

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: P416548

Luminaire Tested: **LXF.LXT-PA1-70-830-U-T2R-HSS**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P416548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-505-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-70-830-U-T2R-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5277 lumens  
Efficiency: N/A  
Efficacy: 71.3 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B0 - U0 - G1

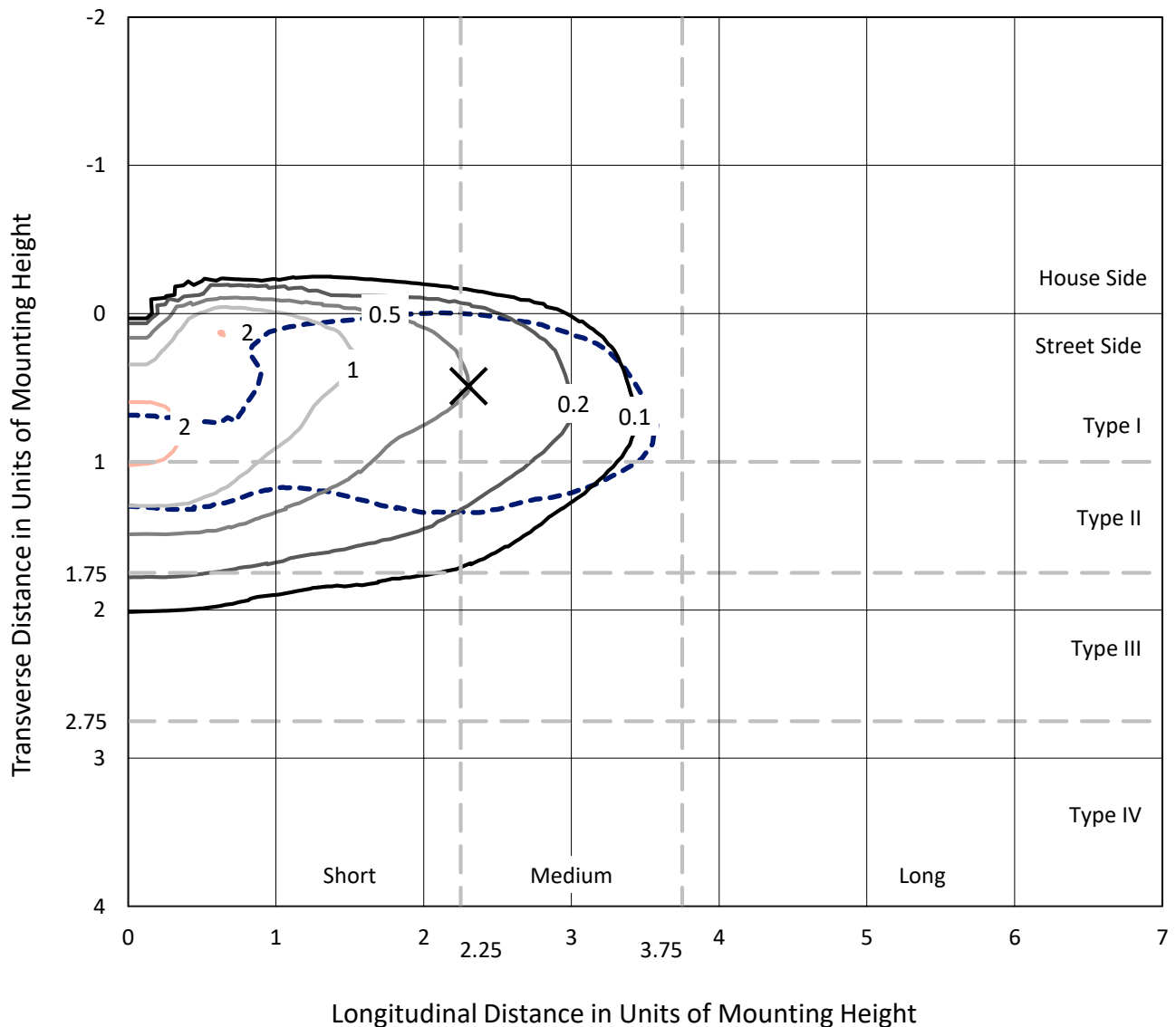
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

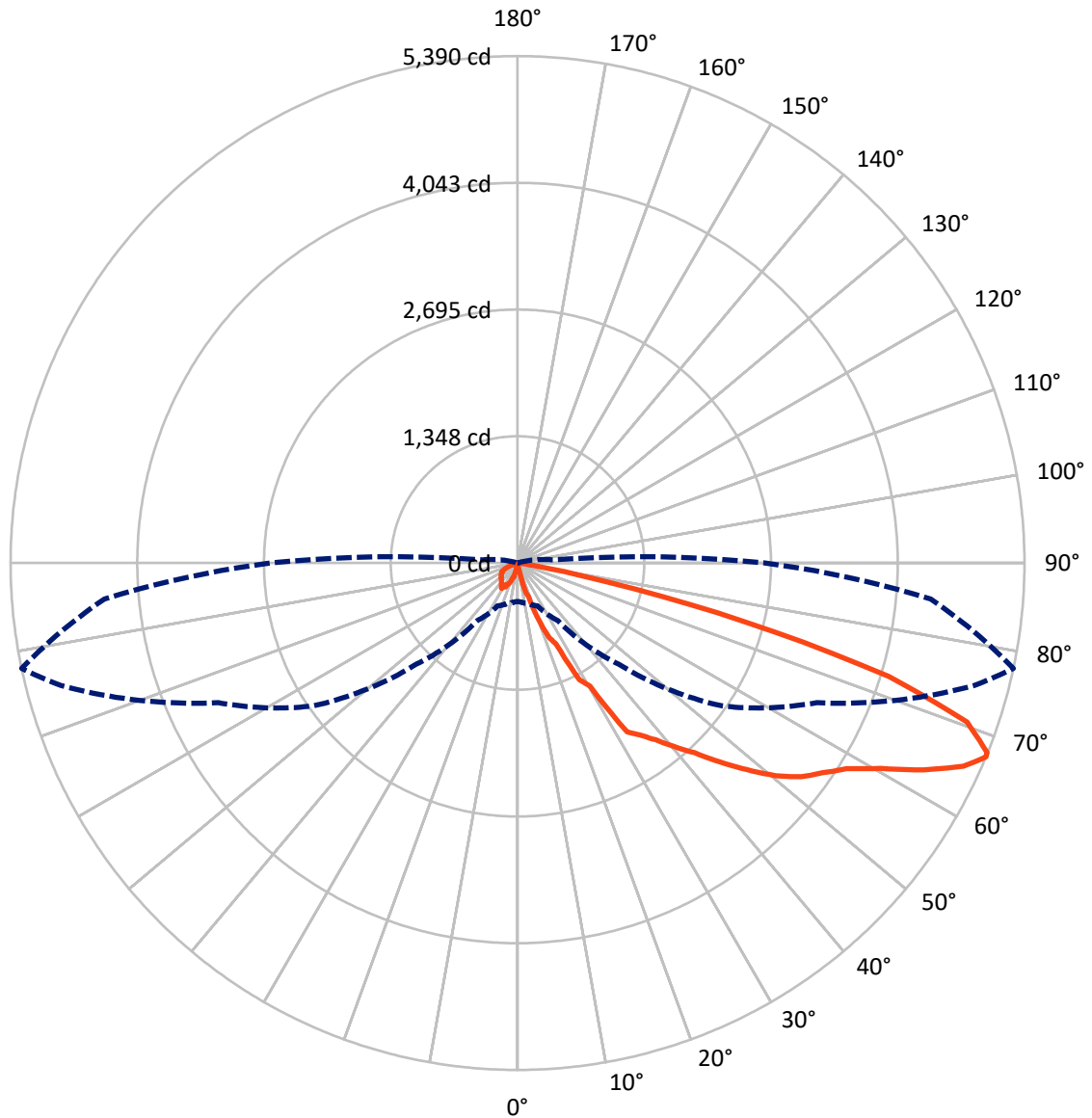
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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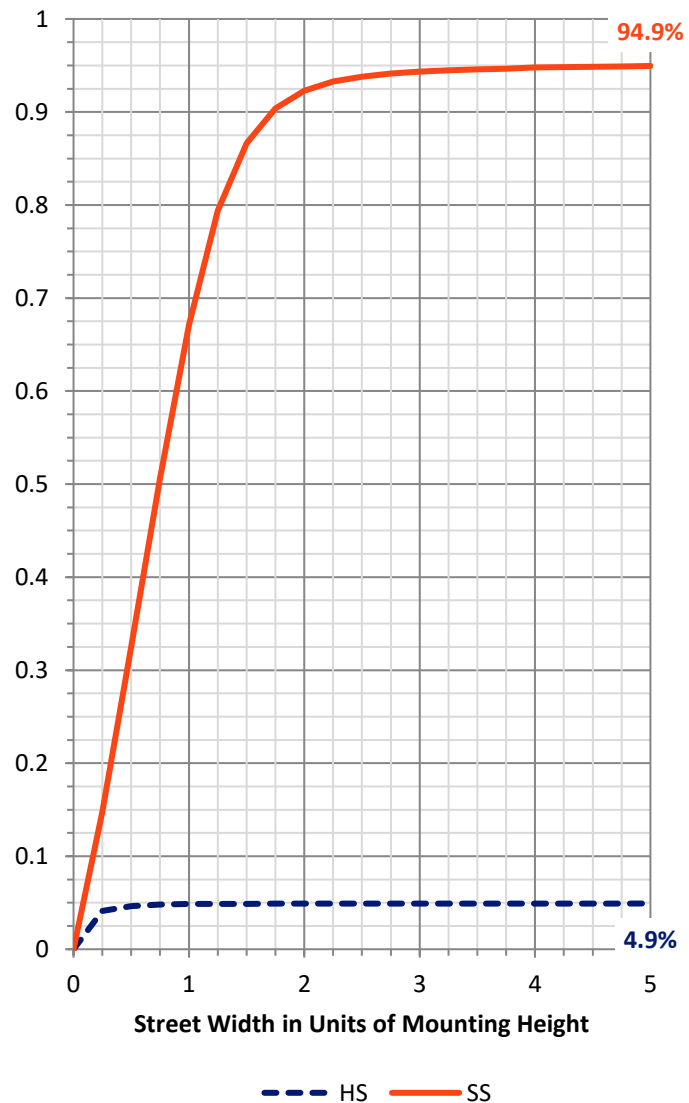
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	261.3	0.0	261.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	5015.7	0.0	5015.7
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	5277.0	0.0	5277.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.0	0.1
10°-20°	71.9	1.4
20°-30°	286.5	5.4
30°-40°	728.9	13.8
40°-50°	1193.4	22.6
50°-60°	1345.7	25.5
60°-70°	1160.5	22.0
70°-80°	466.8	8.8
80°-90°	18.3	0.3
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°	5277.0	100.0
0°-180°	5277.0	100.0

**Coefficient of Utilization**



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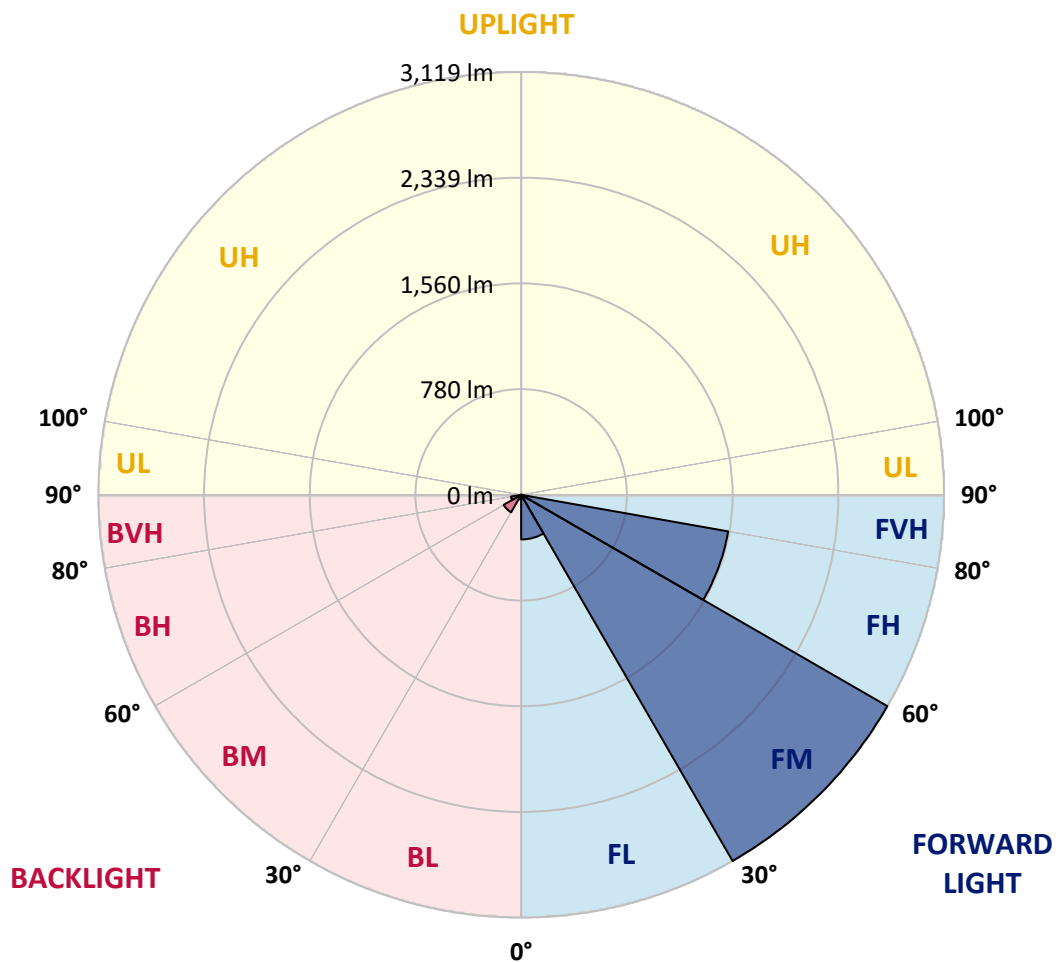
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	329.1	6.2			
FM	(30°-60°)	3119.2	59.1			
FH	(60°-80°)	1550.9	29.4			G1/1800
FVH	(80°-90°)	16.4	0.3			G1/100
BL	(0°-30°)	34.3	0.6	B0/110		
BM	(30°-60°)	148.8	2.8	B0/220		
BH	(60°-80°)	76.4	1.4	B0/110		G0/110
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2.5°	0.7	0.7	1.5	1.5	2.9	2.9	2.2	2.2	2.2	2.2	2.2
5°	221.0	173.0	122.9	35.6	13.8	6.5	2.9	2.2	2.2	2.2	1.5
7.5°	246.4	244.3	241.4	239.9	235.5	228.3	16.0	2.9	2.2	2.2	2.2
10°	263.9	259.5	258.8	258.1	255.2	249.3	238.4	13.8	2.2	2.2	2.2
12.5°	530.0	527.8	519.0	303.9	273.3	267.5	258.1	185.4	14.5	122.1	132.3
15°	523.4	522.0	527.8	539.4	550.3	293.7	419.5	529.2	325.0	311.1	324.2
17.5°	541.6	540.9	531.4	540.9	557.6	650.6	599.0	577.2	360.6	376.6	346.0
20°	811.3	809.8	817.8	769.1	578.7	810.6	752.4	625.2	708.1	650.6	653.5
22.5°	852.0	854.9	852.7	869.4	1004.7	837.5	936.3	971.9	983.6	861.4	743.7
25°	1250.4	1232.2	1194.4	923.2	1083.2	1038.8	1189.3	1050.5	1057.7	953.0	953.0
27.5°	1400.9	1400.9	1369.6	1334.0	1149.3	1334.0	1251.8	1379.8	1504.8	1405.9	1193.7
30°	1901.0	1886.5	1571.0	1525.9	1430.7	1411.8	1511.3	1619.7	1564.4	1517.9	1342.7
32.5°	2260.1	2261.6	2181.6	1937.3	1701.1	1574.6	1750.5	1786.9	2085.6	2140.2	1820.3
35°	2883.8	2847.5	2456.4	2234.7	2002.0	1917.7	1909.0	2092.9	2264.5	2245.6	1973.0
37.5°	3280.0	3254.6	3065.6	2567.6	2269.6	2080.6	2194.0	2202.7	2480.4	2385.2	2155.4
40°	3461.8	3450.1	3290.2	2867.1	2504.4	2303.0	2339.4	2367.7	2697.0	2566.2	2308.8
42.5°	3608.6	3597.7	3452.3	3017.6	2729.7	2516.0	2502.9	2508.0	2872.2	2757.4	2463.7
45°	3679.1	3672.6	3610.1	3150.6	2827.9	2654.1	2681.0	2648.3	3024.9	3017.6	2635.2
47.5°	3610.8	3614.4	3631.9	3268.4	2899.8	2763.2	2854.0	2801.7	3206.6	3282.9	2828.6
50°	3370.2	3368.7	3468.3	3285.9	2941.3	2850.4	3006.7	2946.4	3422.5	3554.8	3003.1
52.5°	2629.4	2726.1	3086.7	3098.3	2931.8	2894.0	3121.6	3112.8	3626.1	3775.8	3177.5
55°	1978.8	2018.0	2360.4	2687.6	2809.7	2888.9	3162.3	3224.8	3776.6	3937.2	3314.2
57.5°	1555.0	1541.9	1729.4	2166.3	2501.5	2803.2	3152.8	3268.4	3923.4	4126.2	3494.5
60°	1137.7	1149.3	1298.3	1571.0	2057.3	2608.3	3123.7	3338.9	4156.0	4431.5	3762.7
62.5°	825.1	825.1	927.6	1094.1	1576.0	2295.7	3060.5	3437.8	4520.2	4845.9	4081.9
65°	555.4	551.8	628.1	713.1	1079.5	1899.5	2890.4	3530.1	4869.2	5210.1	4355.9
67°	408.6	416.5	447.8	503.8	746.6	1521.5	2647.6	3511.9	5029.8	5390.4	4409.7
67.5°	382.4	386.0	428.9	478.3	688.4	1421.2	2578.5	3490.1	5047.3	5386.0	4382.1
70°	277.7	283.5	306.8	321.3	416.5	937.8	2058.0	3147.0	4792.8	5070.5	3984.5
72.5°	149.0	161.4	223.2	221.7	258.8	572.1	1399.4	2335.7	3939.4	4127.7	3058.3
75°	116.3	117.8	133.0	164.3	167.2	318.4	673.2	1357.2	2492.0	2505.8	1698.2
77.5°	85.1	88.7	98.1	104.0	109.0	181.0	235.5	539.4	1103.5	963.9	636.1
80°	57.4	59.6	64.7	77.1	89.4	102.5	76.3	143.9	259.5	201.4	95.2
82.5°	24.7	24.0	45.1	64.7	64.0	42.2	38.5	45.1	51.6	47.3	29.1
85°	1.5	2.2	23.3	31.3	26.9	18.2	24.0	18.9	19.6	18.9	14.5
87.5°	0.7	0.7	2.2	2.9	3.6	3.6	4.4	4.4	5.8	6.5	5.8
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°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2.5°	2.2	2.2	2.2	2.2	2.2	0.7	0.7	0.0	0.0	0.0	0.0
5°	2.2	2.2	2.2	2.2	2.2	0.7	0.0	0.0	0.0	0.0	0.0
7.5°	2.2	2.2	2.2	2.2	2.2	0.7	0.0	8.0	21.8	23.3	22.5
10°	2.2	2.2	2.2	2.2	1.5	18.9	26.2	24.7	24.0	23.3	23.3
12.5°	132.3	112.0	20.4	4.4	18.9	24.0	21.1	21.1	20.4	20.4	20.4
15°	289.3	242.8	114.1	38.5	29.8	20.4	18.9	18.9	31.3	34.2	33.4
17.5°	303.1	245.0	112.0	52.3	42.9	26.2	26.2	33.4	32.7	31.3	31.3
20°	576.5	378.0	129.4	51.6	39.3	41.4	31.3	29.1	27.6	26.2	26.2
22.5°	616.5	444.2	138.8	65.4	42.2	41.4	32.0	26.9	34.2	33.4	33.4
25°	796.0	536.5	125.8	61.1	54.5	37.8	34.2	29.8	29.1	27.6	27.6
27.5°	986.5	634.6	138.8	63.2	49.4	37.1	32.0	26.2	27.6	30.5	30.5
30°	1081.7	635.4	109.8	64.7	47.3	37.8	28.4	29.1	27.6	26.9	26.2
32.5°	1451.7	815.6	105.4	61.8	44.3	32.7	29.1	25.4	23.3	25.4	25.4
35°	1517.2	787.3	91.6	62.5	40.0	29.8	24.7	23.3	23.3	22.5	22.5
37.5°	1589.1	756.8	80.7	55.2	38.5	26.9	21.1	21.1	20.4	21.8	21.8
40°	1668.4	724.8	72.0	48.0	32.7	22.5	18.9	18.2	18.9	18.9	18.2
42.5°	1760.7	693.5	64.7	42.2	27.6	18.9	15.3	15.3	15.3	14.5	14.5
45°	1859.6	668.8	59.6	36.3	23.3	16.0	12.4	11.6	10.9	10.9	10.9
47.5°	1976.6	658.6	55.2	30.5	19.6	12.4	9.5	8.7	8.0	7.3	7.3
50°	2074.7	654.3	48.7	25.4	16.7	10.2	6.5	5.8	5.1	4.4	4.4
52.5°	2161.3	635.4	42.2	20.4	13.1	7.3	4.4	2.9	2.2	2.2	2.2
55°	2247.0	617.9	36.3	17.4	9.5	4.4	2.2	0.7	0.7	1.5	1.5
57.5°	2353.2	598.3	31.3	14.5	7.3	2.9	1.5	0.0	0.7	0.7	1.5
60°	2519.6	577.9	27.6	12.4	5.1	2.2	0.7	0.0	0.0	0.7	0.7
62.5°	2668.7	542.3	24.0	10.9	4.4	2.2	0.7	0.0	0.0	0.0	0.7
65°	2733.4	468.9	21.1	9.5	4.4	2.2	0.7	0.0	0.0	0.0	0.0
67°	2625.1	379.5	18.9	8.7	3.6	1.5	0.7	0.0	0.0	0.0	0.0
67.5°	2574.2	354.0	18.9	8.0	3.6	1.5	0.7	0.7	0.0	0.0	0.0
70°	2185.2	234.8	16.7	7.3	3.6	1.5	1.5	0.7	0.0	0.0	0.0
72.5°	1677.1	136.7	14.5	6.5	3.6	1.5	1.5	0.7	0.7	0.0	0.0
75°	937.8	69.1	11.6	6.5	3.6	2.2	2.2	1.5	1.5	1.5	0.0
77.5°	300.2	37.8	8.7	5.8	3.6	2.2	2.2	1.5	2.2	2.2	0.7
80°	47.3	19.6	6.5	4.4	3.6	1.5	2.2	2.2	2.9	2.9	0.7
82.5°	17.4	10.9	5.1	4.4	3.6	1.5	2.2	2.2	2.9	3.6	0.0
85°	8.0	6.5	5.1	4.4	3.6	1.5	2.2	2.2	2.9	3.6	0.0
87.5°	3.6	5.1	4.4	4.4	3.6	1.5	2.2	2.2	2.9	2.9	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)