

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: P650698

Luminaire Tested: **GALN-SA1C-840-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-840-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3528.8 lumens  
Efficiency: N/A  
Efficacy: 61.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

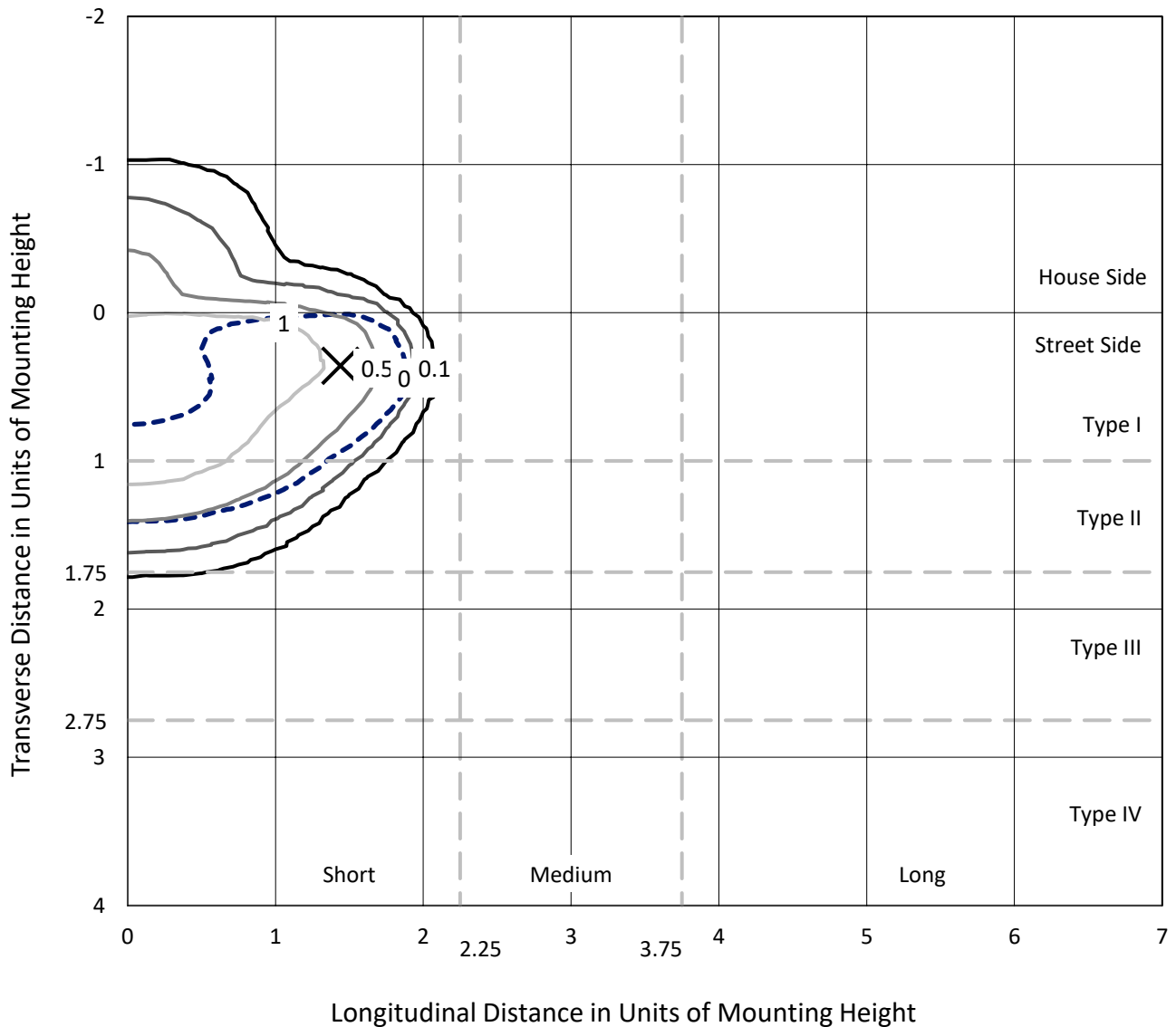
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

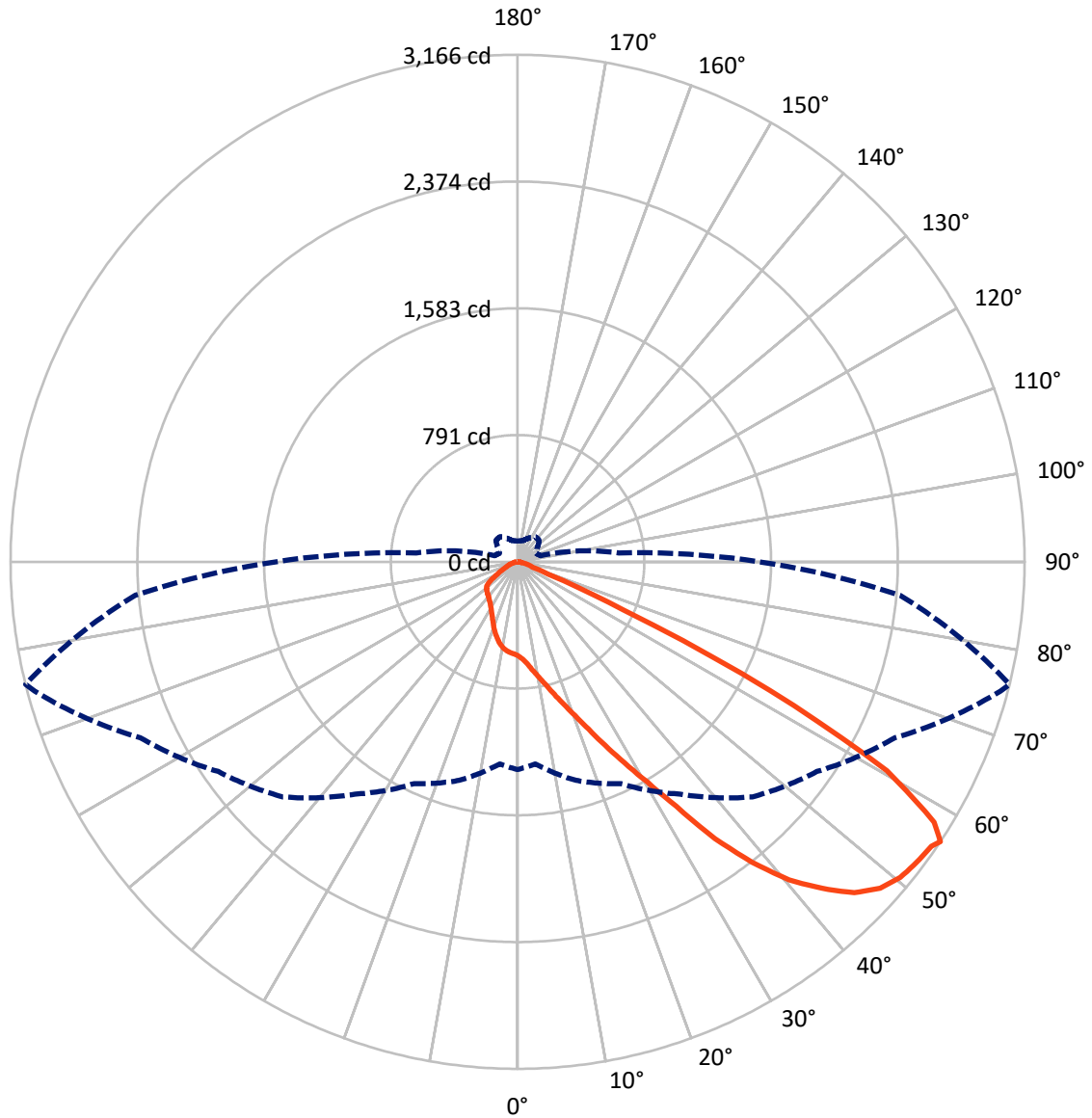
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	554.4	0.0	554.4
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	2974.5	0.0	2974.5
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	3528.8	0.0	3528.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.2	1.7
10°-20°	190.1	5.4
20°-30°	344.7	9.8
30°-40°	594.4	16.8
40°-50°	965.7	27.4
50°-60°	1017.9	28.8
60°-70°	311.0	8.8
70°-80°	39.9	1.1
80°-90°	6.1	0.2
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°	3528.8	100.0
0°-180°	3528.8	100.0

**Coefficient of Utilization**

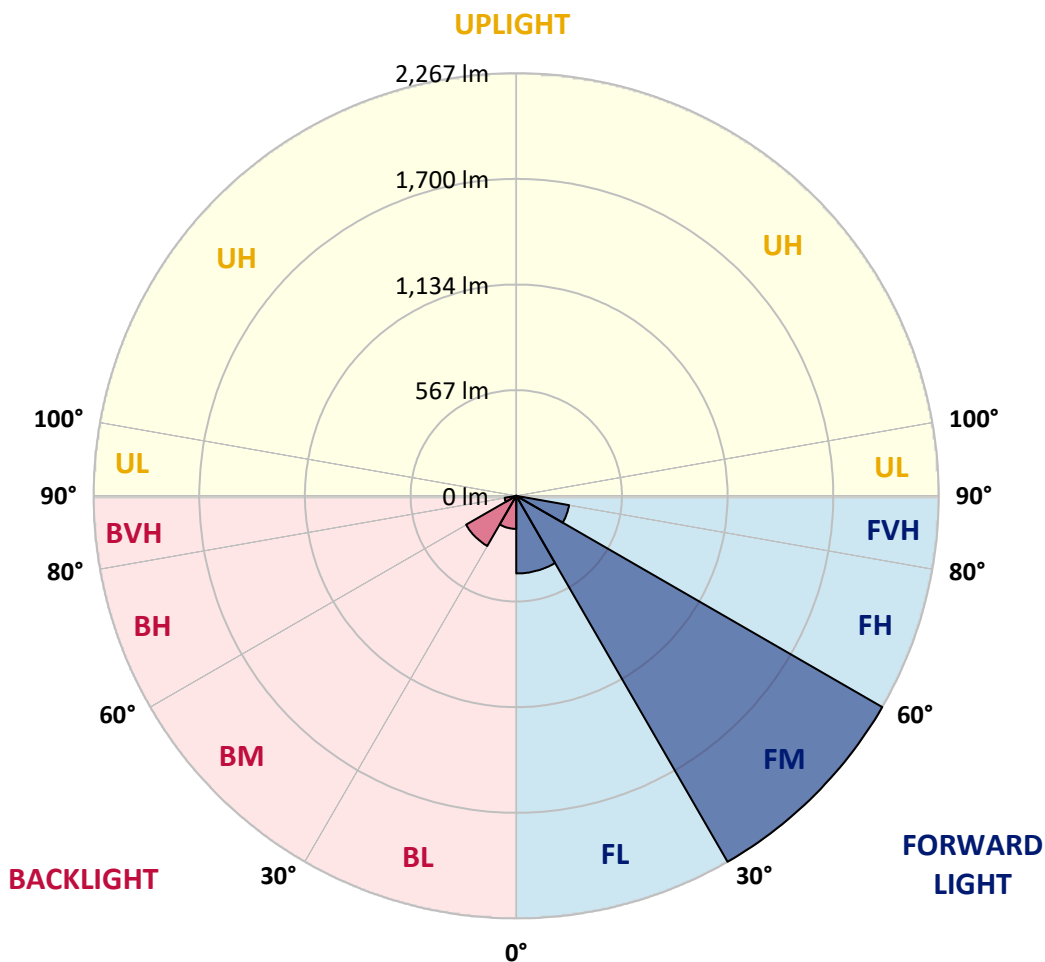


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.6	11.8			
FM (30°-60°)	2267.3	64.2			
FH (60°-80°)	287.6	8.2			G0/660
FVH (80°-90°)	3.0	0.1			G0/10
BL (0°-30°)	177.3	5.0	B1/500		
BM (30°-60°)	310.7	8.8	B1/1000		
BH (60°-80°)	63.2	1.8	B0/110		G0/110
BVH (80°-90°)	3.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	676.5	660.9	661.5	660.3	658.3	651.1	629.7	626.4	612.1	608.2	595.2
5°	757.8	744.1	751.9	740.2	729.1	722.7	687.5	671.3	648.5	640.1	621.8
7.5°	808.5	802.1	799.5	800.1	789.7	773.4	757.8	722.0	691.5	684.9	646.6
10°	833.3	829.4	833.3	831.3	835.9	837.8	810.5	789.0	744.1	733.1	673.2
12.5°	839.1	846.9	850.2	858.7	869.7	888.5	886.6	857.3	797.5	790.3	714.3
15°	853.4	859.9	856.6	870.4	891.1	923.0	939.9	935.4	871.0	858.0	761.7
17.5°	866.4	854.7	865.8	893.1	913.9	962.7	1003.6	1022.6	951.0	936.0	805.3
20°	884.0	880.8	878.8	892.5	929.6	994.6	1075.9	1110.4	1040.7	1025.2	867.7
22.5°	937.3	938.0	936.7	916.5	943.2	1016.7	1139.0	1224.2	1148.0	1135.1	938.6
25°	1007.6	999.1	992.6	976.4	973.1	1036.9	1202.7	1363.4	1276.9	1267.8	1015.4
27.5°	1081.8	1081.8	1062.3	1047.3	1026.4	1086.9	1261.2	1498.7	1432.3	1420.0	1082.4
30°	1162.4	1167.0	1164.4	1132.5	1119.5	1141.6	1321.1	1671.7	1610.6	1595.0	1193.0
32.5°	1281.4	1271.7	1282.8	1256.0	1217.7	1237.2	1415.4	1826.6	1842.1	1820.0	1338.0
35°	1438.9	1433.0	1425.8	1382.3	1336.8	1352.3	1548.8	2017.1	2132.9	2121.8	1484.4
37.5°	1580.0	1576.8	1570.9	1541.0	1488.3	1507.2	1700.3	2215.5	2416.5	2380.1	1691.3
40°	1728.3	1745.9	1727.0	1700.3	1652.2	1693.9	1878.5	2333.3	2655.2	2611.1	1849.3
42.5°	1929.3	1915.6	1924.1	1875.3	1849.3	1894.9	2057.4	2451.0	2840.6	2787.9	2017.1
45°	2143.3	2144.0	2121.2	2105.6	2037.9	2087.4	2167.4	2516.0	2988.3	2947.3	2144.0
47.5°	2280.5	2280.0	2304.7	2329.3	2259.8	2211.0	2242.2	2577.8	3064.4	3045.5	2190.1
50°	2259.1	2265.6	2297.4	2389.9	2426.3	2360.6	2312.4	2559.6	3098.8	3096.9	2229.8
52.5°	1965.1	1986.5	2039.9	2173.2	2356.7	2438.0	2385.9	2593.5	3115.8	3119.0	2289.0
55°	1496.1	1507.8	1609.3	1771.2	1974.2	2252.6	2356.7	2620.1	3128.8	3134.7	2360.6
56°	1297.7	1266.5	1412.8	1527.9	1770.6	2075.0	2282.6	2599.3	3121.0	3165.9	2396.3
57.5°	979.6	958.8	1077.2	1221.0	1454.4	1775.8	2052.3	2501.0	3068.3	3067.6	2345.0
60°	595.8	575.0	666.1	750.7	881.4	1093.5	1386.8	1991.7	2594.1	2648.7	1898.7
62.5°	354.5	367.5	457.3	508.6	550.9	573.1	717.5	1183.9	1730.9	1770.0	1178.0
65°	236.2	240.7	308.3	392.9	411.8	327.8	292.1	479.4	750.7	726.6	485.9
67.5°	145.7	156.1	206.9	295.3	327.1	239.3	138.5	178.9	206.9	206.9	140.5
70°	88.5	93.7	137.9	201.0	224.4	154.2	100.8	100.8	99.5	97.6	83.9
72.5°	42.3	45.5	70.2	103.4	105.4	81.3	78.0	85.2	83.3	82.6	69.6
75°	18.2	19.5	24.7	32.5	37.1	34.5	47.5	61.1	63.1	61.1	50.1
77.5°	5.9	6.5	9.1	11.7	12.4	15.0	20.2	25.4	29.3	27.3	24.7
80°	0.7	1.3	2.6	5.9	9.1	11.7	15.0	16.9	18.8	18.8	17.6
82.5°	0.7	0.7	2.6	5.2	8.5	11.0	14.3	16.2	18.8	19.5	18.2
85°	0.0	0.7	1.9	4.5	7.1	7.1	6.5	6.5	4.5	4.5	4.5
87.5°	0.0	0.0	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3
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°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	592.6	591.3	573.7	562.6	556.8	545.1	537.9	532.8	528.8	524.3	525.0
5°	600.4	595.8	566.6	546.4	522.3	509.3	498.3	489.1	483.3	482.0	479.4
7.5°	622.5	598.5	554.2	517.8	487.2	474.2	464.4	458.6	461.2	455.3	459.9
10°	639.4	603.7	539.2	486.5	456.0	446.2	441.0	445.6	452.1	449.5	446.2
12.5°	660.3	608.9	515.2	456.7	428.0	420.8	430.0	438.4	451.4	456.7	450.1
15°	683.6	614.7	484.6	422.2	403.9	409.8	425.4	440.3	453.4	459.9	463.8
17.5°	712.2	612.8	454.6	394.8	381.1	398.1	417.0	430.6	450.1	459.9	457.3
20°	738.9	606.3	421.5	367.5	368.2	383.7	399.4	421.5	431.9	444.9	440.3
22.5°	764.3	594.5	387.0	348.7	348.7	372.7	380.6	394.8	403.9	410.5	409.8
25°	800.1	572.4	358.4	330.4	338.3	353.9	360.4	364.9	361.0	366.3	366.8
27.5°	825.4	549.7	335.0	314.2	328.5	340.2	338.3	335.6	326.6	319.4	324.0
30°	852.8	523.0	314.9	303.1	310.9	321.3	313.5	305.7	291.4	279.7	280.4
32.5°	891.8	510.7	297.3	290.1	300.5	301.8	293.3	281.7	267.4	256.3	255.7
35°	964.6	502.8	282.3	281.7	283.6	284.3	275.8	261.5	255.7	246.5	249.8
37.5°	1037.5	498.9	271.9	269.3	268.6	269.3	259.5	245.9	256.9	256.3	257.6
40°	1130.6	516.5	256.9	253.6	254.3	254.3	242.0	238.1	257.6	259.5	260.2
42.5°	1224.8	538.6	247.2	236.7	239.3	239.3	232.9	228.3	242.0	229.0	227.0
45°	1306.8	571.1	236.7	219.8	226.4	229.6	227.7	219.8	211.4	189.3	189.3
47.5°	1333.5	599.7	224.4	203.6	208.8	223.1	217.2	201.0	186.0	167.9	166.5
50°	1380.3	631.0	214.6	184.8	195.8	213.4	207.5	191.2	174.3	161.3	162.0
52.5°	1428.4	666.7	196.5	162.6	176.3	205.5	205.5	187.4	161.3	152.2	150.9
55°	1500.7	665.4	163.9	133.4	157.4	193.9	197.1	167.9	144.4	137.3	137.3
56°	1511.0	635.5	147.7	124.9	148.9	190.6	191.2	162.6	137.9	130.1	130.1
57.5°	1433.0	573.7	129.4	114.5	138.5	184.8	185.4	158.0	132.7	121.6	120.3
60°	1102.6	388.4	108.0	102.1	125.6	166.5	169.8	143.7	116.4	108.0	107.3
62.5°	622.5	215.3	94.9	92.3	108.0	141.8	151.5	125.6	98.9	94.4	95.6
65°	284.3	118.4	80.0	74.8	87.1	109.2	122.3	103.4	81.3	76.1	76.1
67.5°	104.1	80.7	68.3	59.2	61.1	70.9	79.4	67.0	54.0	46.2	48.1
70°	74.2	67.6	59.9	51.4	47.5	46.2	45.5	37.8	26.7	20.9	22.1
72.5°	59.9	55.9	50.1	43.6	37.1	31.2	26.7	19.5	12.4	8.5	7.8
75°	42.9	41.0	36.4	31.2	26.0	22.1	18.2	12.4	6.5	3.3	3.3
77.5°	22.1	22.1	21.4	19.5	16.2	13.0	10.4	7.1	3.9	1.3	1.3
80°	16.9	18.2	18.8	16.9	15.0	11.7	8.5	5.2	2.6	0.7	0.7
82.5°	16.2	18.8	20.2	17.6	15.0	11.0	8.5	5.2	2.6	0.7	0.7
85°	3.9	3.9	5.9	6.5	8.5	9.1	7.1	4.5	1.9	0.7	0.7
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	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)