

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: P594213

Luminaire Tested: **ISC-PA1D-730-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594213  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1D-730-U-T3-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5883 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

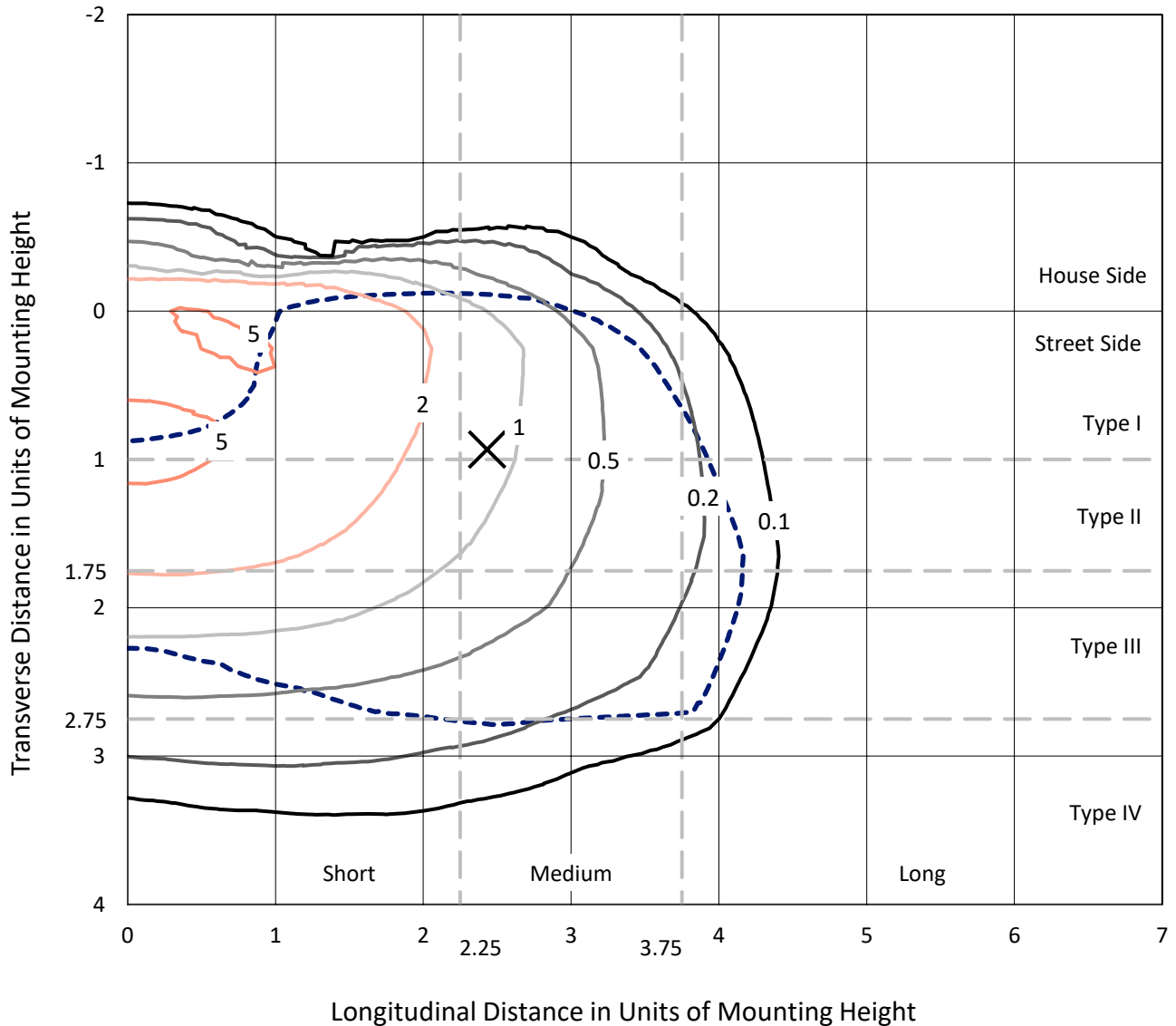
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

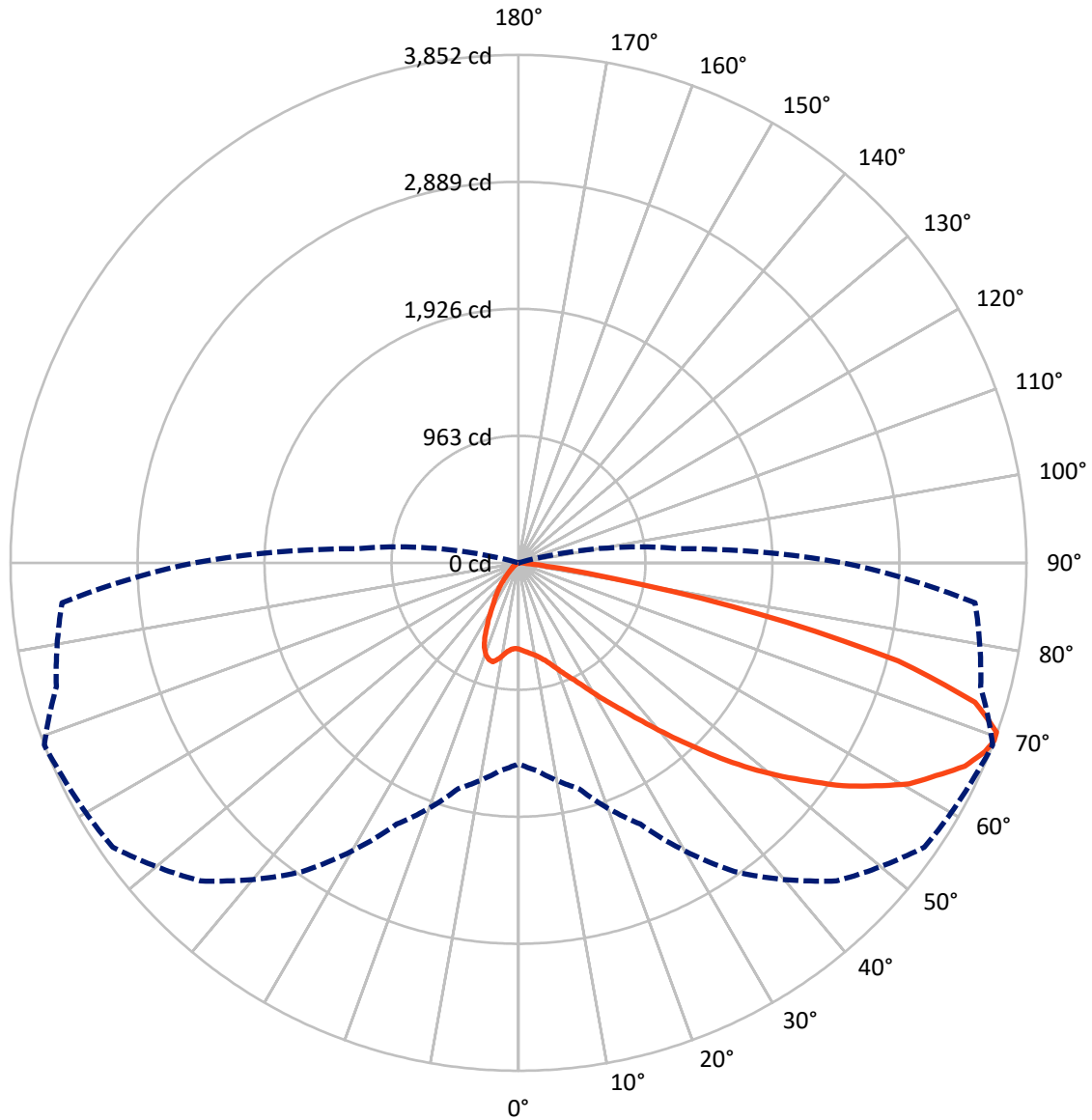
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	573.3	0.0	573.3
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	5309.8	0.0	5309.8
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	5883.0	0.0	5883.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.4	1.1
10°-20°	165.1	2.8
20°-30°	274.9	4.7
30°-40°	494.9	8.4
40°-50°	897.3	15.3
50°-60°	1402.2	23.8
60°-70°	1622.4	27.6
70°-80°	907.3	15.4
80°-90°	56.6	1.0
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°	5883.0	100.0
0°-180°	5883.0	100.0

**Coefficient of Utilization**



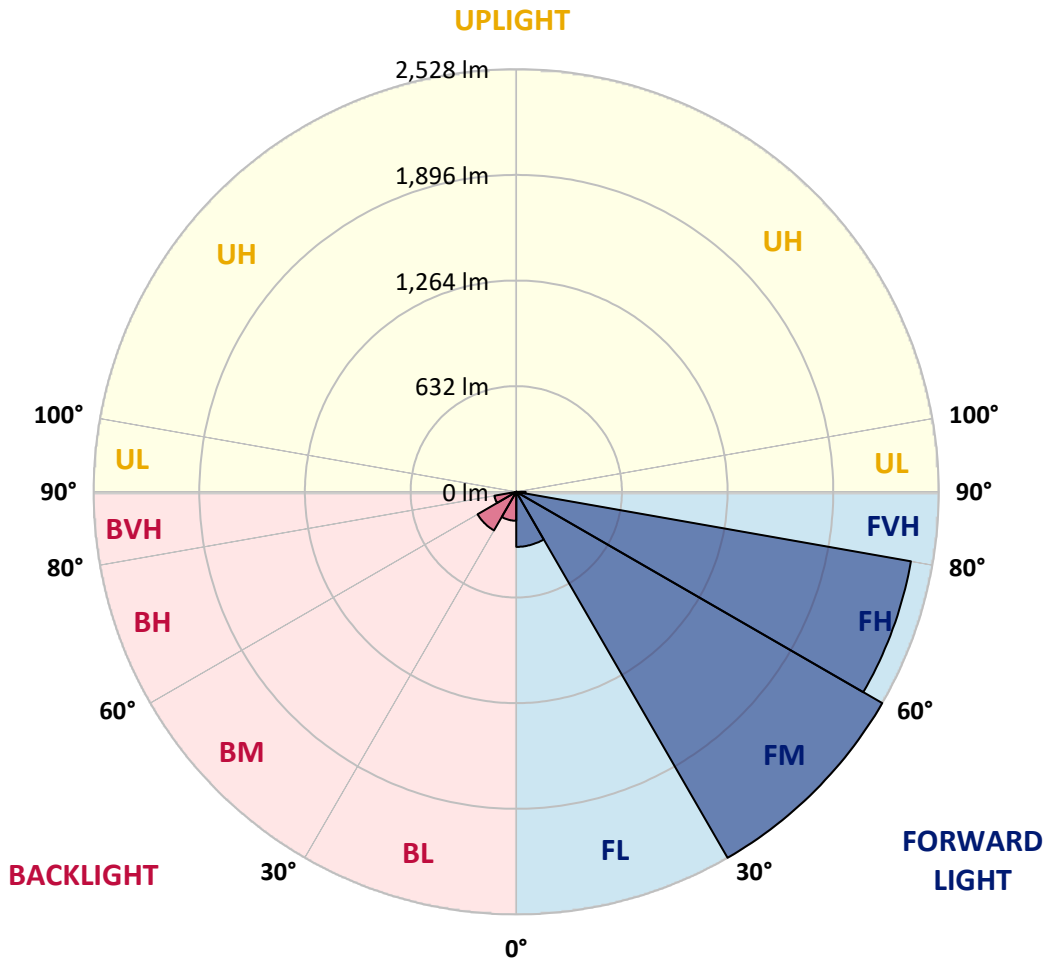
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	329.1	5.6			
FM (30°-60°)	2527.5	43.0			
FH (60°-80°)	2396.9	40.7			G2/5000
FVH (80°-90°)	56.2	1.0			G1/100
BL (0°-30°)	173.2	2.9	B1/500		
BM (30°-60°)	266.9	4.5	B1/1000		
BH (60°-80°)	132.7	2.3	B1/500		G1/500
BVH (80°-90°)	0.4	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4
2.5°	677.9	677.9	677.9	674.0	675.9	674.0	672.0	666.1	668.1	666.1	660.3
5°	654.4	656.3	662.2	666.1	675.9	679.9	681.8	681.8	679.9	675.9	672.0
7.5°	609.3	609.3	615.2	627.0	646.6	668.1	685.7	695.5	697.5	697.5	691.6
10°	597.6	597.6	605.4	613.2	632.8	658.3	685.7	709.2	713.2	717.1	715.1
12.5°	591.7	593.7	601.5	615.2	640.7	664.2	693.6	726.9	738.6	748.4	750.4
15°	599.5	599.5	607.4	621.1	650.5	683.8	721.0	758.2	770.0	783.7	793.5
17.5°	611.3	615.2	619.1	632.8	660.3	701.4	750.4	799.4	813.1	830.7	838.6
20°	630.9	630.9	634.8	646.6	675.9	724.9	793.5	852.3	864.0	875.8	885.6
22.5°	654.4	656.3	656.3	666.1	699.5	752.4	830.7	903.2	922.8	928.7	932.6
25°	724.9	721.0	707.3	701.4	726.9	783.7	875.8	964.0	985.5	991.4	983.5
27.5°	871.9	856.2	819.0	779.8	775.9	832.7	936.5	1040.4	1063.9	1065.8	1038.4
30°	1056.0	1058.0	997.3	913.0	856.2	885.6	1003.1	1136.4	1159.9	1150.1	1107.0
32.5°	1283.3	1273.5	1228.4	1107.0	993.3	967.9	1075.6	1236.3	1263.7	1248.0	1191.2
35°	1477.3	1483.2	1428.3	1320.5	1177.5	1095.2	1163.8	1348.0	1381.3	1353.8	1283.3
37.5°	1639.9	1647.7	1614.4	1526.3	1398.9	1269.6	1279.4	1479.2	1524.3	1496.9	1408.7
40°	1820.1	1826.0	1812.3	1716.3	1602.7	1477.3	1434.2	1630.1	1690.8	1653.6	1561.5
42.5°	2018.0	2039.6	2016.1	1939.7	1822.1	1714.3	1649.7	1814.3	1875.0	1851.5	1728.1
45°	2288.4	2290.4	2262.9	2186.5	2065.0	1976.9	1898.5	2010.2	2088.6	2059.2	1914.2
47.5°	2488.2	2502.0	2486.3	2433.4	2335.4	2276.6	2168.9	2225.7	2308.0	2270.8	2106.2
50°	2641.1	2678.3	2664.6	2680.3	2631.3	2605.8	2441.2	2449.1	2529.4	2498.0	2302.1
52.5°	2725.3	2772.3	2776.3	2856.6	2897.7	2960.4	2705.7	2694.0	2744.9	2717.5	2502.0
55°	2713.6	2725.3	2823.3	2970.2	3130.9	3273.9	2964.3	2915.4	2985.9	2909.5	2713.6
57.5°	2599.9	2629.3	2801.7	2983.9	3268.0	3475.7	3187.7	3132.8	3191.6	3089.7	2931.0
60°	2437.3	2480.4	2701.8	2962.4	3348.4	3597.2	3405.2	3350.3	3403.2	3279.8	3177.9
62.5°	2290.4	2310.0	2513.7	2872.3	3301.3	3591.3	3573.7	3522.7	3554.1	3424.8	3389.5
65°	2080.7	2088.6	2290.4	2709.6	3197.5	3552.1	3665.8	3685.3	3718.7	3546.2	3540.4
67.5°	1757.4	1775.1	1974.9	2425.5	3025.1	3475.7	3738.2	3777.4	3816.6	3610.9	3567.8
69°	1524.3	1581.1	1773.1	2186.5	2858.5	3411.1	3757.8	3820.5	3851.9	3628.5	3475.7
70°	1334.2	1383.2	1604.6	2002.4	2711.6	3338.6	3771.6	3814.7	3846.0	3591.3	3324.8
72.5°	670.1	732.8	1036.4	1461.6	2155.2	3007.4	3701.0	3654.0	3620.7	3303.3	2690.0
75°	258.6	268.4	444.7	832.7	1348.0	2208.1	3160.3	3072.1	2974.1	2505.9	1594.8
77.5°	143.0	141.1	194.0	368.3	574.1	1079.5	2137.5	1996.5	1861.3	1346.0	646.6
80°	60.7	64.7	84.2	176.3	301.7	374.2	1038.4	922.8	734.7	427.1	154.8
82.5°	37.2	39.2	58.8	107.8	209.6	143.0	337.0	288.0	211.6	115.6	37.2
85°	11.8	13.7	41.1	72.5	101.9	58.8	76.4	66.6	58.8	49.0	11.8
87.5°	2.0	2.0	15.7	39.2	27.4	9.8	7.8	13.7	21.6	23.5	3.9
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°	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4
2.5°	658.3	654.4	650.5	648.5	648.5	644.6	642.6	640.7	640.7	638.7	638.7
5°	666.1	662.2	658.3	656.3	652.4	650.5	650.5	650.5	648.5	650.5	652.4
7.5°	685.7	679.9	677.9	675.9	675.9	670.1	660.3	634.8	609.3	601.5	593.7
10°	713.2	711.2	711.2	711.2	697.5	646.6	576.0	513.3	480.0	452.6	452.6
12.5°	752.4	752.4	750.4	744.5	674.0	550.5	440.8	346.8	291.9	260.6	264.5
15°	795.5	793.5	797.4	760.2	593.7	425.2	266.5	188.1	158.7	154.8	154.8
17.5°	840.5	844.4	840.5	719.0	487.9	262.5	158.7	143.0	139.1	139.1	139.1
20°	887.5	883.6	877.7	648.5	354.6	164.6	137.1	133.2	129.3	127.4	127.4
22.5°	934.6	930.6	891.5	558.4	221.4	135.2	129.3	121.5	115.6	113.6	113.6
25°	979.6	979.6	866.0	442.8	150.9	127.4	117.6	109.7	103.8	98.0	98.0
27.5°	1036.4	1040.4	824.8	309.6	127.4	117.6	105.8	94.0	86.2	82.3	82.3
30°	1101.1	1107.0	758.2	201.8	115.6	103.8	92.1	78.4	66.6	62.7	60.7
32.5°	1177.5	1183.4	681.8	133.2	103.8	90.1	76.4	58.8	47.0	45.1	43.1
35°	1275.5	1261.8	589.7	105.8	90.1	76.4	58.8	41.1	33.3	31.3	31.3
37.5°	1396.9	1367.6	483.9	92.1	76.4	60.7	43.1	27.4	21.6	21.6	19.6
40°	1536.1	1453.8	374.2	82.3	64.7	47.0	27.4	17.6	13.7	13.7	13.7
42.5°	1688.9	1526.3	266.5	72.5	52.9	33.3	17.6	9.8	7.8	7.8	7.8
45°	1865.2	1592.9	182.2	62.7	45.1	23.5	9.8	3.9	3.9	3.9	3.9
47.5°	2041.5	1636.0	121.5	54.9	33.3	13.7	5.9	2.0	2.0	2.0	2.0
50°	2219.8	1669.3	94.0	47.0	23.5	7.8	2.0	0.0	0.0	0.0	0.0
52.5°	2378.5	1692.8	76.4	39.2	15.7	5.9	2.0	0.0	0.0	0.0	0.0
55°	2515.7	1694.8	66.6	31.3	11.8	3.9	0.0	0.0	0.0	0.0	0.0
57.5°	2654.8	1679.1	56.8	23.5	7.8	2.0	0.0	0.0	0.0	0.0	0.0
60°	2739.0	1637.9	45.1	17.6	5.9	2.0	0.0	0.0	0.0	0.0	0.0
62.5°	2790.0	1569.4	35.3	11.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0
65°	2760.6	1483.2	25.5	7.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0
67.5°	2623.4	1349.9	17.6	5.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
69°	2460.8	1228.4	15.7	3.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
70°	2317.8	1134.4	13.7	3.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	1726.1	730.8	11.8	3.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	969.8	244.9	7.8	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	364.4	62.7	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	80.3	15.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.0	0.0	0.0	0.0	0.0	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)