

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: P594124

Luminaire Tested: **ISC-PA1C-727-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594124  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1C-727-U-T3  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5722 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

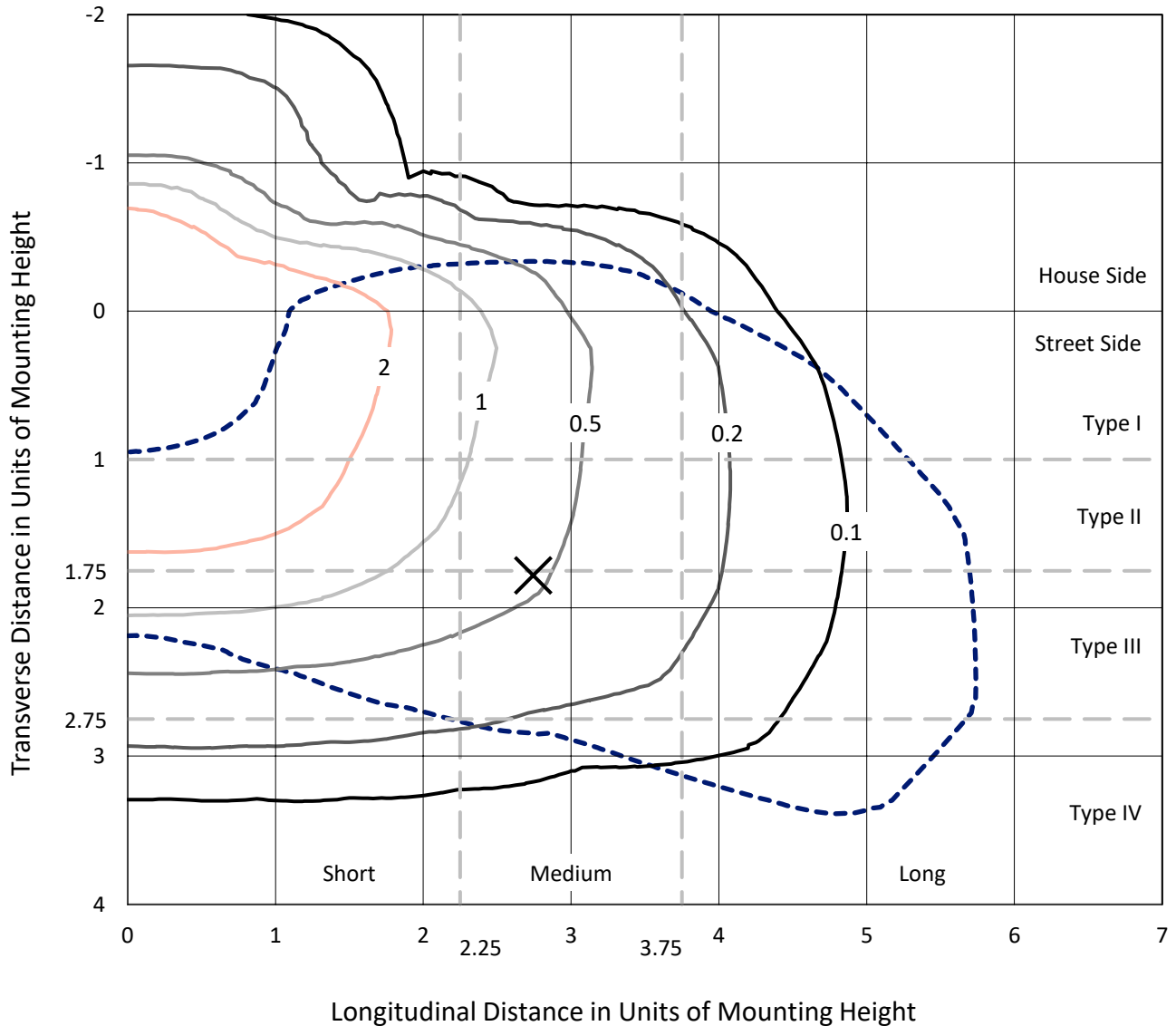
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

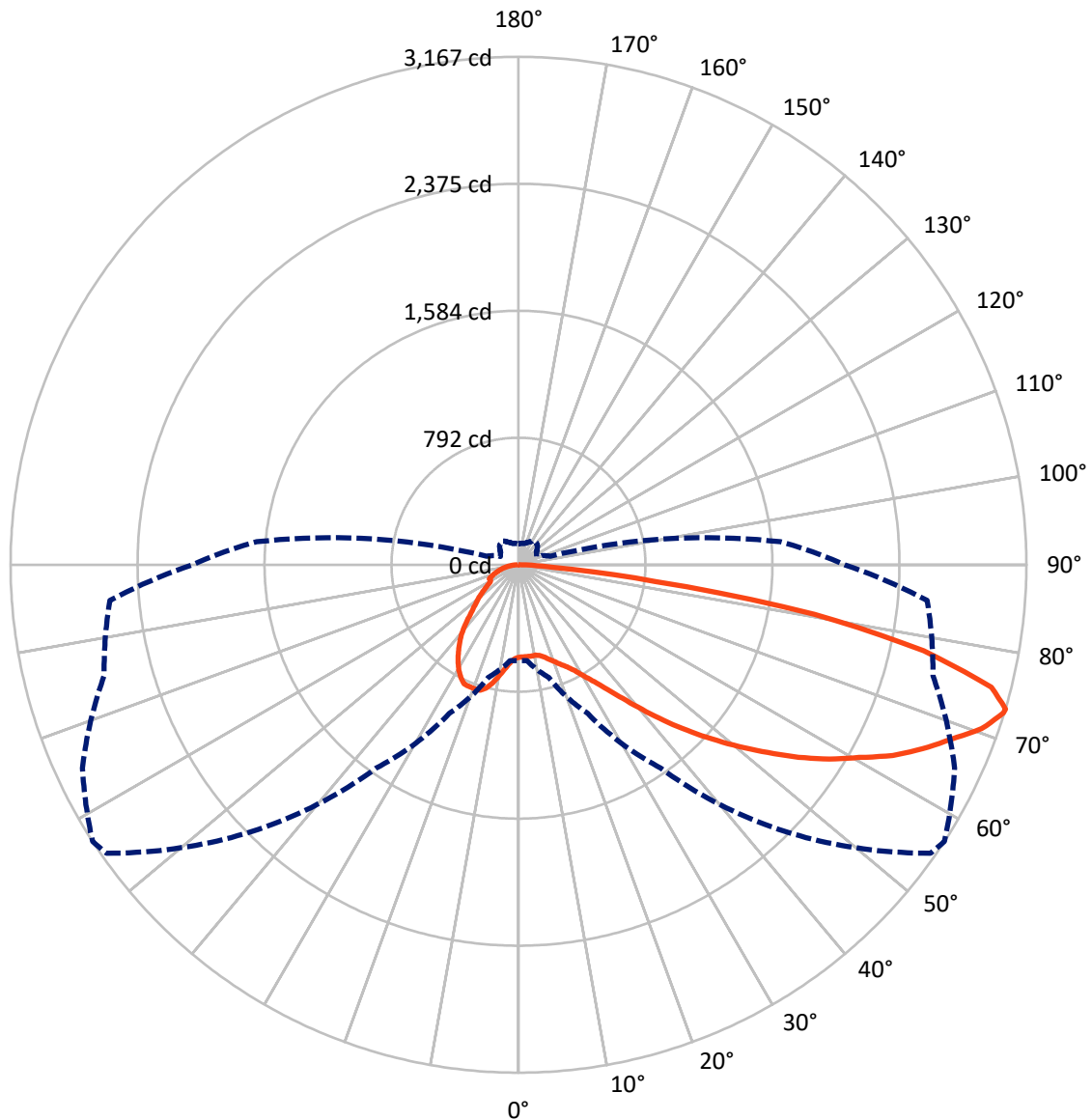
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1365.1	0.0	1365.1
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	4356.9	0.0	4356.9
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	5722.0	0.0	5722.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	1.0
10°-20°	189.3	3.3
20°-30°	349.5	6.1
30°-40°	539.6	9.4
40°-50°	812.2	14.2
50°-60°	1188.8	20.8
60°-70°	1403.9	24.5
70°-80°	1005.1	17.6
80°-90°	176.1	3.1
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°	5722.0	100.0
0°-180°	5722.0	100.0

**Coefficient of Utilization**

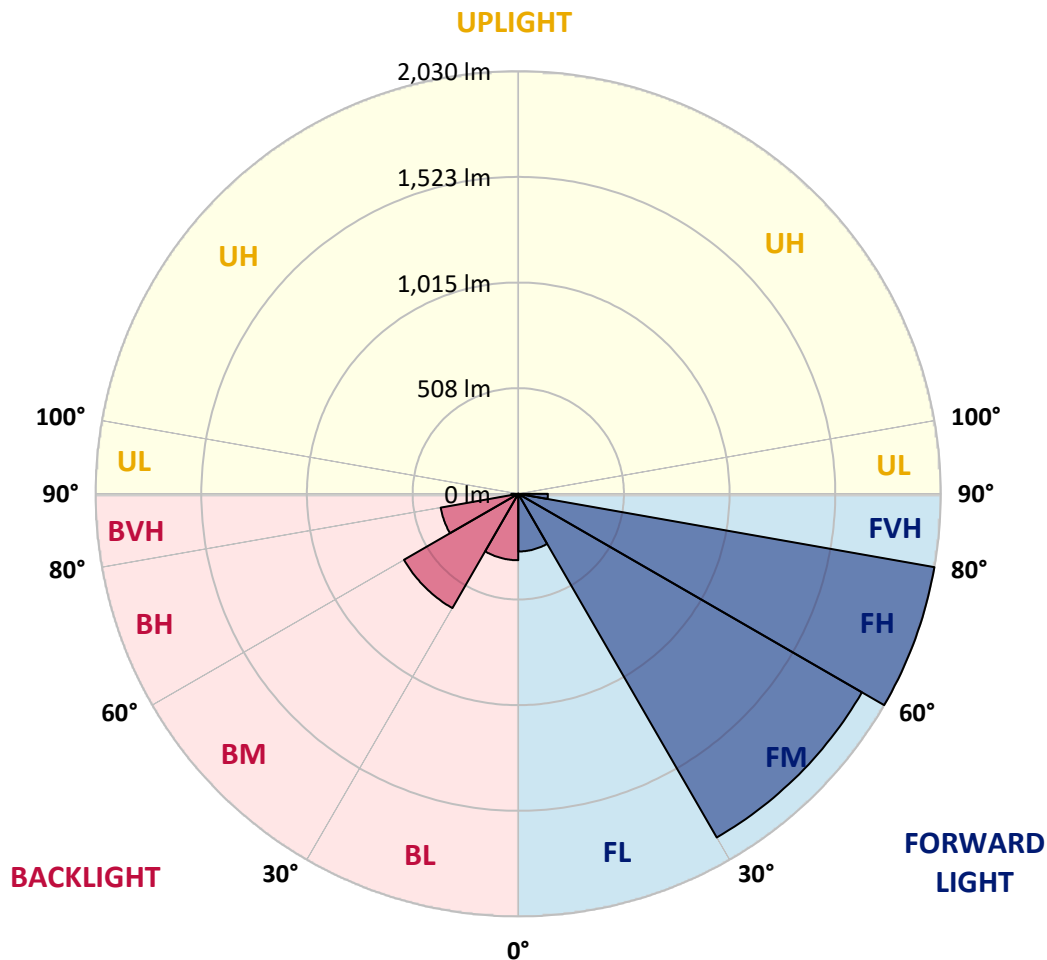


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	277.3	4.8			
FM (30°-60°)	1906.7	33.3			
FH (60°-80°)	2030.5	35.5			G2/5000
FVH (80°-90°)	142.5	2.5			G2/225
BL (0°-30°)	319.0	5.6	B1/500		
BM (30°-60°)	633.9	11.1	B1/1000		
BH (60°-80°)	378.5	6.6	B1/500		G1/500
BVH (80°-90°)	33.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	576.5	576.5	576.5	576.5	576.5	576.5	576.5	576.5	576.5	576.5	576.5
2.5°	569.5	572.3	570.9	572.3	576.5	573.7	573.7	575.1	576.5	575.1	577.9
5°	545.6	547.0	549.8	555.5	565.3	568.1	575.1	575.1	577.9	580.7	584.9
7.5°	506.4	509.2	514.8	520.4	537.2	554.1	572.3	575.1	584.9	591.9	594.7
10°	499.3	502.2	503.6	512.0	528.8	545.6	568.1	573.7	591.9	603.1	615.8
12.5°	492.3	495.1	499.3	510.6	531.6	549.8	573.7	579.3	601.7	624.2	639.6
15°	497.9	499.3	503.6	514.8	535.8	561.1	591.9	596.1	621.4	649.4	673.3
17.5°	512.0	513.4	512.0	521.8	541.4	570.9	613.0	620.0	650.8	678.9	702.7
20°	544.2	545.6	540.0	540.0	554.1	583.5	635.4	645.2	683.1	714.0	737.8
22.5°	614.4	611.6	597.5	579.3	579.3	603.1	660.7	674.7	722.4	747.6	768.7
25°	714.0	714.0	691.5	657.8	635.4	632.6	690.1	705.5	761.6	792.5	805.1
27.5°	834.6	836.0	799.5	754.6	711.1	690.1	732.2	747.6	810.7	843.0	847.2
30°	941.2	942.6	906.1	864.0	810.7	764.5	788.3	805.1	878.1	903.3	889.3
32.5°	1047.8	1049.2	1023.9	966.4	910.3	852.8	859.8	869.7	944.0	967.8	945.4
35°	1140.4	1144.6	1119.3	1075.8	1016.9	965.0	952.4	953.8	1021.1	1036.6	1007.1
37.5°	1234.3	1234.3	1218.9	1178.2	1127.7	1070.2	1053.4	1057.6	1117.9	1133.4	1091.3
40°	1353.6	1359.2	1350.8	1300.3	1242.8	1195.1	1178.2	1183.8	1249.8	1241.4	1196.5
42.5°	1498.0	1510.7	1496.6	1441.9	1380.2	1326.9	1326.9	1326.9	1383.0	1384.4	1317.1
45°	1683.2	1683.2	1669.2	1621.5	1540.1	1486.8	1468.6	1472.8	1521.9	1527.5	1448.9
47.5°	1837.5	1851.5	1836.1	1801.0	1736.5	1686.0	1628.5	1621.5	1662.2	1662.2	1594.8
50°	1962.3	1987.6	1974.9	1990.4	1944.1	1918.8	1801.0	1781.4	1795.4	1809.4	1735.1
52.5°	2066.1	2085.8	2081.5	2126.4	2148.9	2162.9	1976.4	1945.5	1956.7	1955.3	1888.0
55°	2073.1	2080.1	2143.3	2244.3	2332.6	2398.6	2153.1	2119.4	2108.2	2102.6	2050.7
57.5°	2032.5	2036.7	2162.9	2282.1	2474.3	2550.0	2320.0	2286.3	2270.9	2251.3	2230.2
60°	1934.3	1955.3	2120.8	2304.6	2558.5	2667.9	2475.7	2440.6	2429.4	2387.3	2435.0
62.5°	1809.4	1819.3	1984.8	2258.3	2569.7	2718.4	2639.8	2618.8	2583.7	2523.4	2617.4
65°	1632.7	1631.3	1777.2	2122.2	2512.2	2743.6	2778.7	2767.5	2724.0	2620.2	2780.1
67.5°	1340.9	1373.2	1516.3	1881.0	2373.3	2768.9	2920.3	2906.3	2837.6	2707.1	2857.2
70°	1022.5	1042.2	1204.9	1519.1	2097.0	2700.1	3059.2	3063.4	2938.6	2725.4	2823.6
72.5°	652.2	685.9	814.9	1106.7	1679.0	2444.8	3142.0	3161.6	2994.7	2700.1	2614.6
73°	597.5	600.3	726.6	1023.9	1548.5	2353.7	3136.4	3167.2	3000.3	2674.9	2557.1
75°	356.3	371.7	447.4	680.3	1105.3	1890.8	2984.9	3046.6	2970.8	2562.7	2241.5
77.5°	166.9	178.1	220.2	359.1	601.7	1137.6	2509.4	2582.3	2632.8	2242.9	1708.4
80°	88.4	89.8	108.0	180.9	322.6	468.5	1749.1	1869.7	1941.3	1688.8	1148.8
82.5°	74.3	74.3	84.2	116.4	206.2	182.3	721.0	858.4	1052.0	831.8	451.7
85°	60.3	61.7	84.2	87.0	147.3	94.0	172.5	216.0	408.2	367.5	50.5
87.5°	19.6	22.4	47.7	61.7	78.5	36.5	43.5	47.7	47.7	70.1	16.8
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°	576.5	576.5	576.5	576.5	576.5	576.5	576.5	576.5	576.5	576.5	576.5
2.5°	579.3	579.3	580.7	582.1	584.9	584.9	587.7	589.1	591.9	593.3	589.1
5°	584.9	587.7	590.5	598.9	608.8	617.2	625.6	632.6	639.6	643.8	642.4
7.5°	600.3	604.5	615.8	631.2	650.8	663.5	676.1	688.7	694.3	697.1	697.1
10°	621.4	629.8	650.8	676.1	698.5	718.2	728.0	736.4	739.2	742.0	739.2
12.5°	650.8	662.1	694.3	726.6	751.8	761.6	760.2	749.0	733.6	730.8	728.0
15°	688.7	702.7	739.2	777.1	796.7	784.1	751.8	740.6	737.8	746.2	743.4
17.5°	721.0	737.8	782.7	822.0	817.8	774.3	764.5	770.1	767.3	768.7	768.7
20°	751.8	775.7	823.4	850.0	813.5	785.5	777.1	770.1	761.6	764.5	761.6
22.5°	791.1	807.9	862.6	864.0	807.9	785.5	767.3	753.2	750.4	751.8	753.2
25°	822.0	848.6	896.3	854.2	807.9	763.0	737.8	735.0	736.4	744.8	742.0
27.5°	864.0	890.7	923.0	848.6	774.3	726.6	716.8	715.4	705.5	708.3	708.3
30°	903.3	935.6	937.0	848.6	732.2	695.7	681.7	656.4	635.4	639.6	638.2
32.5°	956.6	984.7	939.8	814.9	684.5	655.0	617.2	577.9	568.1	573.7	575.1
35°	1018.3	1040.8	942.6	758.8	636.8	597.5	528.8	506.4	505.0	509.2	513.4
37.5°	1099.7	1112.3	963.6	694.3	590.5	507.8	454.5	448.9	436.2	427.8	429.2
40°	1199.3	1183.8	1004.3	636.8	535.8	426.4	404.0	388.5	364.7	340.8	345.1
42.5°	1310.1	1266.6	1016.9	590.5	461.5	375.9	354.9	331.0	301.6	276.3	274.9
45°	1429.3	1359.2	1005.7	554.1	387.1	338.0	315.6	287.5	252.5	231.4	231.4
47.5°	1571.0	1447.5	970.6	524.6	335.2	304.4	276.3	248.3	224.4	204.8	204.8
50°	1726.7	1549.9	945.4	472.7	298.8	272.1	244.1	221.6	203.4	188.0	188.0
52.5°	1890.8	1646.7	924.4	397.0	266.5	242.7	223.0	204.8	189.4	169.7	166.9
55°	2057.7	1739.3	934.2	324.0	237.0	221.6	209.0	190.8	185.2	180.9	178.1
57.5°	2231.6	1840.3	958.0	265.1	211.8	210.4	204.8	217.4	230.0	221.6	217.4
60°	2367.7	1918.8	960.8	223.0	196.4	221.6	249.7	253.9	220.2	200.6	199.2
62.5°	2475.7	1993.2	894.9	193.6	200.6	260.9	266.5	224.4	190.8	182.3	182.3
65°	2531.8	2019.8	719.6	176.7	209.0	249.7	241.3	202.0	178.1	176.7	176.7
67.5°	2503.8	1998.8	503.6	158.5	185.2	216.0	216.0	185.2	164.1	171.1	168.3
70°	2369.1	1895.0	332.4	143.1	162.7	195.0	200.6	172.5	152.9	157.1	152.9
72.5°	2088.6	1709.8	218.8	126.2	140.3	172.5	186.6	158.5	140.3	138.9	134.7
73°	2033.9	1639.7	206.2	123.4	136.1	166.9	182.3	155.7	137.5	133.3	130.4
75°	1725.3	1367.6	155.7	110.8	120.6	150.1	169.7	145.9	126.2	120.6	117.8
77.5°	1256.8	948.2	116.4	94.0	101.0	130.4	150.1	133.3	112.2	105.2	103.8
80°	784.1	516.2	87.0	75.7	80.0	109.4	131.9	119.2	96.8	88.4	87.0
82.5°	307.2	168.3	60.3	56.1	58.9	82.8	110.8	103.8	81.4	74.3	70.1
85°	50.5	57.5	39.3	37.9	37.9	58.9	84.2	80.0	54.7	47.7	42.1
87.5°	14.0	26.7	15.4	14.0	14.0	25.2	46.3	36.5	22.4	18.2	16.8
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)