

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: McGRAW-EDISON

Report Number: P594202

Luminaire Tested: **ISC-PA1D-727-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1D-727-U-T2U-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5241 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

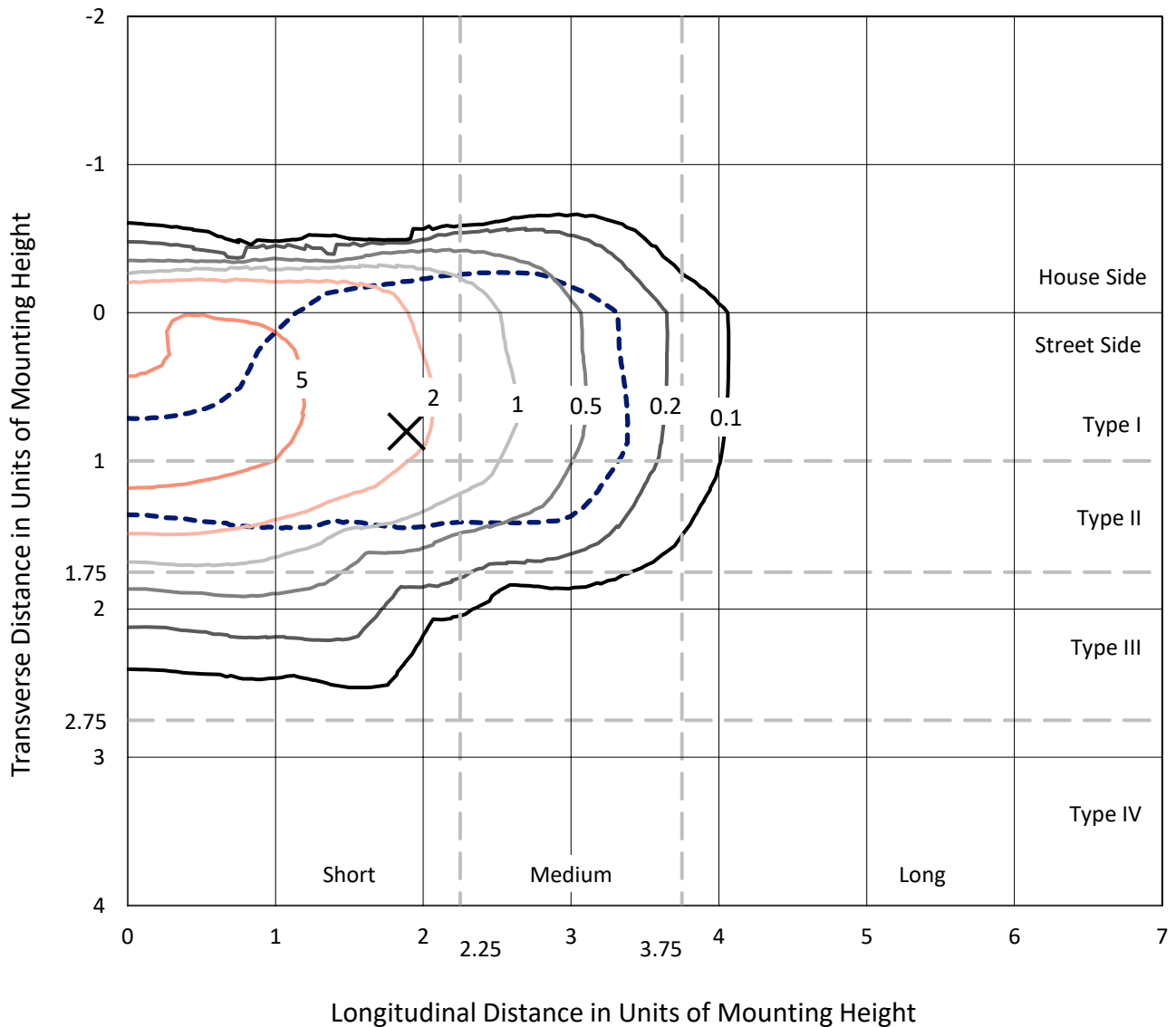
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

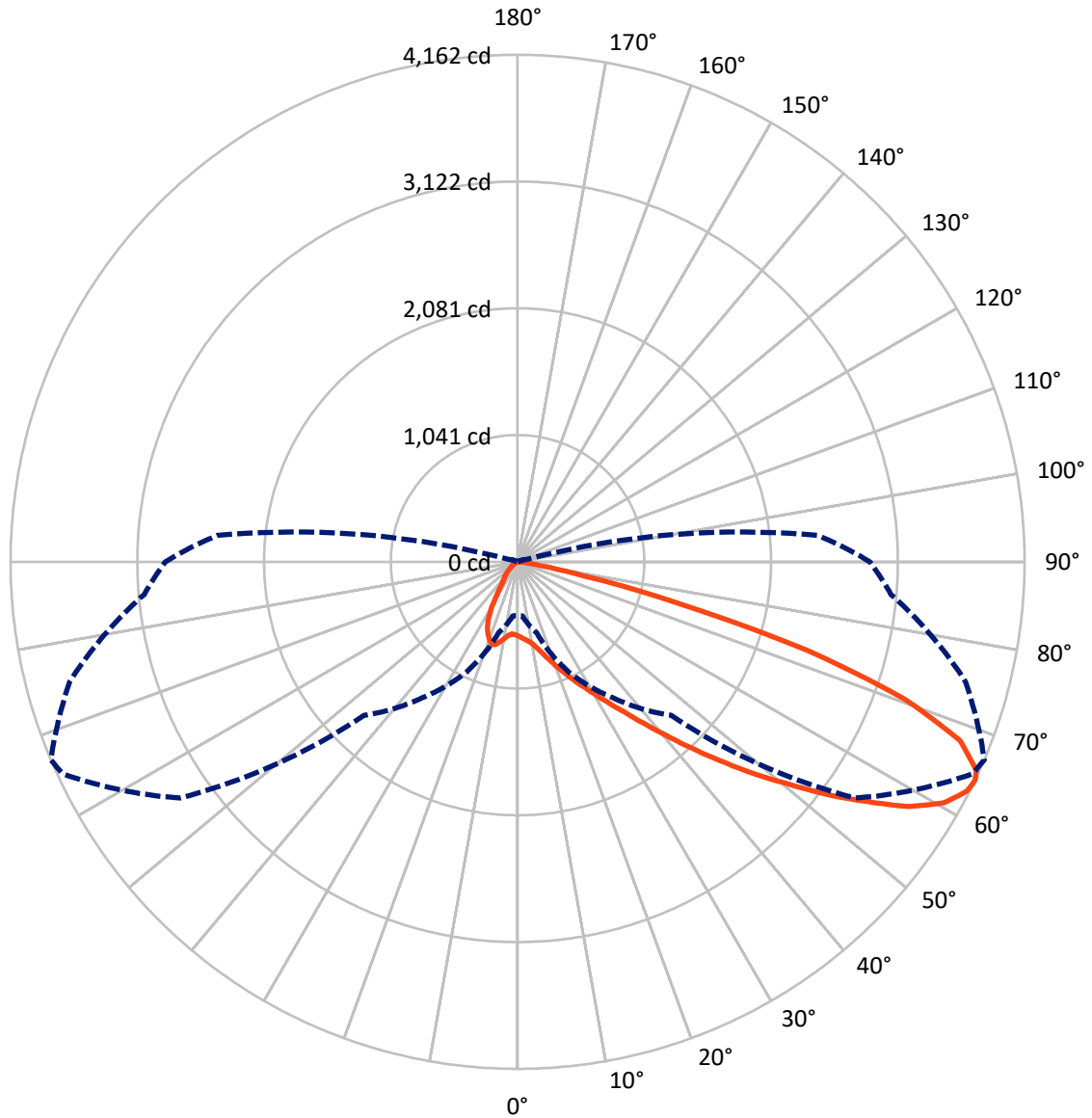
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	670.4	0.0	670.4
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	4570.6	0.0	4570.6
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	5241.0	0.0	5241.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.8	1.1
10°-20°	170.5	3.3
20°-30°	309.4	5.9
30°-40°	592.6	11.3
40°-50°	1092.3	20.8
50°-60°	1410.7	26.9
60°-70°	1155.5	22.0
70°-80°	424.8	8.1
80°-90°	27.4	0.5
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°	5241.0	100.0
0°-180°	5241.0	100.0

**Coefficient of Utilization**



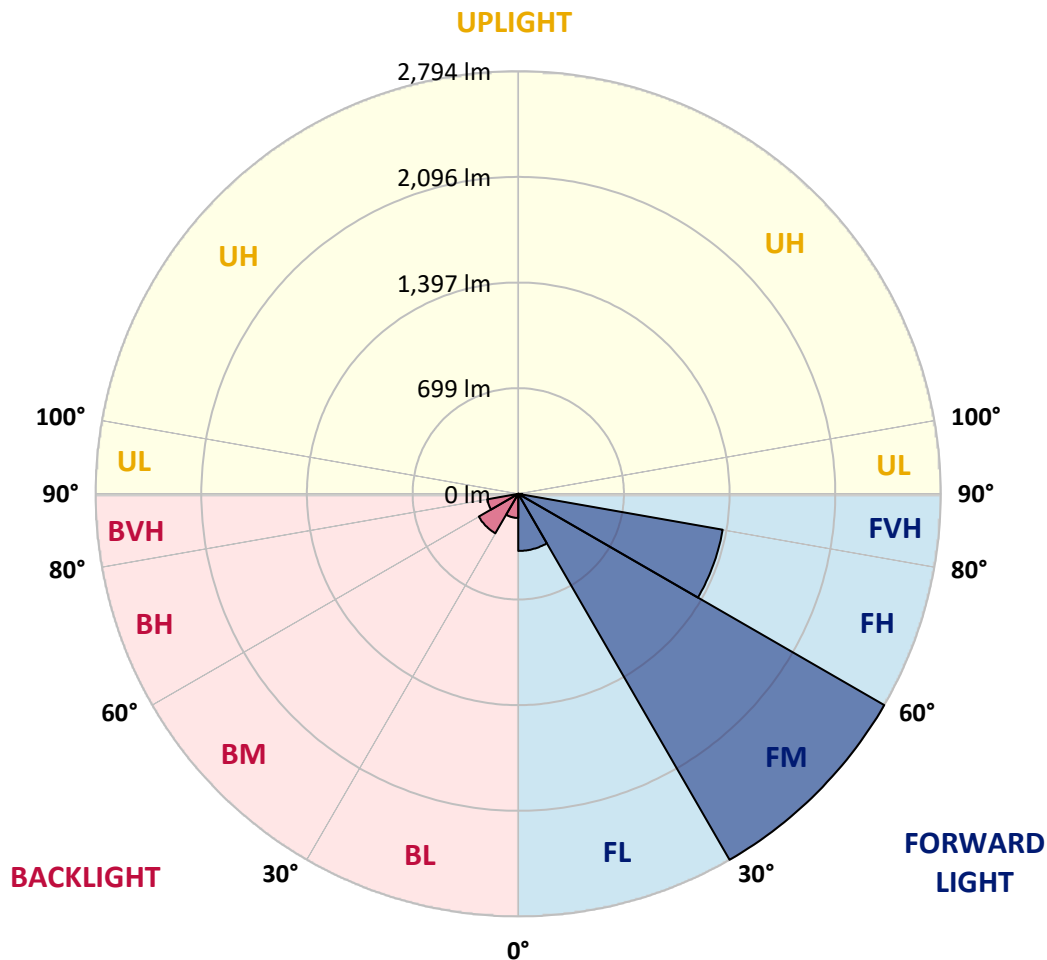
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	377.9	7.2			
FM (30°-60°)	2794.2	53.3			
FH (60°-80°)	1372.3	26.2			G1/1800
FVH (80°-90°)	26.2	0.5			G1/100
BL (0°-30°)	159.8	3.0	B1/500		
BM (30°-60°)	301.4	5.8	B1/1000		
BH (60°-80°)	208.0	4.0	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	609.0	609.0	609.0	609.0	609.0	609.0	609.0	609.0	609.0	609.0	609.0
2.5°	630.6	630.6	634.2	632.4	632.4	628.8	623.4	625.2	623.4	621.6	616.2
5°	619.8	621.6	623.4	627.0	634.2	637.8	637.8	639.6	639.6	637.8	630.6
7.5°	614.4	618.0	621.6	625.2	634.2	639.6	648.6	659.4	659.4	661.2	654.0
10°	634.2	637.8	643.2	648.6	657.6	666.6	673.8	686.5	686.5	690.1	688.3
12.5°	675.6	675.6	677.4	681.0	693.7	704.5	717.1	727.9	729.7	731.5	726.1
15°	726.1	726.1	727.9	727.9	735.1	751.3	774.7	785.5	783.7	781.9	771.1
17.5°	783.7	783.7	783.7	785.5	789.1	798.2	825.2	846.8	845.0	843.2	821.6
20°	837.8	841.4	845.0	846.8	850.4	857.6	886.4	911.7	917.1	909.9	872.0
22.5°	899.1	900.9	902.7	908.1	917.1	920.7	949.5	987.3	992.7	983.7	933.3
25°	960.3	963.9	969.3	976.5	985.5	1003.6	1023.4	1073.8	1079.2	1068.4	999.9
27.5°	1095.4	1093.6	1077.4	1064.8	1066.6	1079.2	1106.3	1160.3	1165.7	1154.9	1066.6
30°	1326.1	1304.4	1273.8	1218.0	1163.9	1169.3	1207.1	1259.4	1268.4	1254.0	1140.5
32.5°	1654.0	1632.4	1556.7	1434.2	1315.2	1275.6	1324.3	1374.7	1385.5	1369.3	1227.0
35°	1972.9	1967.5	1895.4	1747.7	1545.9	1436.0	1448.6	1513.4	1517.0	1497.2	1335.1
37.5°	2367.4	2347.6	2248.5	2082.8	1845.0	1648.6	1612.5	1673.8	1682.8	1659.4	1466.6
40°	2628.7	2621.5	2562.0	2444.9	2189.1	1942.2	1812.5	1872.0	1870.2	1835.9	1617.9
42.5°	2780.0	2783.6	2780.0	2724.2	2578.2	2295.4	2077.4	2081.0	2086.4	2050.3	1792.7
45°	2882.7	2882.7	2888.1	2933.2	2877.3	2717.0	2399.9	2318.8	2326.0	2270.2	1974.7
47.5°	2880.9	2891.7	2920.6	3025.1	3100.7	3109.8	2803.5	2596.3	2592.7	2508.0	2162.1
50°	2686.4	2679.1	2798.1	3032.3	3259.3	3434.1	3185.4	2889.9	2859.3	2754.8	2356.6
52.5°	2248.5	2272.0	2470.1	2814.3	3297.1	3653.9	3515.1	3210.6	3171.0	2999.8	2527.8
55°	1866.6	1891.8	2084.6	2421.5	3091.7	3731.3	3736.7	3551.2	3471.9	3212.5	2704.4
57.5°	1401.7	1450.4	1735.0	2052.1	2641.3	3538.6	3816.0	3877.3	3790.8	3417.8	2848.5
60°	895.5	924.3	1243.2	1634.2	2140.4	3034.1	3799.8	4066.5	4019.6	3605.2	2969.2
62.5°	585.6	601.8	821.6	1230.6	1630.5	2286.4	3607.0	4142.1	4142.1	3731.3	3059.3
64°	441.4	445.0	601.8	999.9	1360.3	1781.9	3380.0	4118.7	4162.0	3807.0	3077.3
65°	349.5	351.3	470.2	830.6	1221.6	1461.2	3181.8	4068.3	4138.5	3835.8	3088.1
67.5°	245.0	250.4	304.5	479.3	875.6	843.2	2358.4	3830.4	3916.9	3844.9	3073.7
70°	212.6	219.8	255.8	313.5	625.2	490.1	1254.0	3264.7	3367.4	3581.8	2861.1
72.5°	162.2	171.2	214.4	264.9	439.6	331.5	484.7	2318.8	2481.0	2769.2	2362.0
75°	117.1	120.7	158.6	216.2	308.1	255.8	209.0	1196.3	1360.3	1634.2	1468.4
77.5°	73.9	79.3	108.1	162.2	275.7	194.6	124.3	436.0	549.5	711.7	641.4
80°	43.2	45.0	64.9	111.7	185.6	144.1	79.3	154.9	187.4	264.9	171.2
82.5°	25.2	27.0	41.4	75.7	120.7	111.7	50.4	79.3	88.3	100.9	36.0
85°	9.0	9.0	28.8	45.0	64.9	55.9	28.8	41.4	45.0	55.9	10.8
87.5°	1.8	1.8	14.4	23.4	23.4	9.0	14.4	18.0	21.6	30.6	3.6
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°	609.0	609.0	609.0	609.0	609.0	609.0	609.0	609.0	609.0	609.0	609.0
2.5°	614.4	609.0	603.6	596.4	591.0	580.2	574.7	567.5	565.7	562.1	560.3
5°	628.8	619.8	607.2	589.2	578.3	562.1	551.3	540.5	538.7	535.1	533.3
7.5°	648.6	639.6	623.4	603.6	585.6	569.3	556.7	540.5	524.3	511.7	511.7
10°	681.0	670.2	648.6	630.6	609.0	574.7	515.3	461.2	427.0	405.4	398.2
12.5°	720.7	706.3	682.8	661.2	619.8	511.7	419.8	349.5	291.9	264.9	259.4
15°	762.1	749.5	726.1	693.7	569.3	427.0	306.3	198.2	142.3	117.1	120.7
17.5°	807.2	789.1	762.1	697.3	500.9	318.9	164.0	100.9	86.5	82.9	82.9
20°	854.0	830.6	803.6	657.6	412.6	183.8	93.7	75.7	70.3	64.9	66.7
22.5°	904.5	875.6	834.2	598.2	295.5	99.1	72.1	61.3	54.1	52.2	52.2
25°	958.5	917.1	864.8	529.7	171.2	75.7	59.5	48.6	43.2	41.4	39.6
27.5°	1016.2	963.9	872.0	439.6	97.3	63.1	46.8	37.8	32.4	30.6	30.6
30°	1068.4	1010.8	855.8	326.1	73.9	52.2	37.8	28.8	25.2	25.2	25.2
32.5°	1138.7	1063.0	805.4	203.6	59.5	41.4	28.8	23.4	19.8	19.8	19.8
35°	1230.6	1140.5	754.9	108.1	48.6	34.2	23.4	18.0	16.2	16.2	16.2
37.5°	1356.7	1243.2	709.9	68.5	39.6	27.0	18.0	14.4	12.6	12.6	12.6
40°	1486.4	1365.7	646.8	52.2	32.4	21.6	14.4	10.8	9.0	9.0	10.8
42.5°	1648.6	1508.0	574.7	45.0	27.0	18.0	10.8	7.2	5.4	7.2	7.2
45°	1812.5	1657.6	473.8	37.8	23.4	14.4	7.2	3.6	3.6	5.4	5.4
47.5°	1981.9	1816.1	367.5	32.4	19.8	10.8	5.4	1.8	1.8	3.6	3.6
50°	2156.6	1972.9	273.9	28.8	16.2	9.0	3.6	1.8	0.0	1.8	1.8
52.5°	2331.4	2124.2	212.6	25.2	14.4	7.2	1.8	0.0	0.0	0.0	1.8
55°	2493.6	2261.1	169.4	21.6	12.6	5.4	1.8	0.0	0.0	0.0	0.0
57.5°	2630.5	2362.0	135.1	19.8	10.8	3.6	1.8	0.0	0.0	0.0	0.0
60°	2760.2	2441.3	104.5	16.2	9.0	3.6	1.8	0.0	0.0	0.0	0.0
62.5°	2852.1	2471.9	84.7	14.4	7.2	3.6	0.0	0.0	0.0	0.0	0.0
64°	2891.7	2475.6	73.9	12.6	7.2	3.6	1.8	0.0	0.0	0.0	0.0
65°	2915.2	2464.7	68.5	12.6	7.2	3.6	1.8	0.0	0.0	0.0	0.0
67.5°	2920.6	2405.3	52.2	10.8	5.4	1.8	1.8	0.0	0.0	0.0	0.0
70°	2762.0	2198.1	37.8	7.2	3.6	1.8	0.0	0.0	0.0	0.0	0.0
72.5°	2308.0	1679.2	25.2	5.4	3.6	1.8	0.0	0.0	0.0	0.0	0.0
75°	1441.4	726.1	14.4	5.4	1.8	1.8	0.0	0.0	0.0	0.0	0.0
77.5°	596.4	219.8	9.0	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0
80°	136.9	52.2	3.6	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	32.4	9.0	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
85°	7.2	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	1.8	1.8	1.8	1.8	1.8	0.0	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)