

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: P416912

Luminaire Tested: **LXF.LXT-PA1-80-827-U-T2R-HSS**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P416912  
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-PA1-80-827-U-T2R-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA 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: 5336 lumens  
Efficiency: N/A  
Efficacy: 64.3 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

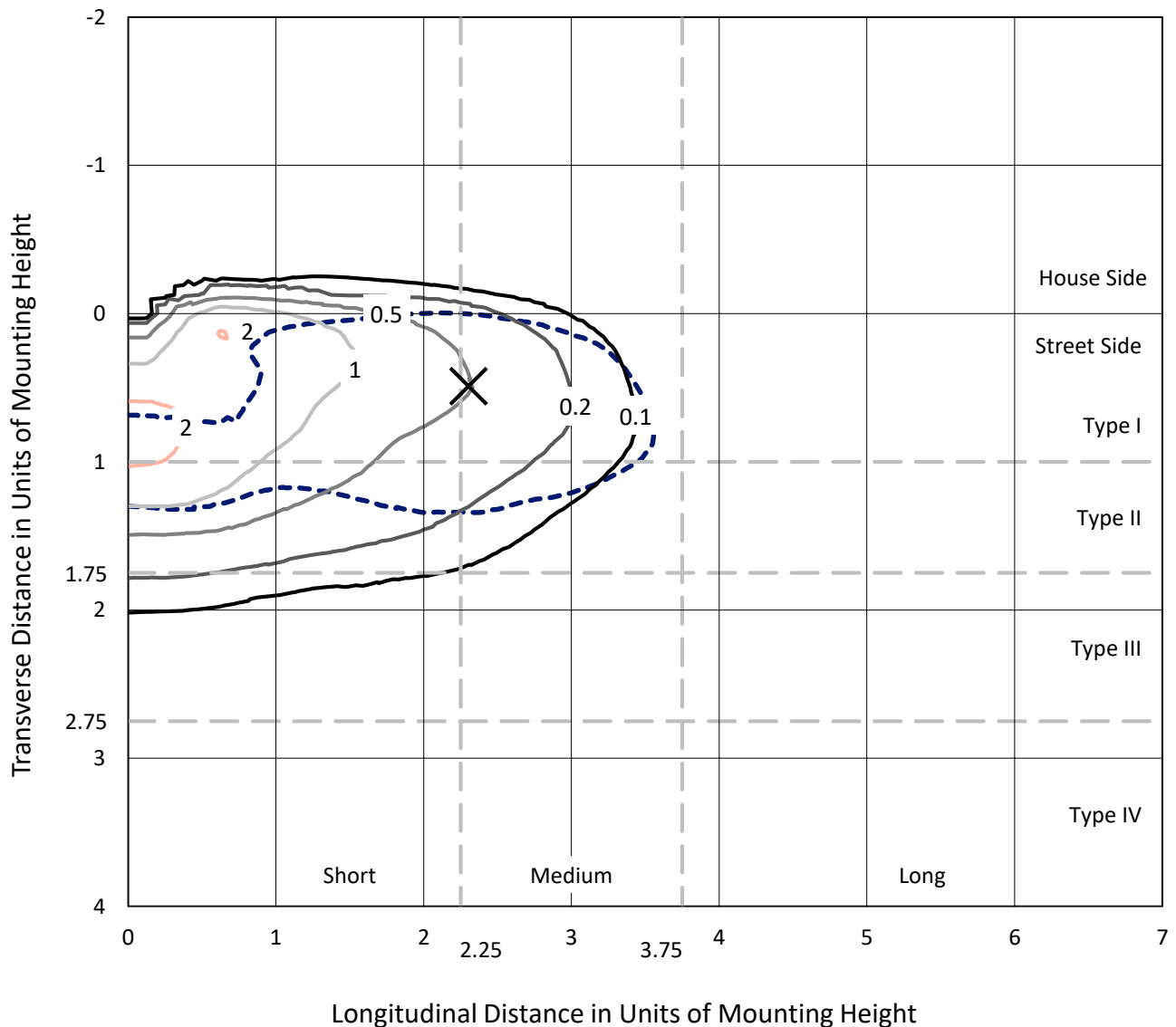
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

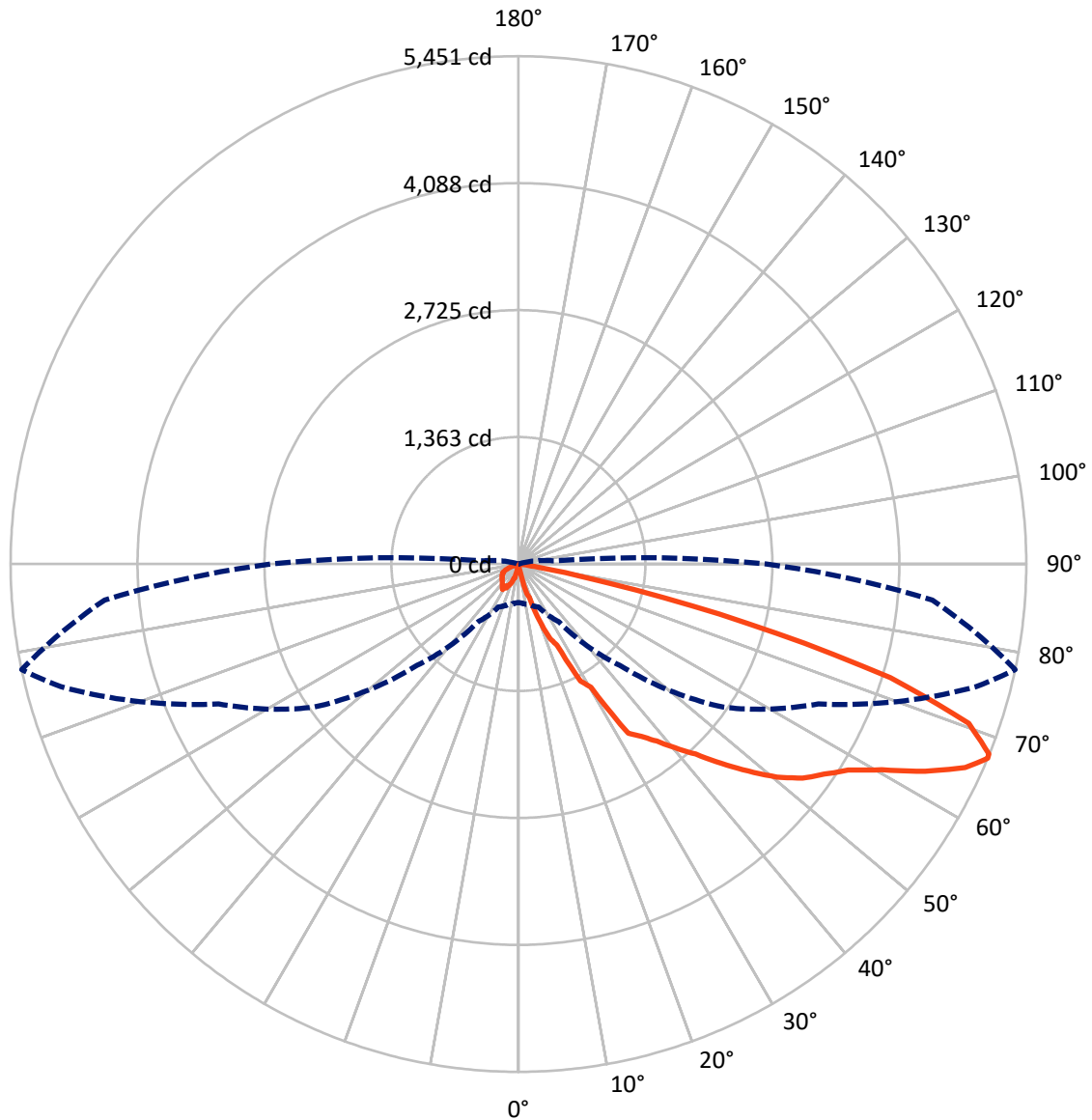
× Max cd  
 - - - 1/2 Max cd



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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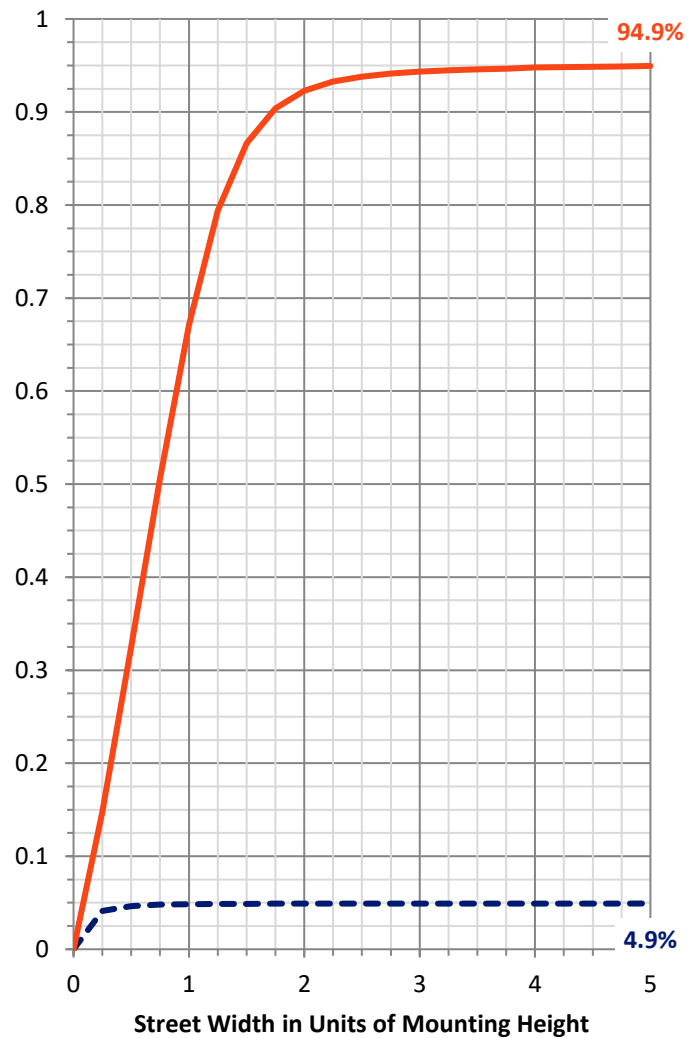
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	264.2	0.0	264.2
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	5071.8	0.0	5071.8
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	5336.0	0.0	5336.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.0	0.1
10°-20°	72.7	1.4
20°-30°	289.7	5.4
30°-40°	737.0	13.8
40°-50°	1206.8	22.6
50°-60°	1360.8	25.5
60°-70°	1173.4	22.0
70°-80°	472.0	8.8
80°-90°	18.5	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°	5336.0	100.0
0°-180°	5336.0	100.0



--- HS    — SS

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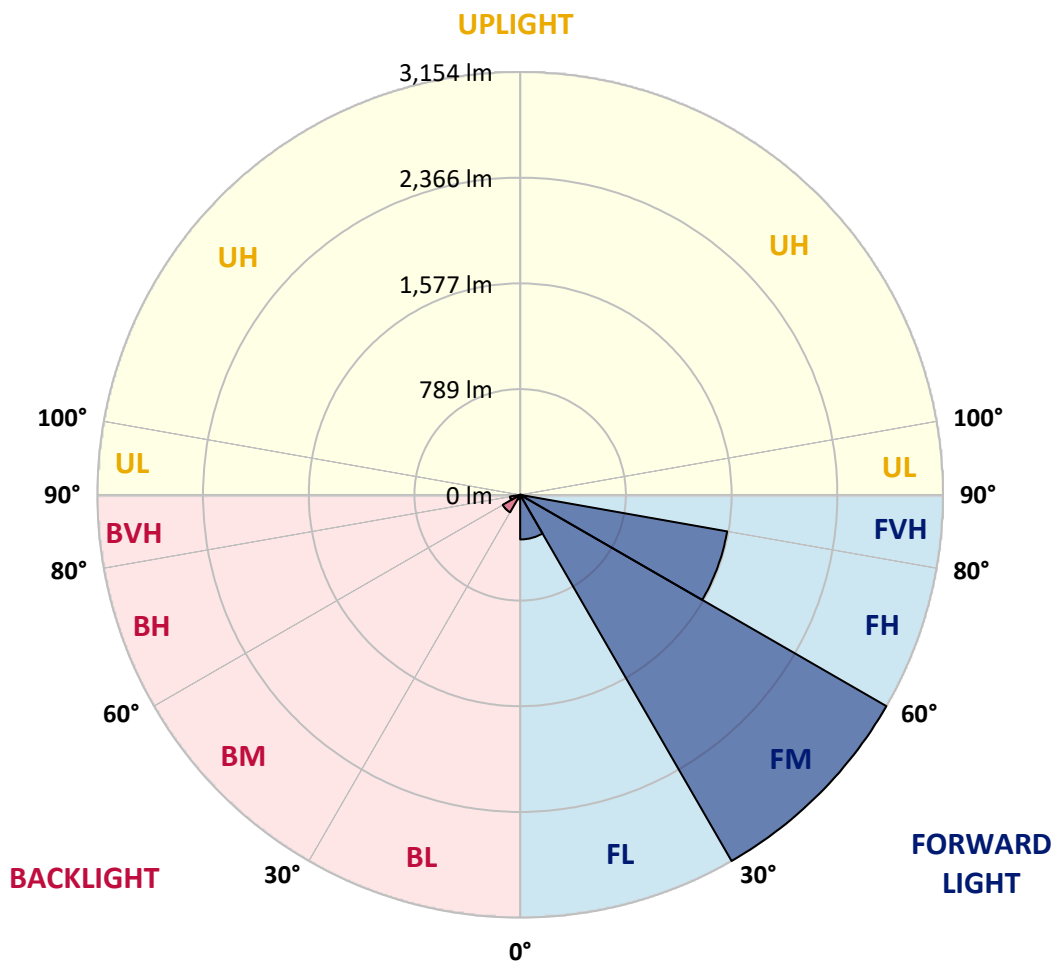
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	332.8	6.2			
FM	(30°-60°)	3154.1	59.1			
FH	(60°-80°)	1568.2	29.4			G1/1800
FVH	(80°-90°)	16.6	0.3			G1/100
BL	(0°-30°)	34.7	0.6	B0/110		
BM	(30°-60°)	150.4	2.8	B0/220		
BH	(60°-80°)	77.2	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°	223.5	175.0	124.2	36.0	14.0	6.6	2.9	2.2	2.2	2.2	1.5
7.5°	249.2	247.0	244.0	242.6	238.2	230.8	16.2	2.9	2.2	2.2	2.2
10°	266.8	262.4	261.7	261.0	258.0	252.1	241.1	14.0	2.2	2.2	2.2
12.5°	535.9	533.7	524.9	307.3	276.4	270.5	261.0	187.4	14.7	123.5	133.8
15°	529.3	527.8	533.7	545.4	556.5	297.0	424.1	535.1	328.6	314.6	327.8
17.5°	547.6	546.9	537.3	546.9	563.8	657.9	605.7	583.7	364.6	380.8	349.9
20°	820.4	818.9	827.0	777.7	585.1	819.6	760.8	632.2	716.0	657.9	660.8
22.5°	861.5	864.5	862.3	879.2	1015.9	846.8	946.8	982.8	994.6	871.1	752.0
25°	1264.3	1246.0	1207.7	933.6	1095.3	1050.4	1202.6	1062.2	1069.6	963.7	963.7
27.5°	1416.5	1416.5	1384.9	1348.9	1162.2	1348.9	1265.8	1395.2	1521.6	1421.7	1207.0
30°	1922.3	1907.6	1588.5	1542.9	1446.7	1427.5	1528.2	1637.8	1581.9	1534.9	1357.7
32.5°	2285.4	2286.9	2206.0	1959.0	1720.1	1592.2	1770.1	1806.8	2109.0	2164.1	1840.7
35°	2916.1	2879.3	2483.9	2259.7	2024.4	1939.2	1930.3	2116.3	2289.8	2270.7	1995.0
37.5°	3316.7	3291.0	3099.9	2596.3	2294.9	2103.8	2218.5	2227.3	2508.1	2411.8	2179.5
40°	3500.5	3488.7	3327.0	2899.2	2532.4	2328.8	2365.5	2394.2	2727.2	2594.9	2334.6
42.5°	3649.0	3637.9	3490.9	3051.3	2760.3	2544.1	2530.9	2536.1	2904.3	2788.2	2491.2
45°	3720.3	3713.7	3650.4	3185.9	2859.5	2683.8	2711.0	2677.9	3058.7	3051.3	2664.7
47.5°	3651.2	3654.9	3672.5	3305.0	2932.3	2794.1	2886.0	2833.0	3242.5	3319.7	2860.2
50°	3407.9	3406.4	3507.1	3322.6	2974.2	2882.3	3040.3	2979.3	3460.8	3594.6	3036.6
52.5°	2658.8	2756.6	3121.2	3132.9	2964.6	2926.4	3156.5	3147.6	3666.6	3818.0	3213.1
55°	2000.9	2040.6	2386.8	2717.6	2841.1	2921.2	3197.6	3260.8	3818.8	3981.2	3351.3
57.5°	1572.4	1559.1	1748.8	2190.6	2529.4	2834.5	3188.1	3305.0	3967.3	4172.4	3533.6
60°	1150.4	1162.2	1312.9	1588.5	2080.3	2637.5	3158.7	3376.3	4202.5	4481.1	3804.8
62.5°	834.3	834.3	938.0	1106.3	1593.7	2321.4	3094.7	3476.2	4570.8	4900.1	4127.5
65°	561.6	557.9	635.1	721.1	1091.6	1920.8	2922.7	3569.6	4923.6	5268.4	4404.6
67°	413.1	421.2	452.8	509.4	754.9	1538.5	2677.2	3551.2	5086.1	5450.7	4459.0
67.5°	386.7	390.3	433.7	483.7	696.1	1437.1	2607.4	3529.2	5103.7	5446.3	4431.1
70°	280.8	286.7	310.2	324.9	421.2	948.3	2081.0	3182.2	4846.4	5127.2	4029.0
72.5°	150.7	163.2	225.7	224.2	261.7	578.5	1415.0	2361.8	3983.4	4173.8	3092.5
75°	117.6	119.1	134.5	166.1	169.1	322.0	680.7	1372.4	2519.9	2533.8	1717.2
77.5°	86.0	89.7	99.2	105.1	110.3	183.0	238.2	545.4	1115.9	974.7	643.2
80°	58.1	60.3	65.4	77.9	90.4	103.6	77.2	145.5	262.4	203.6	96.3
82.5°	25.0	24.3	45.6	65.4	64.7	42.6	39.0	45.6	52.2	47.8	29.4
85°	1.5	2.2	23.5	31.6	27.2	18.4	24.3	19.1	19.8	19.1	14.7
87.5°	0.7	0.7	2.2	2.9	3.7	3.7	4.4	4.4	5.9	6.6	5.9
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°	1.5	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	8.1	22.1	23.5	22.8
10°	2.2	2.2	2.2	2.2	1.5	19.1	26.5	25.0	24.3	23.5	23.5
12.5°	133.8	113.2	20.6	4.4	19.1	24.3	21.3	21.3	20.6	20.6	20.6
15°	292.6	245.5	115.4	39.0	30.1	20.6	19.1	19.1	31.6	34.5	33.8
17.5°	306.5	247.7	113.2	52.9	43.4	26.5	26.5	33.8	33.1	31.6	31.6
20°	582.9	382.2	130.8	52.2	39.7	41.9	31.6	29.4	27.9	26.5	26.5
22.5°	623.4	449.1	140.4	66.2	42.6	41.9	32.3	27.2	34.5	33.8	33.8
25°	804.9	542.5	127.2	61.7	55.1	38.2	34.5	30.1	29.4	27.9	27.9
27.5°	997.5	641.7	140.4	64.0	50.0	37.5	32.3	26.5	27.9	30.9	30.9
30°	1093.8	642.5	111.0	65.4	47.8	38.2	28.7	29.4	27.9	27.2	26.5
32.5°	1468.0	824.8	106.6	62.5	44.8	33.1	29.4	25.7	23.5	25.7	25.7
35°	1534.1	796.1	92.6	63.2	40.4	30.1	25.0	23.5	23.5	22.8	22.8
37.5°	1606.9	765.2	81.6	55.9	39.0	27.2	21.3	21.3	20.6	22.1	22.1
40°	1687.0	732.9	72.8	48.5	33.1	22.8	19.1	18.4	19.1	19.1	18.4
42.5°	1780.4	701.3	65.4	42.6	27.9	19.1	15.4	15.4	15.4	14.7	14.7
45°	1880.4	676.3	60.3	36.8	23.5	16.2	12.5	11.8	11.0	11.0	11.0
47.5°	1998.7	666.0	55.9	30.9	19.8	12.5	9.6	8.8	8.1	7.4	7.4
50°	2097.9	661.6	49.3	25.7	16.9	10.3	6.6	5.9	5.1	4.4	4.4
52.5°	2185.4	642.5	42.6	20.6	13.2	7.4	4.4	2.9	2.2	2.2	2.2
55°	2272.2	624.8	36.8	17.6	9.6	4.4	2.2	0.7	0.7	1.5	1.5
57.5°	2379.5	605.0	31.6	14.7	7.4	2.9	1.5	0.0	0.7	0.7	1.5
60°	2547.8	584.4	27.9	12.5	5.1	2.2	0.7	0.0	0.0	0.7	0.7
62.5°	2698.5	548.4	24.3	11.0	4.4	2.2	0.7	0.0	0.0	0.0	0.7
65°	2763.9	474.1	21.3	9.6	4.4	2.2	0.7	0.0	0.0	0.0	0.0
67°	2654.4	383.7	19.1	8.8	3.7	1.5	0.7	0.0	0.0	0.0	0.0
67.5°	2602.9	358.0	19.1	8.1	3.7	1.5	0.7	0.7	0.0	0.0	0.0
70°	2209.7	237.4	16.9	7.4	3.7	1.5	1.5	0.7	0.0	0.0	0.0
72.5°	1695.8	138.2	14.7	6.6	3.7	1.5	1.5	0.7	0.7	0.0	0.0
75°	948.3	69.8	11.8	6.6	3.7	2.2	2.2	1.5	1.5	1.5	0.0
77.5°	303.6	38.2	8.8	5.9	3.7	2.2	2.2	1.5	2.2	2.2	0.7
80°	47.8	19.8	6.6	4.4	3.7	1.5	2.2	2.2	2.9	2.9	0.7
82.5°	17.6	11.0	5.1	4.4	3.7	1.5	2.2	2.2	2.9	3.7	0.0
85°	8.1	6.6	5.1	4.4	3.7	1.5	2.2	2.2	2.9	3.7	0.0
87.5°	3.7	5.1	4.4	4.4	3.7	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)