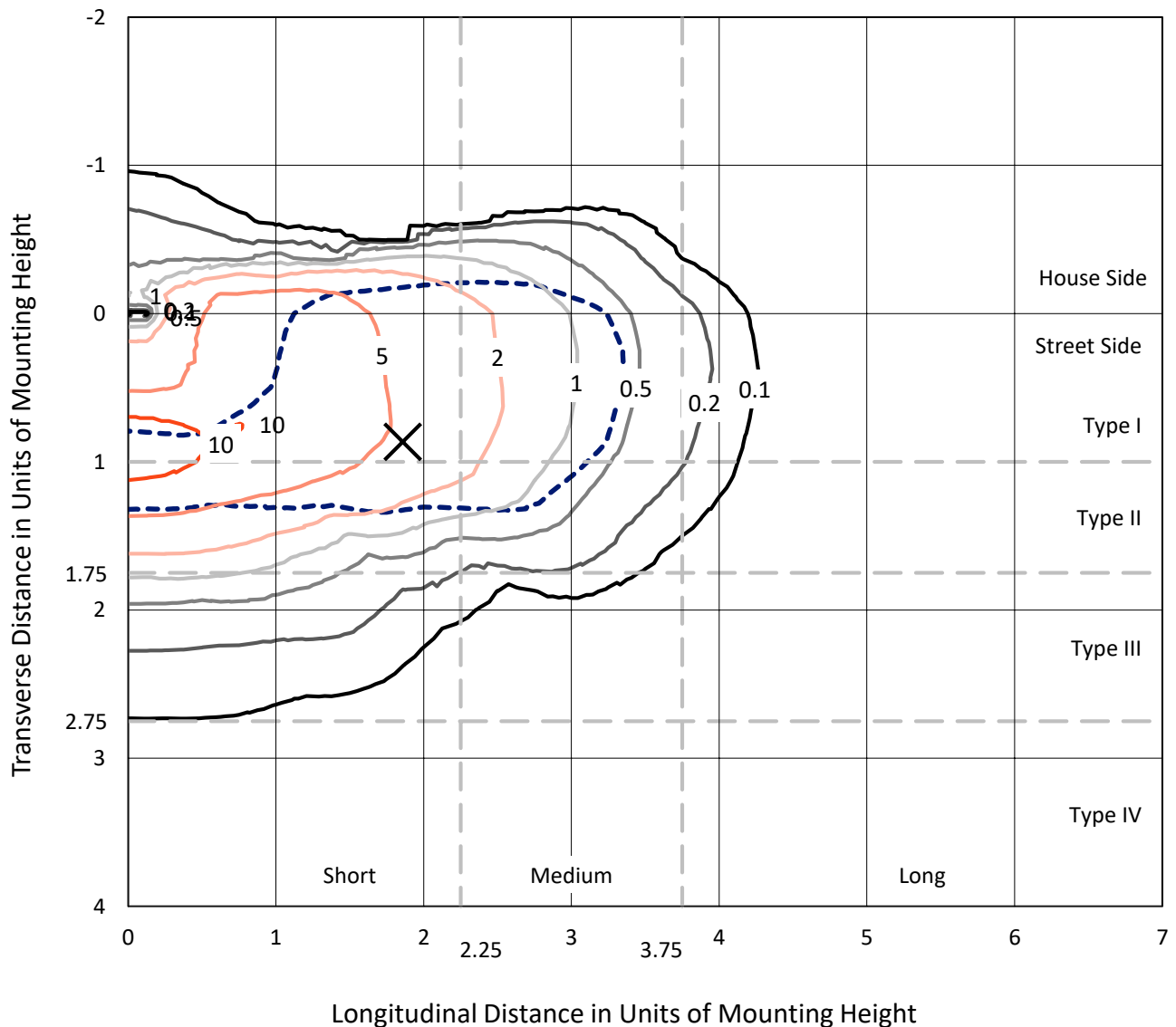


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

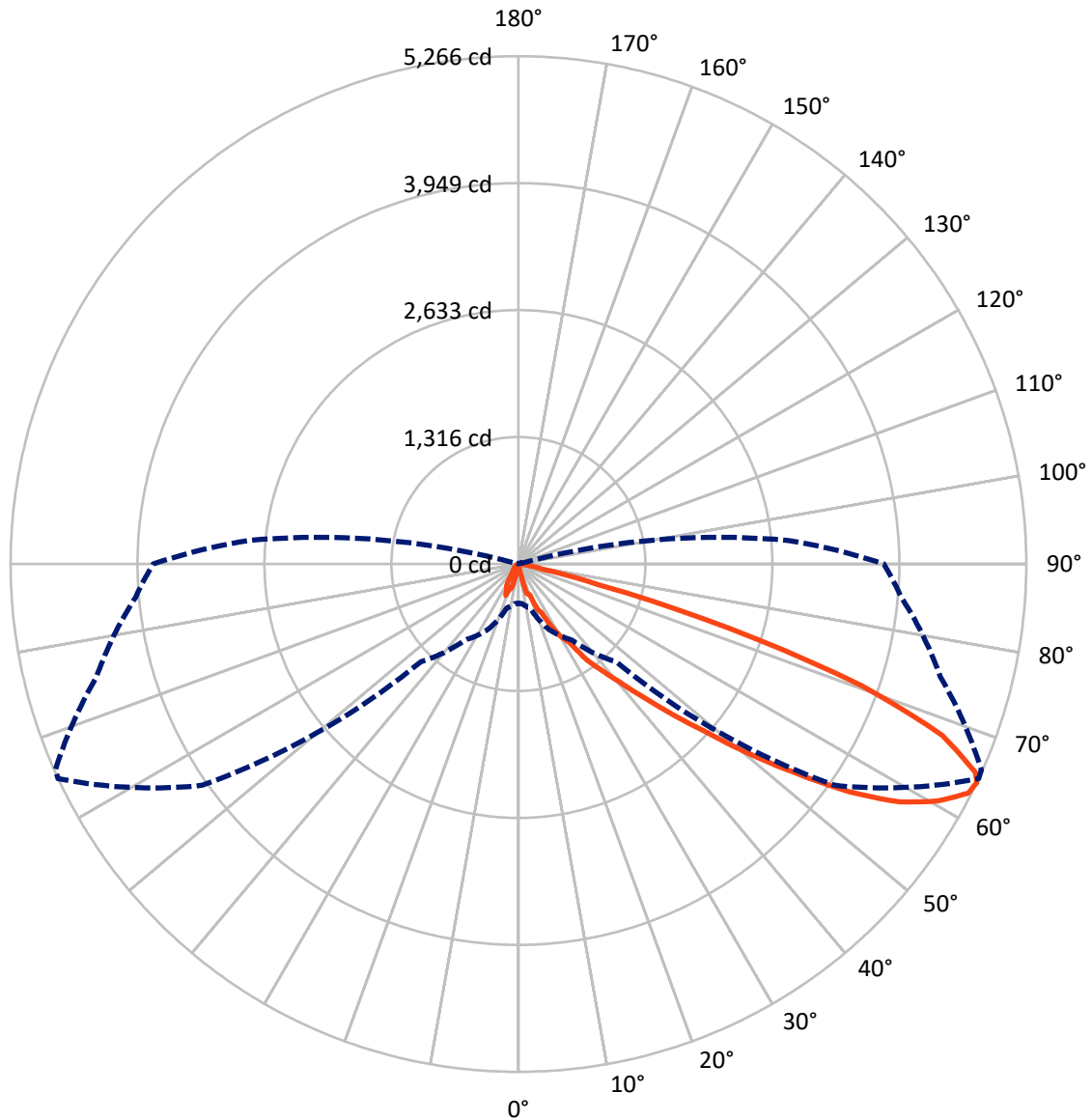


Based on 10 foot mounting height. Maximum calculated value = 13.4 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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



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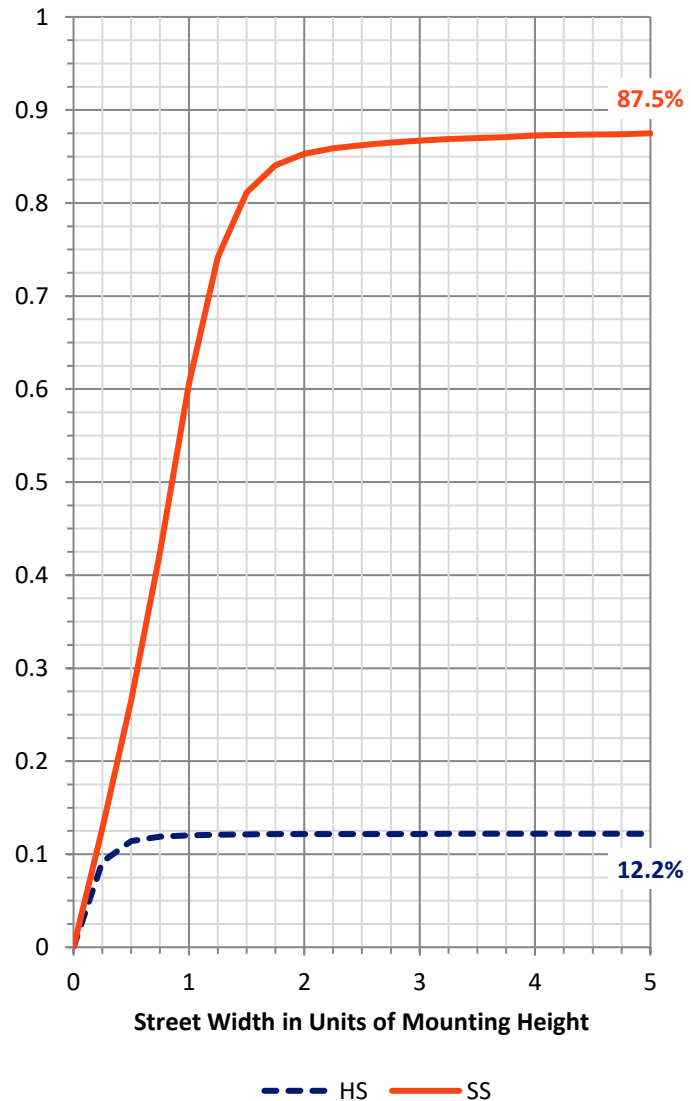
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	654.2	0.0	654.2
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	4652.5	0.0	4652.5
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	5306.7	0.0	5306.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.1	0.1
10°-20°	53.0	1.0
20°-30°	180.1	3.4
30°-40°	505.3	9.5
40°-50°	1173.4	22.1
50°-60°	1640.1	30.9
60°-70°	1293.8	24.4
70°-80°	433.3	8.2
80°-90°	23.6	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°	5306.7	100.0
0°-180°	5306.7	100.0

**Coefficient of Utilization**



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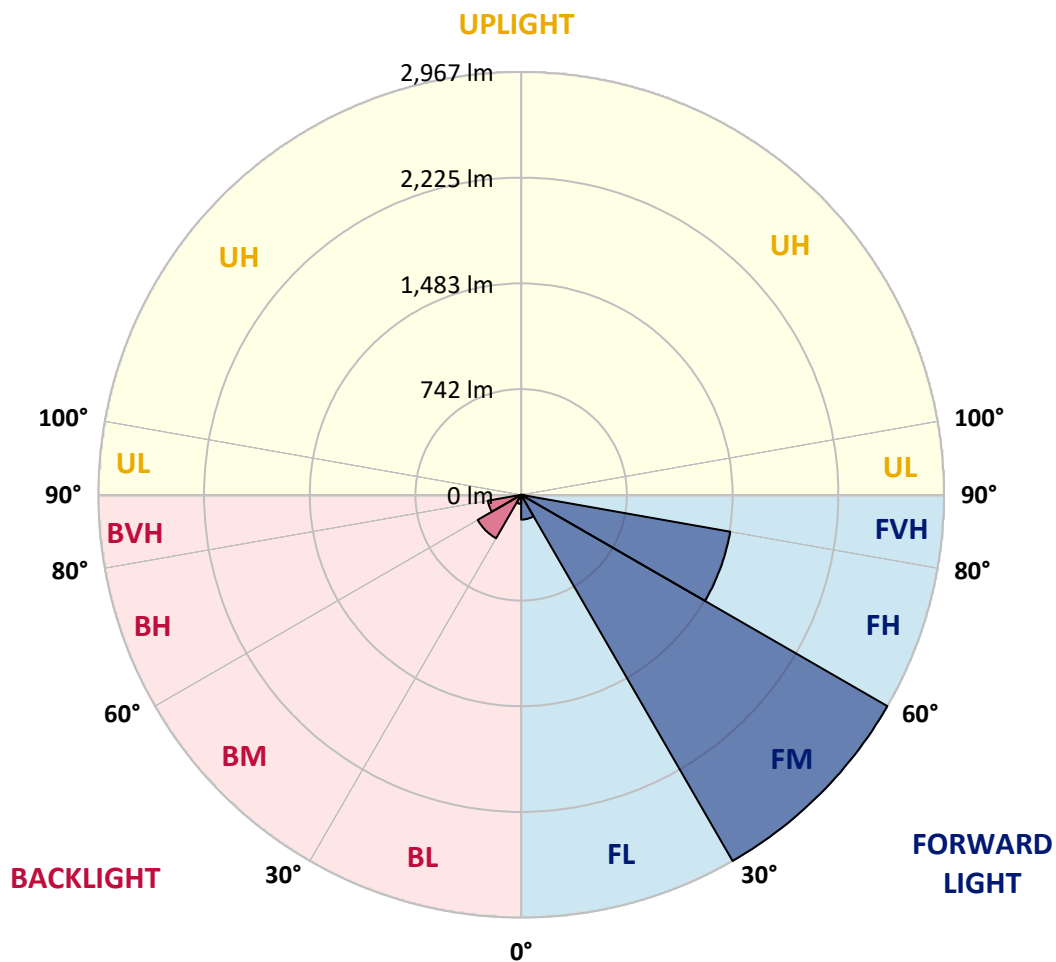
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	173.9	3.3			
FM (30°-60°)	2966.7	55.9			
FH (60°-80°)	1489.5	28.1			G1/1800
FVH (80°-90°)	22.5	0.4			G1/100
BL (0°-30°)	63.3	1.2	B0/110		
BM (30°-60°)	352.1	6.6	B1/1000		
BH (60°-80°)	237.6	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°	104.6	43.3	32.8	20.3	6.2	1.7	0.9	0.0	0.0	0.0	0.0
7.5°	150.6	149.6	149.6	151.5	153.3	140.0	10.6	0.9	0.0	0.0	0.0
10°	143.5	142.6	142.6	145.4	147.9	150.6	151.5	5.4	3.5	0.0	0.0
12.5°	287.1	285.2	274.7	163.9	147.9	148.8	152.4	103.7	62.1	23.1	109.8
15°	282.6	281.7	282.6	288.8	288.8	154.2	230.3	311.0	310.1	202.0	236.5
17.5°	289.6	285.2	283.5	287.9	295.0	341.1	337.5	326.9	327.8	214.3	242.8
20°	417.3	418.1	424.4	324.3	305.6	431.5	382.7	343.7	349.1	411.9	446.5
22.5°	424.4	423.5	431.5	446.5	526.2	442.9	513.0	515.6	527.0	539.5	479.2
25°	586.5	585.5	479.2	469.5	562.5	497.0	613.9	558.1	567.8	569.6	587.4
27.5°	663.5	655.5	660.9	663.5	593.5	698.0	636.1	737.1	706.1	780.4	745.0
30°	845.1	820.3	759.3	768.9	734.4	744.2	770.8	880.5	851.3	827.4	814.1
32.5°	1235.8	1220.8	1160.6	957.6	891.2	809.7	935.5	963.8	967.4	1132.2	1128.6
35°	1805.4	1699.1	1486.5	1336.8	1067.5	1057.7	1037.4	1218.1	1227.0	1289.8	1288.9
37.5°	2541.6	2520.3	2218.3	1723.0	1410.3	1240.2	1290.7	1397.0	1363.3	1495.3	1497.2
40°	2989.9	2969.4	2724.9	2297.9	1801.9	1559.1	1498.1	1600.7	1544.1	1772.6	1728.4
42.5°	3313.2	3292.0	3113.9	2717.0	2374.2	2099.5	1824.1	1867.5	1831.0	2035.7	2016.3
45°	3506.3	3476.2	3400.0	3063.4	2844.6	2728.5	2294.5	2199.6	2208.4	2366.2	2344.9
47.5°	3495.6	3449.7	3469.1	3263.6	3242.4	3307.0	2880.0	2577.0	2678.1	2762.2	2707.2
50°	3219.4	3182.9	3292.8	3320.3	3502.8	3763.2	3500.1	3079.4	3206.0	3152.9	3038.6
52.5°	2707.2	2714.3	2873.8	3059.8	3547.9	4077.7	4095.5	3604.7	3776.5	3506.3	3339.7
55°	2165.1	2184.6	2359.1	2584.1	3271.5	4180.5	4592.3	4169.9	4319.6	3797.8	3557.7
57.5°	1591.9	1622.9	1841.8	2033.1	2691.3	3918.2	4837.8	4655.3	4744.8	4048.5	3728.7
60°	943.5	960.3	1250.9	1528.1	1949.8	3141.3	4828.0	4989.4	5019.4	4308.1	3865.1
62.5°	557.2	566.1	663.5	1031.2	1284.6	2059.6	4460.4	5232.9	5224.0	4473.7	3959.0
64°	406.7	412.8	473.1	748.5	960.3	1434.2	3999.8	5265.6	5255.1	4529.6	3985.6
65°	340.3	345.5	388.0	590.9	799.0	1096.8	3488.6	5207.2	5200.0	4557.9	3983.8
67.5°	272.8	273.7	286.2	346.4	543.9	575.8	2019.7	4740.3	4719.1	4587.1	3918.2
70°	244.5	248.0	270.2	272.8	397.8	378.2	710.5	3775.7	3729.6	4355.0	3765.8
72.5°	194.1	199.3	234.8	267.5	287.1	283.5	324.3	2302.4	2321.0	3199.7	3156.4
75°	135.6	140.8	177.2	221.5	226.8	207.3	234.0	864.6	853.1	1580.4	1835.5
77.5°	84.1	86.9	110.8	159.4	210.9	137.3	163.1	250.7	268.4	489.9	501.4
80°	55.8	56.7	70.0	105.4	146.2	124.0	97.5	126.6	129.4	154.2	76.2
82.5°	31.0	31.9	44.2	66.4	87.7	109.8	63.0	76.2	80.7	95.7	40.8
85°	10.6	11.5	23.1	37.2	53.1	53.1	40.8	46.1	47.0	60.2	21.3
87.5°	0.0	0.0	5.4	9.8	8.8	3.5	8.8	7.1	6.2	9.8	3.5
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	0.9	0.0	0.0	0.0	0.0	111.7	123.1	124.0	125.7
10°	0.0	0.0	0.9	0.9	0.0	118.6	125.7	123.1	116.9	115.2	113.4
12.5°	113.4	108.9	15.1	3.5	100.1	124.0	111.7	95.7	80.7	76.2	72.6
15°	234.0	231.2	206.4	226.8	140.8	106.3	78.8	85.0	71.8	67.3	65.5
17.5°	237.4	234.0	220.6	266.7	219.7	108.0	72.6	58.5	53.1	51.4	50.5
20°	450.9	437.6	320.6	262.2	168.4	109.8	55.8	47.0	43.3	47.8	50.5
22.5°	464.3	449.2	387.1	351.7	140.8	71.8	53.1	51.4	54.1	51.4	51.4
25°	585.5	541.3	425.2	288.8	124.9	63.8	60.2	47.0	43.3	41.6	41.6
27.5°	727.3	693.7	587.4	271.1	84.1	67.3	52.2	40.8	45.3	45.3	45.3
30°	777.8	730.8	593.5	237.4	74.4	61.0	44.2	44.2	39.9	38.1	38.1
32.5°	1117.0	1048.9	761.9	166.5	67.3	51.4	44.2	37.2	36.3	39.0	39.0
35°	1244.7	1164.9	742.4	123.1	59.3	47.0	38.1	36.3	34.5	34.5	34.5
37.5°	1414.8	1320.8	681.2	91.2	55.8	39.9	33.7	31.9	32.8	34.5	35.4
40°	1637.1	1523.7	631.6	75.3	47.8	34.5	30.1	31.0	31.0	31.0	31.0
42.5°	1899.4	1742.5	558.1	67.3	40.8	31.0	27.5	27.5	28.3	28.3	28.3
45°	2200.5	1981.8	455.4	59.3	35.4	26.6	24.8	24.8	24.8	23.9	24.8
47.5°	2519.4	2240.4	345.5	52.2	30.1	23.9	22.2	21.3	21.3	20.3	21.3
50°	2836.6	2481.4	252.5	45.3	26.6	21.3	18.6	18.6	18.6	17.7	17.7
52.5°	3090.0	2644.4	178.9	39.0	23.1	18.6	16.0	15.1	15.1	14.2	14.2
55°	3302.6	2741.9	131.1	32.8	20.3	16.0	13.3	12.4	12.4	11.5	12.4
57.5°	3466.5	2802.9	99.2	26.6	17.7	13.3	10.6	9.8	9.8	9.8	9.8
60°	3604.7	2823.3	76.2	22.2	15.1	10.6	8.8	7.9	7.9	7.1	7.9
62.5°	3733.1	2818.1	63.0	19.4	13.3	8.8	7.1	6.2	5.4	4.5	5.4
64°	3788.0	2803.8	56.7	16.8	12.4	7.9	6.2	5.4	4.5	2.6	3.5
65°	3811.1	2781.6	52.2	15.1	11.5	7.1	6.2	5.4	2.6	1.7	2.6
67.5°	3791.7	2667.3	40.8	13.3	8.8	5.4	4.5	3.5	0.9	0.9	1.7
70°	3574.5	2424.7	31.0	11.5	7.9	4.5	3.5	2.6	1.7	0.9	1.7
72.5°	2807.4	1743.4	23.9	8.8	6.2	2.6	3.5	2.6	1.7	0.9	0.0
75°	1506.0	654.7	17.7	7.1	5.4	2.6	2.6	1.7	0.9	0.9	0.0
77.5°	388.0	206.4	12.4	4.5	4.5	1.7	1.7	1.7	0.9	0.9	0.0
80°	60.2	29.3	5.4	3.5	2.6	0.9	1.7	0.9	0.9	1.7	0.0
82.5°	24.8	11.5	3.5	2.6	2.6	0.0	1.7	0.9	0.9	0.9	0.0
85°	6.2	4.5	2.6	1.7	1.7	0.0	0.9	0.0	0.9	0.9	0.0
87.5°	0.9	1.7	1.7	1.7	1.7	0.0	0.9	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)