

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: P417380

Luminaire Tested: **LXF.LXT-PA1-90-830-U-T2R-HSS**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P417380  
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-PA1-90-830-U-T2R-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 3000K, 1180mA 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: 6219 lumens  
Efficiency: N/A  
Efficacy: 66.2 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 - G2

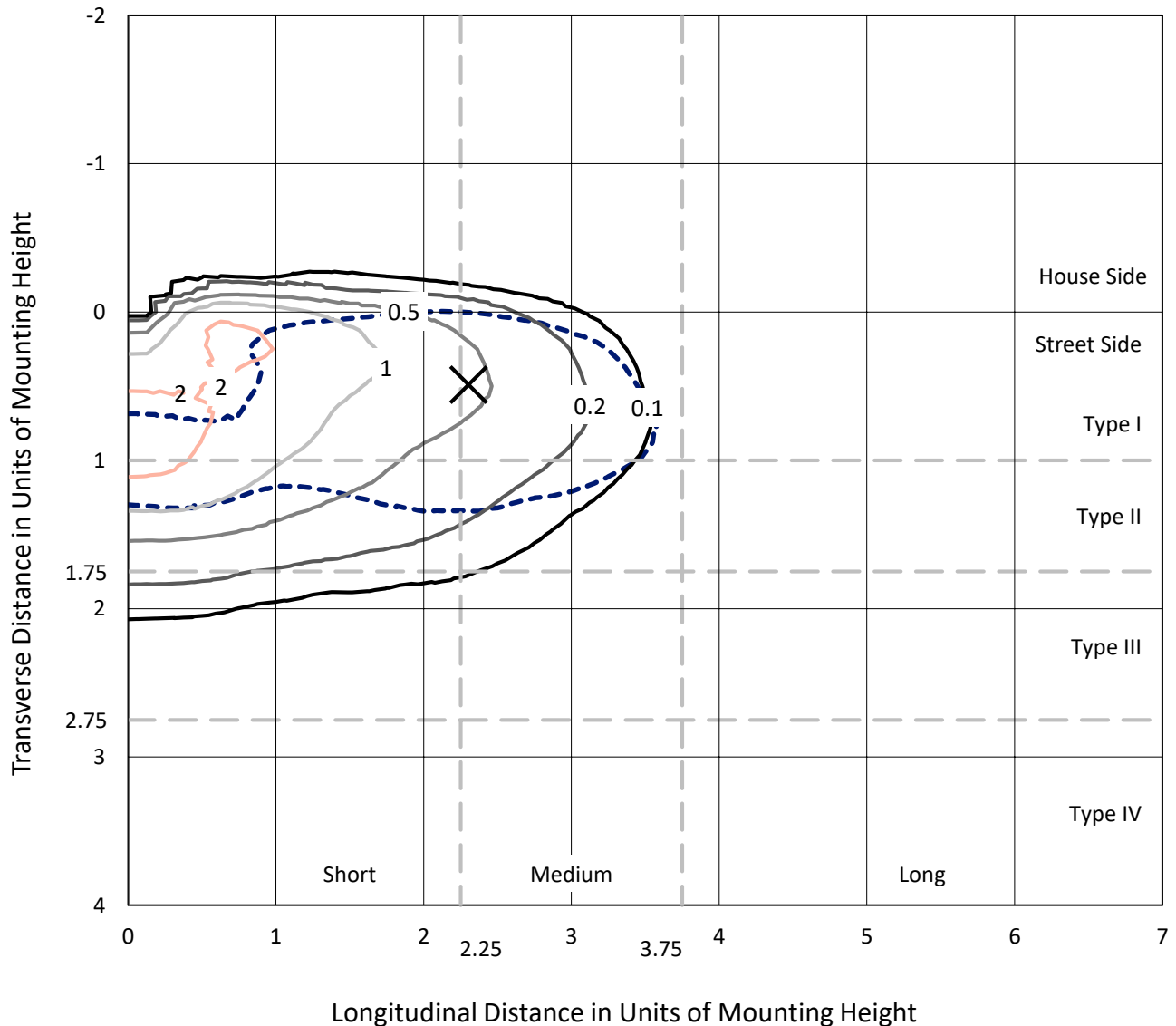
Input Watts (W): 94  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

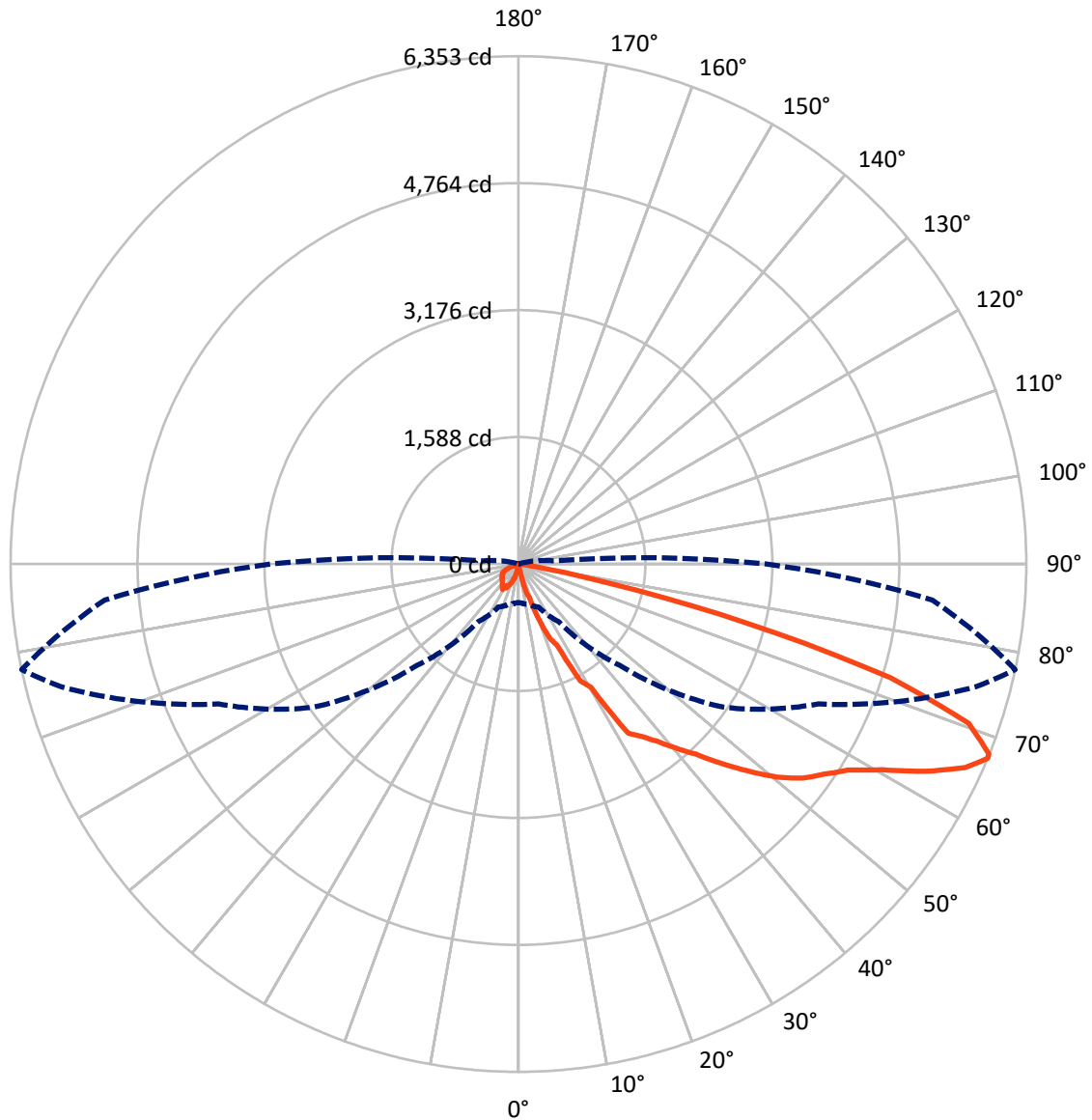
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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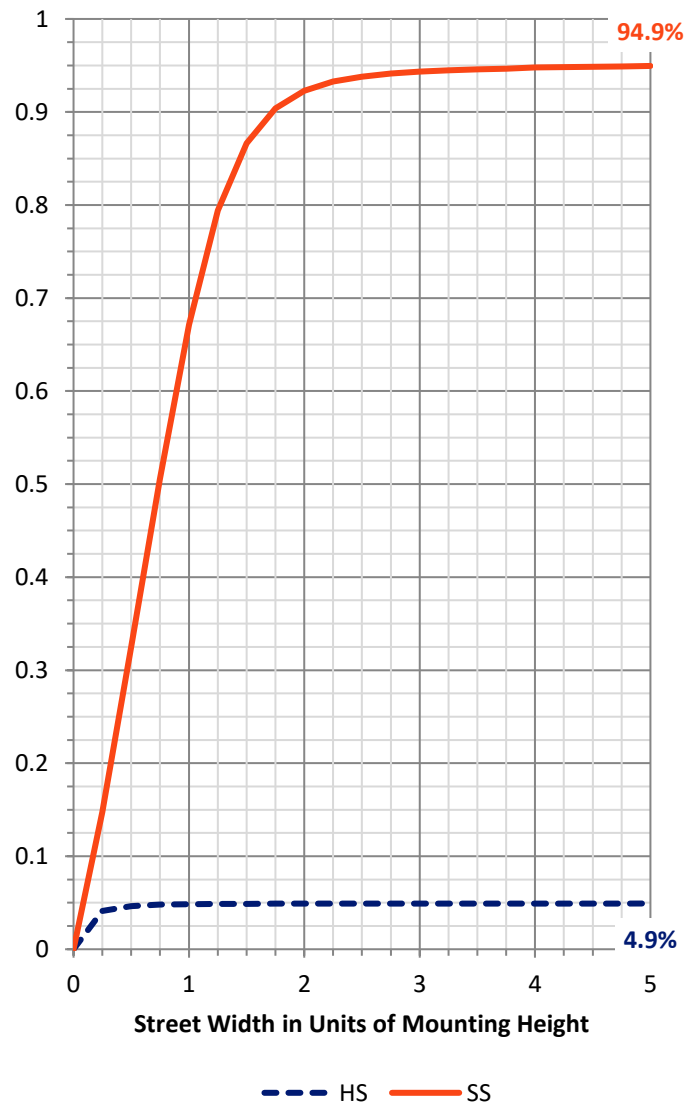
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	308.0	0.0	308.0
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	5911.1	0.0	5911.1
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	6219.0	0.0	6219.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.9	0.1
10°-20°	84.7	1.4
20°-30°	337.7	5.4
30°-40°	859.0	13.8
40°-50°	1406.4	22.6
50°-60°	1586.0	25.5
60°-70°	1367.6	22.0
70°-80°	550.1	8.8
80°-90°	21.6	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°	6219.0	100.0
0°-180°	6219.0	100.0



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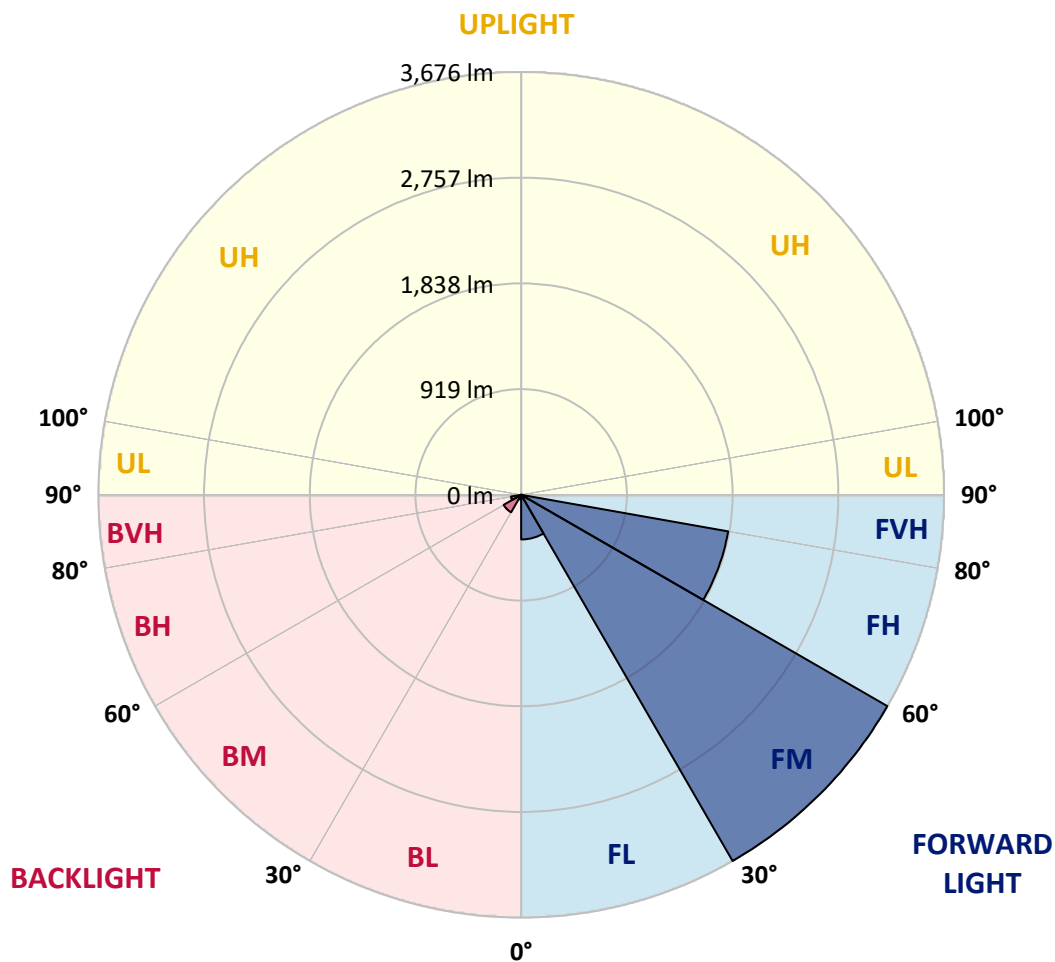
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	387.9	6.2			
FM	(30°-60°)	3676.1	59.1			
FH	(60°-80°)	1827.7	29.4			G2/5000
FVH	(80°-90°)	19.4	0.3			G1/100
BL	(0°-30°)	40.4	0.6	B0/110		
BM	(30°-60°)	175.3	2.8	B0/220		
BH	(60°-80°)	90.0	1.4	B0/110		G0/110
BVH	(80°-90°)	2.2	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-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
2.5°	0.9	0.9	1.7	1.7	3.4	3.4	2.6	2.6	2.6	2.6	2.6
5°	260.4	203.9	144.8	42.0	16.3	7.7	3.4	2.6	2.6	2.6	1.7
7.5°	290.4	287.9	284.4	282.7	277.6	269.0	18.8	3.4	2.6	2.6	2.6
10°	311.0	305.9	305.0	304.1	300.7	293.9	281.0	16.3	2.6	2.6	2.6
12.5°	624.6	622.0	611.7	358.1	322.1	315.3	304.1	218.5	17.1	143.9	155.9
15°	616.8	615.1	622.0	635.7	648.5	346.1	494.3	623.7	383.0	366.7	382.1
17.5°	638.3	637.4	626.3	637.4	657.1	766.8	705.9	680.2	424.9	443.8	407.8
20°	956.1	954.4	963.8	906.4	682.0	955.3	886.7	736.8	834.5	766.8	770.2
22.5°	1004.1	1007.5	1004.9	1024.6	1184.0	987.0	1103.5	1145.4	1159.2	1015.2	876.4
25°	1473.6	1452.2	1407.6	1088.0	1276.5	1224.3	1401.6	1238.0	1246.5	1123.2	1123.2
27.5°	1650.9	1650.9	1614.1	1572.1	1354.5	1572.1	1475.3	1626.1	1773.4	1656.9	1406.7
30°	2240.3	2223.2	1851.4	1798.3	1686.0	1663.8	1781.1	1908.8	1843.7	1788.9	1582.4
32.5°	2663.6	2665.3	2571.0	2283.2	2004.7	1855.7	2063.0	2105.8	2458.0	2522.2	2145.3
35°	3398.6	3355.8	2894.9	2633.6	2359.4	2260.1	2249.8	2466.5	2668.7	2646.4	2325.2
37.5°	3865.6	3835.6	3612.8	3026.0	2674.7	2452.0	2585.6	2595.9	2923.2	2810.9	2540.2
40°	4079.7	4066.0	3877.6	3378.9	2951.4	2714.1	2757.0	2790.4	3178.5	3024.3	2721.0
42.5°	4252.8	4240.0	4068.6	3556.3	3217.0	2965.1	2949.7	2955.7	3384.9	3249.6	2903.5
45°	4335.9	4328.2	4254.5	3713.1	3332.7	3127.9	3159.6	3121.1	3564.9	3556.3	3105.6
47.5°	4255.4	4259.7	4280.2	3851.9	3417.5	3256.4	3363.5	3301.8	3779.0	3869.0	3333.5
50°	3971.8	3970.1	4087.5	3872.4	3466.3	3359.2	3543.4	3472.3	4033.5	4189.4	3539.1
52.5°	3098.8	3212.7	3637.7	3651.4	3455.2	3410.6	3678.8	3668.5	4273.4	4449.9	3744.8
55°	2332.0	2378.3	2781.8	3167.3	3311.3	3404.6	3726.8	3800.5	4450.7	4640.0	3905.8
57.5°	1832.5	1817.1	2038.2	2553.1	2948.0	3303.5	3715.6	3851.9	4623.8	4862.8	4118.3
60°	1340.8	1354.5	1530.1	1851.4	2424.5	3073.9	3681.4	3935.0	4897.9	5222.6	4434.4
62.5°	972.4	972.4	1093.2	1289.4	1857.4	2705.6	3606.8	4051.5	5327.1	5711.0	4810.5
65°	654.5	650.3	740.2	840.5	1272.2	2238.6	3406.4	4160.3	5738.4	6140.2	5133.5
67°	481.5	490.9	527.7	593.7	879.9	1793.1	3120.2	4138.9	5927.7	6352.6	5196.9
67.5°	450.6	454.9	505.5	563.7	811.3	1674.9	3038.8	4113.2	5948.3	6347.5	5164.4
70°	327.3	334.1	361.5	378.7	490.9	1105.2	2425.4	3708.8	5648.4	5975.7	4695.7
72.5°	175.6	190.2	263.0	261.3	305.0	674.2	1649.2	2752.7	4642.6	4864.5	3604.3
75°	137.1	138.8	156.8	193.6	197.0	375.2	793.3	1599.5	2936.9	2953.1	2001.3
77.5°	100.2	104.5	115.7	122.5	128.5	213.3	277.6	635.7	1300.5	1136.0	749.6
80°	67.7	70.3	76.2	90.8	105.4	120.8	90.0	169.6	305.9	237.3	112.2
82.5°	29.1	28.3	53.1	76.2	75.4	49.7	45.4	53.1	60.8	55.7	34.3
85°	1.7	2.6	27.4	36.8	31.7	21.4	28.3	22.3	23.1	22.3	17.1
87.5°	0.9	0.9	2.6	3.4	4.3	4.3	5.1	5.1	6.9	7.7	6.9
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°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
2.5°	2.6	2.6	2.6	2.6	2.6	0.9	0.9	0.0	0.0	0.0	0.0
5°	2.6	2.6	2.6	2.6	2.6	0.9	0.0	0.0	0.0	0.0	0.0
7.5°	2.6	2.6	2.6	2.6	2.6	0.9	0.0	9.4	25.7	27.4	26.6
10°	2.6	2.6	2.6	2.6	1.7	22.3	30.8	29.1	28.3	27.4	27.4
12.5°	155.9	131.9	24.0	5.1	22.3	28.3	24.8	24.8	24.0	24.0	24.0
15°	341.0	286.1	134.5	45.4	35.1	24.0	22.3	22.3	36.8	40.3	39.4
17.5°	357.3	288.7	131.9	61.7	50.5	30.8	30.8	39.4	38.6	36.8	36.8
20°	679.4	445.5	152.5	60.8	46.3	48.8	36.8	34.3	32.6	30.8	30.8
22.5°	726.5	523.5	163.6	77.1	49.7	48.8	37.7	31.7	40.3	39.4	39.4
25°	938.1	632.3	148.2	72.0	64.3	44.5	40.3	35.1	34.3	32.6	32.6
27.5°	1162.6	747.9	163.6	74.5	58.3	43.7	37.7	30.8	32.6	36.0	36.0
30°	1274.8	748.8	129.4	76.2	55.7	44.5	33.4	34.3	32.6	31.7	30.8
32.5°	1710.9	961.3	124.2	72.8	52.3	38.6	34.3	30.0	27.4	30.0	30.0
35°	1788.0	927.8	107.9	73.7	47.1	35.1	29.1	27.4	27.4	26.6	26.6
37.5°	1872.8	891.9	95.1	65.1	45.4	31.7	24.8	24.8	24.0	25.7	25.7
40°	1966.2	854.2	84.8	56.5	38.6	26.6	22.3	21.4	22.3	22.3	21.4
42.5°	2075.0	817.3	76.2	49.7	32.6	22.3	18.0	18.0	18.0	17.1	17.1
45°	2191.5	788.2	70.3	42.8	27.4	18.8	14.6	13.7	12.9	12.9	12.9
47.5°	2329.4	776.2	65.1	36.0	23.1	14.6	11.1	10.3	9.4	8.6	8.6
50°	2445.1	771.1	57.4	30.0	19.7	12.0	7.7	6.9	6.0	5.1	5.1
52.5°	2547.1	748.8	49.7	24.0	15.4	8.6	5.1	3.4	2.6	2.6	2.6
55°	2648.2	728.2	42.8	20.6	11.1	5.1	2.6	0.9	0.9	1.7	1.7
57.5°	2773.2	705.1	36.8	17.1	8.6	3.4	1.7	0.0	0.9	0.9	1.7
60°	2969.4	681.1	32.6	14.6	6.0	2.6	0.9	0.0	0.0	0.9	0.9
62.5°	3145.1	639.1	28.3	12.9	5.1	2.6	0.9	0.0	0.0	0.0	0.9
65°	3221.3	552.6	24.8	11.1	5.1	2.6	0.9	0.0	0.0	0.0	0.0
67°	3093.6	447.2	22.3	10.3	4.3	1.7	0.9	0.0	0.0	0.0	0.0
67.5°	3033.7	417.2	22.3	9.4	4.3	1.7	0.9	0.9	0.0	0.0	0.0
70°	2575.3	276.7	19.7	8.6	4.3	1.7	1.7	0.9	0.0	0.0	0.0
72.5°	1976.5	161.1	17.1	7.7	4.3	1.7	1.7	0.9	0.9	0.0	0.0
75°	1105.2	81.4	13.7	7.7	4.3	2.6	2.6	1.7	1.7	1.7	0.0
77.5°	353.8	44.5	10.3	6.9	4.3	2.6	2.6	1.7	2.6	2.6	0.9
80°	55.7	23.1	7.7	5.1	4.3	1.7	2.6	2.6	3.4	3.4	0.9
82.5°	20.6	12.9	6.0	5.1	4.3	1.7	2.6	2.6	3.4	4.3	0.0
85°	9.4	7.7	6.0	5.1	4.3	1.7	2.6	2.6	3.4	4.3	0.0
87.5°	4.3	6.0	5.1	5.1	4.3	1.7	2.6	2.6	3.4	3.4	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)