

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: P416487

Luminaire Tested: **LXF.LXT-PA1-70-827-U-SL3-HSS**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P416487  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2002-662-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-70-827-U-SL3-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5181 lumens  
Efficiency: N/A  
Efficacy: 70.0 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

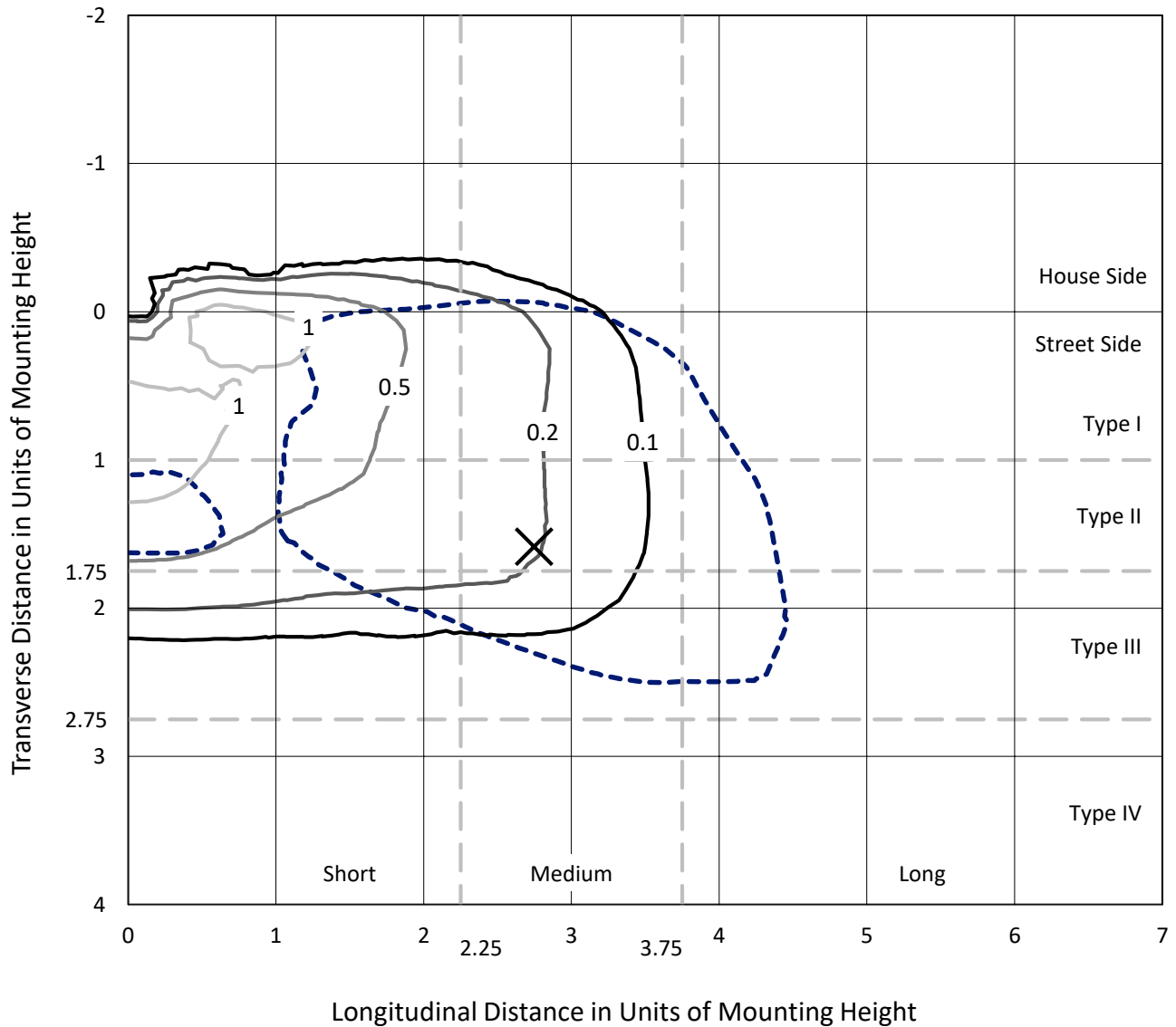
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

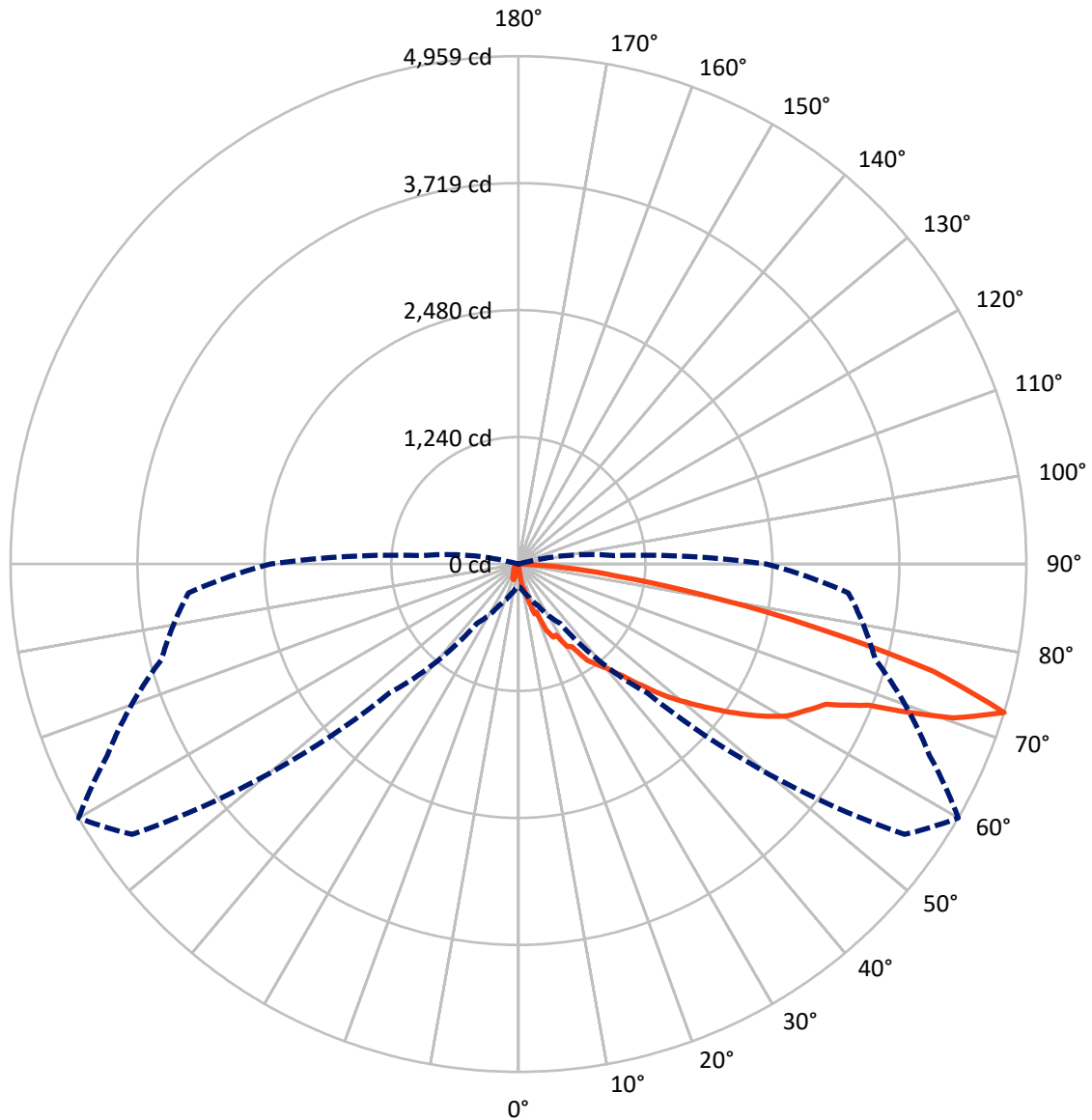
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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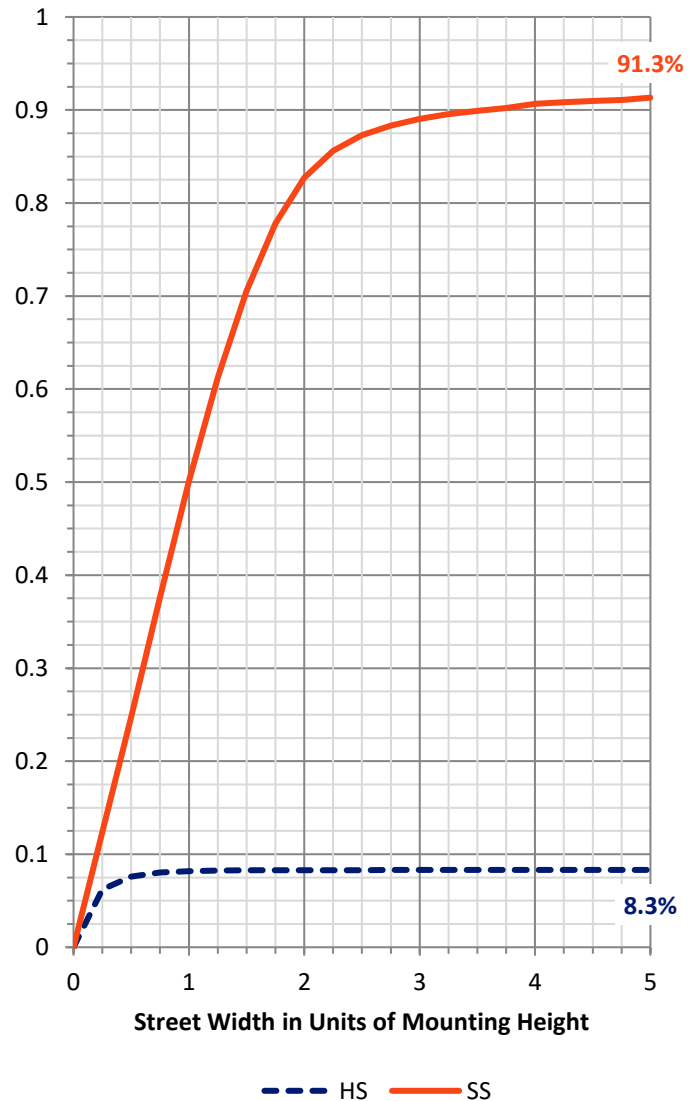
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	434.5	0.0	434.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	4746.5	0.0	4746.5
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	5181.0	0.0	5181.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.9	0.1
10°-20°	72.2	1.4
20°-30°	225.7	4.4
30°-40°	486.5	9.4
40°-50°	827.2	16.0
50°-60°	1222.9	23.6
60°-70°	1330.2	25.7
70°-80°	906.6	17.5
80°-90°	102.8	2.0
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°	5181.0	100.0
0°-180°	5181.0	100.0



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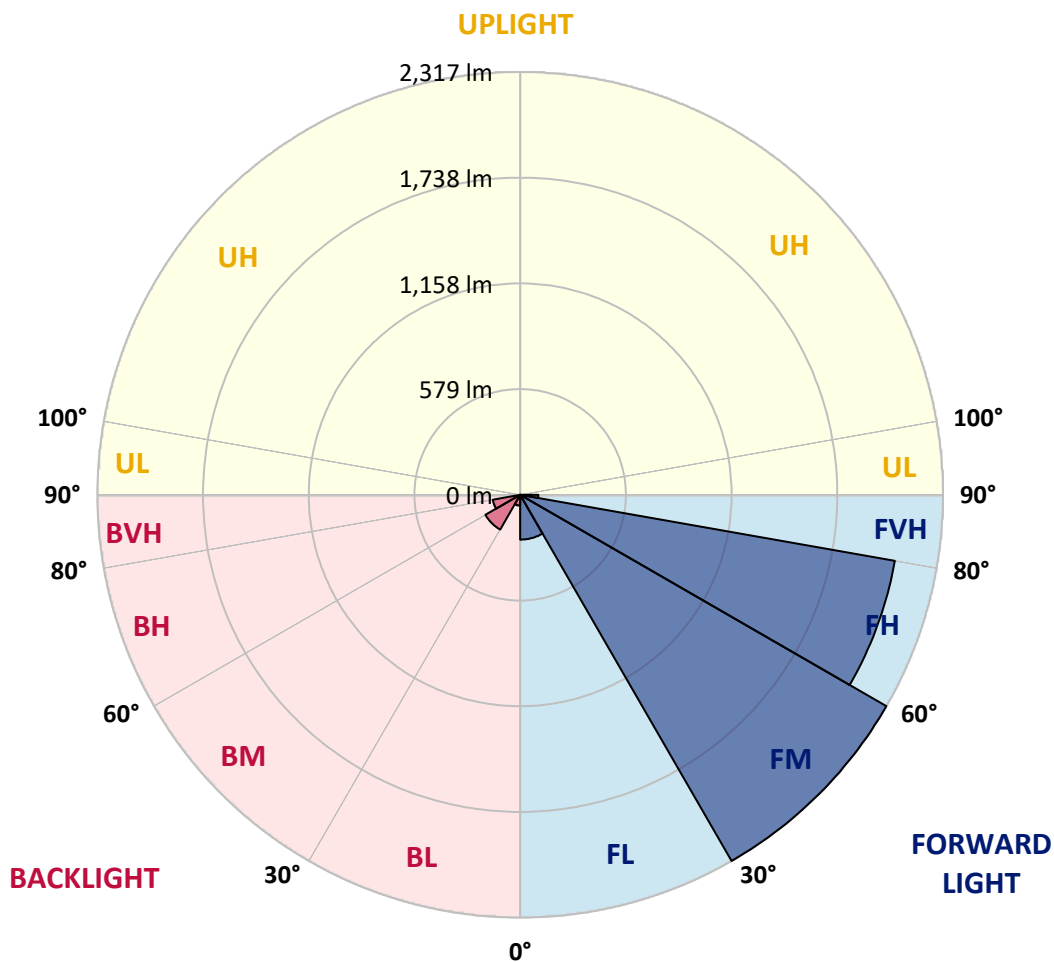
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	245.4	4.7			
FM	(30°-60°)	2316.8	44.7			
FH	(60°-80°)	2084.5	40.2			G2/5000
FVH	(80°-90°)	99.7	1.9			G1/100
BL	(0°-30°)	59.4	1.1	B0/110		
BM	(30°-60°)	219.8	4.2	B0/220		
BH	(60°-80°)	152.3	2.9	B1/500		G1/500
BVH	(80°-90°)	3.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
2.5°	4.7	3.4	3.4	2.7	2.0	2.0	2.0	2.7	2.7	2.0	2.7
5°	265.0	261.7	261.7	263.0	170.8	28.9	16.1	6.7	2.7	2.7	2.7
7.5°	251.6	248.9	250.2	253.6	255.6	259.0	259.0	79.4	25.6	2.7	2.7
10°	257.6	255.6	244.8	242.8	246.9	250.2	251.6	257.6	250.2	7.4	2.7
12.5°	453.3	450.0	450.0	456.0	265.0	242.1	244.8	250.9	216.6	28.3	15.5
15°	433.8	431.2	431.8	439.2	449.3	318.8	251.6	372.6	478.2	431.8	343.0
17.5°	605.4	521.3	450.7	429.1	431.2	445.3	487.7	512.5	486.3	491.7	374.0
20°	618.1	613.4	610.7	615.4	441.2	587.2	620.2	503.1	489.7	526.7	690.1
22.5°	639.7	628.9	607.4	604.7	679.3	578.5	600.7	703.6	722.4	771.5	718.4
25°	866.3	858.3	836.1	636.3	696.8	664.6	757.4	791.7	780.2	812.5	778.9
27.5°	951.8	936.3	888.5	826.0	739.9	783.6	766.1	785.0	861.6	1119.2	1098.4
30°	1333.8	1292.8	1160.9	951.1	879.8	815.9	891.2	930.9	995.5	1145.5	1126.0
32.5°	1449.5	1405.8	1310.3	1210.7	1042.6	924.9	980.7	963.2	1009.6	1397.7	1478.4
35°	1786.5	1766.3	1594.1	1317.7	1274.6	1091.0	1029.8	1150.2	1218.8	1417.2	1553.8
37.5°	1790.5	1791.9	1781.8	1594.8	1397.7	1226.2	1237.6	1242.3	1295.5	1510.0	1641.2
40°	1847.7	1857.1	1882.0	1740.7	1574.6	1421.9	1391.7	1344.6	1391.7	1614.3	1760.9
42.5°	1967.4	1974.1	2029.3	1882.0	1714.5	1574.6	1590.1	1493.9	1528.2	1811.4	1923.7
45°	2178.0	2173.9	2243.2	2030.6	1845.0	1748.8	1766.3	1692.3	1671.5	1972.8	2114.7
47.5°	2416.1	2430.9	2428.2	2194.8	1974.8	1910.9	1961.4	1921.7	1839.6	2178.6	2337.4
50°	2641.4	2636.7	2566.7	2287.6	2090.5	2069.7	2186.0	2120.8	2046.1	2387.8	2551.9
52.5°	2723.4	2727.5	2644.1	2343.4	2189.4	2227.1	2401.3	2335.3	2238.5	2537.1	2765.2
55°	2708.7	2714.0	2666.9	2400.6	2263.4	2374.4	2624.6	2568.1	2459.1	2699.2	2925.2
57.5°	2570.1	2570.1	2608.4	2436.2	2335.3	2506.2	2823.7	2800.8	2666.3	2833.8	3020.7
60°	2216.3	2254.0	2374.4	2393.2	2420.1	2648.8	3020.7	3013.3	2849.9	2959.5	3077.2
62.5°	1704.4	1716.5	1982.9	2184.7	2426.8	2840.5	3186.9	3151.2	2985.8	2997.9	3116.9
65°	966.6	1021.7	1267.9	1777.7	2288.9	3040.9	3453.9	3301.2	3104.8	3043.6	3262.9
67.5°	520.6	540.8	678.0	1076.2	1875.9	3063.1	4059.3	3681.9	3387.3	3284.4	3548.8
70°	336.3	357.8	431.8	591.2	1176.4	2708.7	4629.0	4501.9	3970.5	3614.0	3592.5
72.5°	218.6	231.4	311.4	445.3	707.6	1784.5	4602.8	4959.2	4431.2	3607.9	3234.0
75°	88.8	97.5	156.0	370.6	598.0	874.4	3531.3	4181.7	4160.2	3206.4	2502.8
77.5°	44.4	47.1	69.3	200.4	530.7	605.4	2234.5	2949.5	2961.6	2337.4	1391.7
80°	28.9	28.3	39.7	94.2	361.9	550.9	1249.7	1812.0	1694.3	886.5	390.1
82.5°	11.4	12.1	21.5	53.8	151.3	498.4	713.0	975.3	762.8	172.9	112.3
85°	2.0	2.0	6.7	28.9	47.8	228.0	460.1	472.2	313.4	54.5	56.5
87.5°	0.7	0.7	1.3	2.0	3.4	5.4	20.2	9.4	6.1	9.4	10.8
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°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
2.5°	2.7	2.7	2.7	2.0	2.0	1.3	0.0	0.0	0.7	0.7	0.7
5°	2.7	2.7	2.7	2.0	2.0	0.7	0.0	0.0	0.7	0.7	0.7
7.5°	2.7	2.7	2.7	2.0	1.3	0.7	0.0	0.0	0.7	0.7	0.7
10°	2.7	2.7	2.7	2.0	1.3	0.7	19.5	124.4	128.5	129.1	127.8
12.5°	16.8	17.5	9.4	2.0	1.3	115.7	115.0	96.2	84.1	79.4	73.3
15°	365.2	347.1	287.2	169.5	93.5	94.8	70.0	51.8	41.7	39.0	37.7
17.5°	361.9	335.6	264.3	154.7	162.8	71.3	37.7	41.7	54.5	55.2	55.2
20°	680.0	596.6	258.3	172.9	109.6	61.9	49.1	51.8	51.8	52.5	51.8
22.5°	708.9	625.5	386.8	220.6	78.7	65.2	55.8	48.4	49.8	64.6	62.6
25°	715.0	613.4	358.5	172.9	76.0	65.2	61.2	59.2	66.6	66.6	67.3
27.5°	1030.5	862.3	434.5	129.8	75.3	67.9	67.9	61.9	59.9	59.2	59.9
30°	1028.4	832.7	370.6	109.6	72.6	67.3	61.2	55.2	66.6	67.3	67.3
32.5°	1350.0	1064.8	358.5	88.8	72.6	61.9	53.8	57.2	53.1	53.1	53.1
35°	1368.8	1037.9	282.5	92.1	64.6	56.5	52.5	44.4	47.1	47.8	46.4
37.5°	1405.1	1019.0	214.6	83.4	64.6	52.5	43.0	39.7	37.0	36.3	36.3
40°	1470.4	1020.4	165.5	76.7	60.5	47.8	38.3	32.3	33.6	33.6	33.0
42.5°	1567.9	1039.9	129.8	70.6	54.5	42.4	32.3	28.9	26.9	26.9	26.2
45°	1697.0	1081.6	106.3	65.9	49.8	36.3	26.2	23.5	21.5	21.5	20.9
47.5°	1857.1	1140.1	92.8	61.2	44.4	30.3	21.5	18.8	17.5	16.8	16.8
50°	2028.0	1210.0	85.4	57.2	38.3	24.2	17.5	14.8	13.5	13.5	12.8
52.5°	2204.9	1290.1	79.4	54.5	33.0	20.2	13.5	10.8	10.1	9.4	10.1
55°	2348.1	1338.5	75.3	53.8	27.6	16.1	10.1	8.1	7.4	6.7	6.7
57.5°	2442.3	1364.8	70.0	49.8	22.2	12.1	7.4	5.4	4.7	4.7	4.7
60°	2516.3	1379.5	63.2	39.7	17.5	8.7	4.7	3.4	3.4	3.4	3.4
62.5°	2574.8	1389.6	53.1	30.9	13.5	6.1	3.4	2.0	2.0	2.0	2.0
65°	2748.3	1448.8	41.0	23.5	10.1	4.0	2.0	1.3	0.7	1.3	1.3
67.5°	2959.5	1473.7	30.3	16.8	7.4	2.7	1.3	0.7	0.7	0.7	1.3
70°	2876.1	1284.0	22.2	12.1	5.4	2.0	1.3	0.7	0.7	0.7	1.3
72.5°	2416.7	938.3	16.1	8.7	4.0	2.0	1.3	0.7	0.7	1.3	1.3
75°	1738.1	529.4	12.8	6.1	3.4	2.0	1.3	1.3	1.3	2.0	2.0
77.5°	817.9	197.1	12.8	5.4	3.4	2.0	1.3	1.3	2.0	2.7	1.3
80°	198.4	49.1	12.8	4.7	3.4	2.0	2.0	2.0	2.7	2.7	1.3
82.5°	66.6	20.9	9.4	4.0	3.4	2.0	2.0	2.7	2.7	3.4	2.0
85°	40.4	13.5	6.7	4.7	4.0	2.0	2.7	2.7	3.4	4.0	2.0
87.5°	6.7	5.4	4.7	4.7	4.0	2.7	2.7	3.4	3.4	4.0	2.7
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)