

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: P594184

Luminaire Tested: **ISC-PA1C-830-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594184  
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-PA1C-830-U-T2U-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 80 CRI, 3000K, 615mA 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: 3998 lumens  
Efficiency: N/A  
Efficacy: 81.8 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

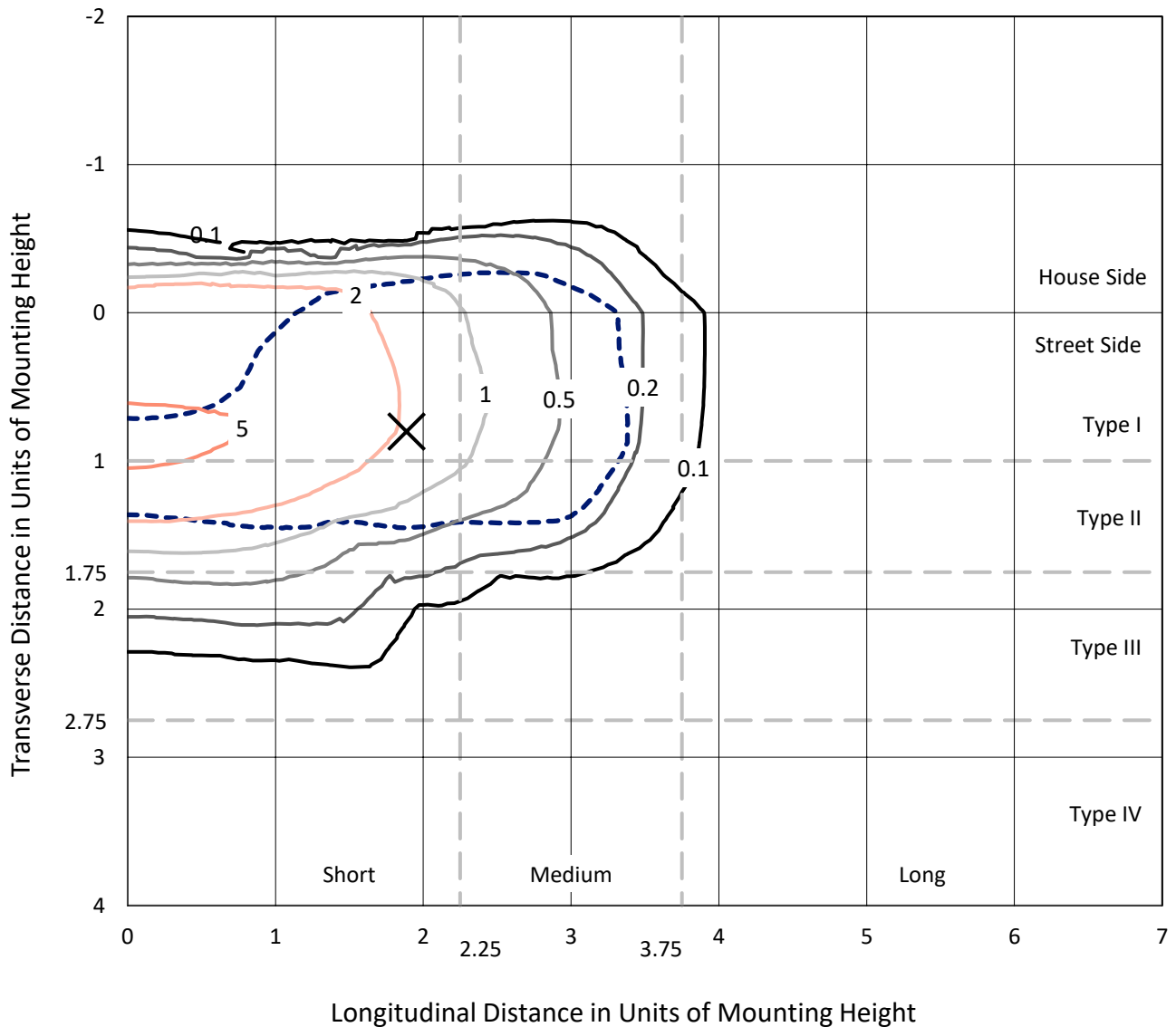
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

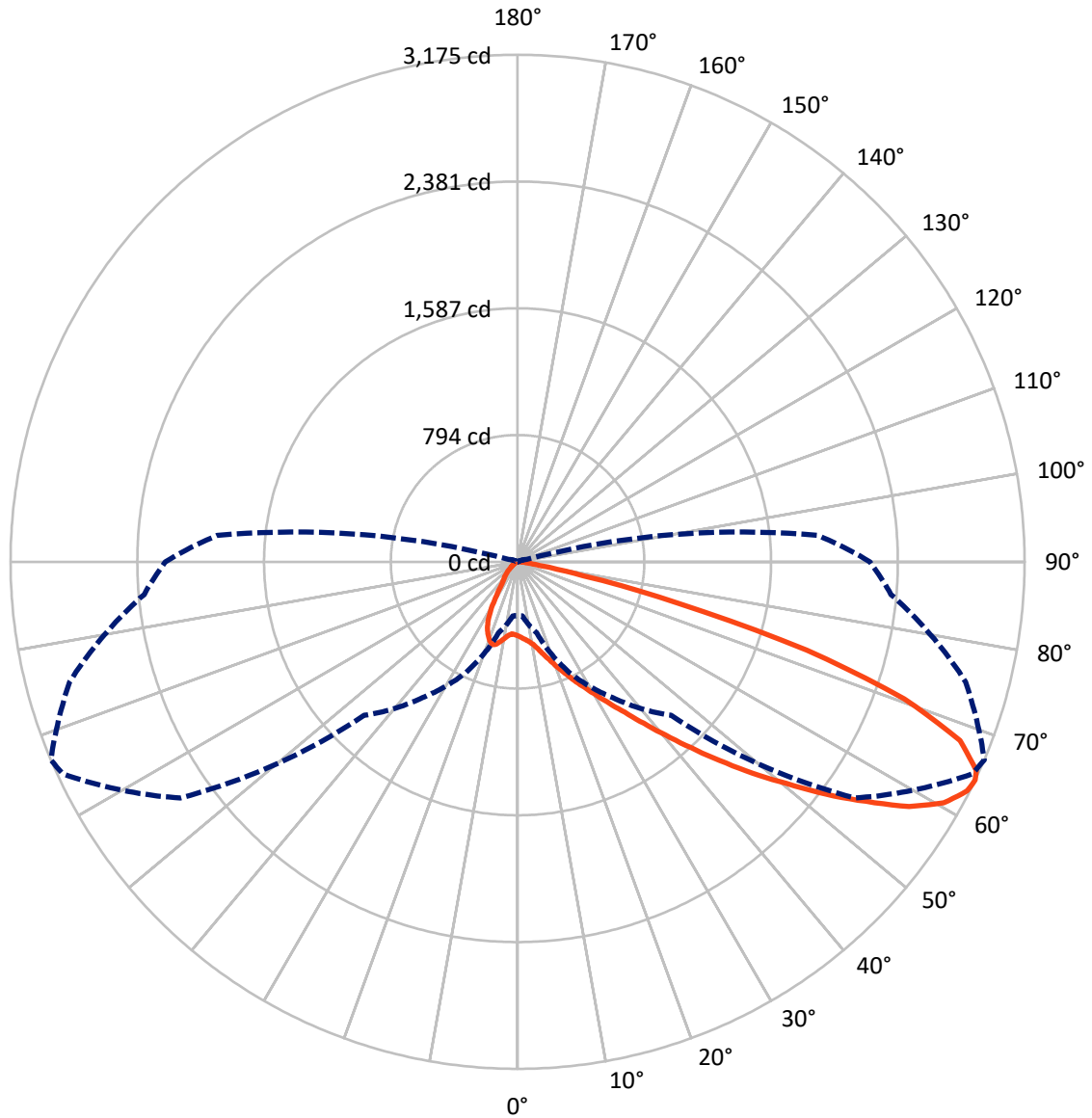
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.2 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	511.4	0.0	511.4
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	3486.6	0.0	3486.6
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	3998.0	0.0	3998.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.1	1.1
10°-20°	130.1	3.3
20°-30°	236.0	5.9
30°-40°	452.1	11.3
40°-50°	833.2	20.8
50°-60°	1076.2	26.9
60°-70°	881.5	22.0
70°-80°	324.0	8.1
80°-90°	20.9	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°	3998.0	100.0
0°-180°	3998.0	100.0

**Coefficient of Utilization**



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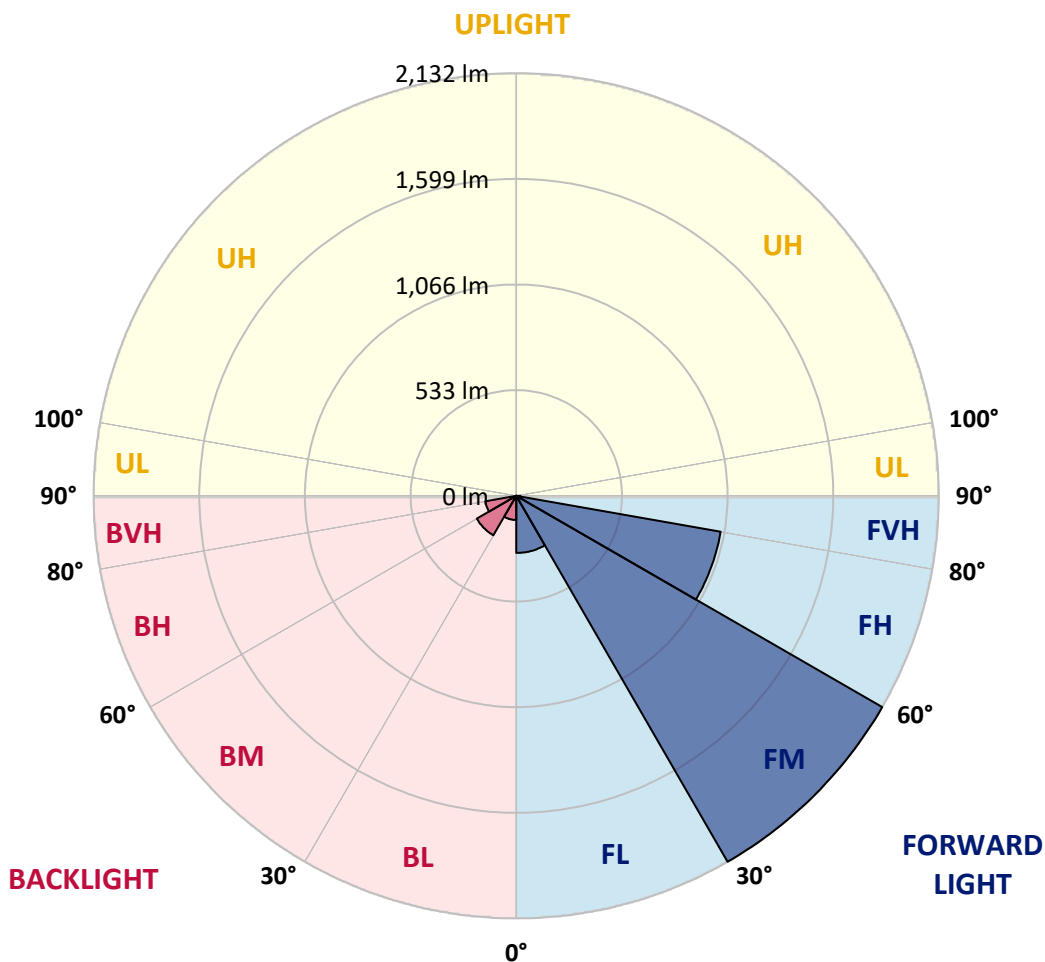
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	288.2	7.2			
FM (30°-60°)	2131.5	53.3			
FH (60°-80°)	1046.9	26.2			G1/1800
FVH (80°-90°)	20.0	0.5			G1/100
BL (0°-30°)	121.9	3.0	B1/500		
BM (30°-60°)	229.9	5.8	B1/1000		
BH (60°-80°)	158.7	4.0	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5
2.5°	481.0	481.0	483.8	482.4	482.4	479.7	475.5	476.9	475.5	474.2	470.0
5°	472.8	474.2	475.5	478.3	483.8	486.5	486.5	487.9	487.9	486.5	481.0
7.5°	468.7	471.4	474.2	476.9	483.8	487.9	494.8	503.0	503.0	504.4	498.9
10°	483.8	486.5	490.7	494.8	501.7	508.5	514.0	523.6	523.6	526.4	525.0
12.5°	515.4	515.4	516.8	519.5	529.1	537.4	547.0	555.3	556.6	558.0	553.9
15°	553.9	553.9	555.3	555.3	560.8	573.1	591.0	599.2	597.9	596.5	588.2
17.5°	597.9	597.9	597.9	599.2	602.0	608.9	629.5	646.0	644.6	643.2	626.7
20°	639.1	641.8	644.6	646.0	648.7	654.2	676.2	695.4	699.6	694.1	665.2
22.5°	685.8	687.2	688.6	692.7	699.6	702.3	724.3	753.2	757.3	750.4	711.9
25°	732.6	735.3	739.4	744.9	751.8	765.5	780.7	819.1	823.3	815.0	762.8
27.5°	835.6	834.3	821.9	812.3	813.6	823.3	843.9	885.1	889.2	881.0	813.6
30°	1011.6	995.1	971.7	929.1	887.9	892.0	920.8	960.7	967.6	956.6	870.0
32.5°	1261.7	1245.2	1187.5	1094.0	1003.3	973.1	1010.2	1048.7	1056.9	1044.5	936.0
35°	1505.0	1500.8	1445.9	1333.2	1179.2	1095.4	1105.0	1154.5	1157.2	1142.1	1018.4
37.5°	1806.0	1790.8	1715.3	1588.8	1407.4	1257.6	1230.1	1276.8	1283.7	1265.8	1118.8
40°	2005.3	1999.8	1954.4	1865.1	1669.9	1481.6	1382.6	1428.0	1426.6	1400.5	1234.2
42.5°	2120.7	2123.5	2120.7	2078.1	1966.8	1751.0	1584.7	1587.4	1591.6	1564.1	1367.5
45°	2199.0	2199.0	2203.2	2237.5	2194.9	2072.6	1830.7	1768.9	1774.4	1731.7	1506.3
47.5°	2197.7	2205.9	2227.9	2307.6	2365.3	2372.2	2138.6	1980.5	1977.8	1913.2	1649.3
50°	2049.2	2043.7	2134.4	2313.1	2486.3	2619.6	2429.9	2204.5	2181.2	2101.5	1797.7
52.5°	1715.3	1733.1	1884.3	2146.8	2515.2	2787.3	2681.5	2449.2	2418.9	2288.4	1928.3
55°	1423.9	1443.1	1590.2	1847.2	2358.5	2846.4	2850.5	2708.9	2648.5	2450.6	2063.0
57.5°	1069.3	1106.4	1323.5	1565.4	2014.9	2699.3	2911.0	2957.7	2891.7	2607.2	2172.9
60°	683.1	705.1	948.3	1246.6	1632.8	2314.5	2898.6	3102.0	3066.3	2750.2	2265.0
62.5°	446.7	459.1	626.7	938.7	1243.8	1744.1	2751.6	3159.7	3159.7	2846.4	2333.7
64°	336.7	339.5	459.1	762.8	1037.7	1359.3	2578.4	3141.9	3174.9	2904.1	2347.5
65°	266.6	268.0	358.7	633.6	931.8	1114.6	2427.2	3103.4	3157.0	2926.1	2355.7
67.5°	186.9	191.0	232.3	365.6	668.0	643.2	1799.1	2922.0	2987.9	2933.0	2344.7
70°	162.2	167.7	195.2	239.1	476.9	373.8	956.6	2490.4	2568.8	2732.3	2182.6
72.5°	123.7	130.6	163.6	202.0	335.4	252.9	369.7	1768.9	1892.6	2112.5	1801.8
75°	89.3	92.1	120.9	164.9	235.0	195.2	159.4	912.6	1037.7	1246.6	1120.1
77.5°	56.4	60.5	82.5	123.7	210.3	148.4	94.8	332.6	419.2	542.9	489.3
80°	33.0	34.4	49.5	85.2	141.6	110.0	60.5	118.2	142.9	202.0	130.6
82.5°	19.2	20.6	31.6	57.7	92.1	85.2	38.5	60.5	67.3	77.0	27.5
85°	6.9	6.9	22.0	34.4	49.5	42.6	22.0	31.6	34.4	42.6	8.2
87.5°	1.4	1.4	11.0	17.9	17.9	6.9	11.0	13.7	16.5	23.4	2.7
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°	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5
2.5°	468.7	464.5	460.4	454.9	450.8	442.6	438.4	432.9	431.6	428.8	427.4
5°	479.7	472.8	463.2	449.4	441.2	428.8	420.6	412.3	410.9	408.2	406.8
7.5°	494.8	487.9	475.5	460.4	446.7	434.3	424.7	412.3	400.0	390.3	390.3
10°	519.5	511.3	494.8	481.0	464.5	438.4	393.1	351.8	325.7	309.2	303.7
12.5°	549.8	538.8	520.9	504.4	472.8	390.3	320.2	266.6	222.7	202.0	197.9
15°	581.4	571.8	553.9	529.1	434.3	325.7	233.6	151.2	108.6	89.3	92.1
17.5°	615.7	602.0	581.4	531.9	382.1	243.3	125.1	77.0	66.0	63.2	63.2
20°	651.5	633.6	613.0	501.7	314.7	140.2	71.5	57.7	53.6	49.5	50.9
22.5°	689.9	668.0	636.3	456.3	225.4	75.6	55.0	46.7	41.2	39.9	39.9
25°	731.2	699.6	659.7	404.1	130.6	57.7	45.4	37.1	33.0	31.6	30.2
27.5°	775.2	735.3	665.2	335.4	74.2	48.1	35.7	28.9	24.7	23.4	23.4
30°	815.0	771.0	652.8	248.8	56.4	39.9	28.9	22.0	19.2	19.2	19.2
32.5°	868.6	810.9	614.4	155.3	45.4	31.6	22.0	17.9	15.1	15.1	15.1
35°	938.7	870.0	575.9	82.5	37.1	26.1	17.9	13.7	12.4	12.4	12.4
37.5°	1034.9	948.3	541.5	52.2	30.2	20.6	13.7	11.0	9.6	9.6	9.6
40°	1133.9	1041.8	493.4	39.9	24.7	16.5	11.0	8.2	6.9	6.9	8.2
42.5°	1257.6	1150.4	438.4	34.4	20.6	13.7	8.2	5.5	4.1	5.5	5.5
45°	1382.6	1264.4	361.5	28.9	17.9	11.0	5.5	2.7	2.7	4.1	4.1
47.5°	1511.8	1385.4	280.4	24.7	15.1	8.2	4.1	1.4	1.4	2.7	2.7
50°	1645.2	1505.0	208.9	22.0	12.4	6.9	2.7	1.4	0.0	1.4	1.4
52.5°	1778.5	1620.4	162.2	19.2	11.0	5.5	1.4	0.0	0.0	0.0	1.4
55°	1902.2	1724.9	129.2	16.5	9.6	4.1	1.4	0.0	0.0	0.0	0.0
57.5°	2006.6	1801.8	103.1	15.1	8.2	2.7	1.4	0.0	0.0	0.0	0.0
60°	2105.6	1862.3	79.7	12.4	6.9	2.7	1.4	0.0	0.0	0.0	0.0
62.5°	2175.7	1885.7	64.6	11.0	5.5	2.7	0.0	0.0	0.0	0.0	0.0
64°	2205.9	1888.4	56.4	9.6	5.5	2.7	1.4	0.0	0.0	0.0	0.0
65°	2223.8	1880.2	52.2	9.6	5.5	2.7	1.4	0.0	0.0	0.0	0.0
67.5°	2227.9	1834.8	39.9	8.2	4.1	1.4	1.4	0.0	0.0	0.0	0.0
70°	2107.0	1676.8	28.9	5.5	2.7	1.4	0.0	0.0	0.0	0.0	0.0
72.5°	1760.6	1280.9	19.2	4.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0
75°	1099.5	553.9	11.0	4.1	1.4	1.4	0.0	0.0	0.0	0.0	0.0
77.5°	454.9	167.7	6.9	2.7	1.4	1.4	0.0	0.0	0.0	0.0	0.0
80°	104.5	39.9	2.7	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	24.7	6.9	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
85°	5.5	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	1.4	1.4	1.4	1.4	1.4	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)