

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: P527511

Luminaire Tested: **GALN-SA2C-735-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527511  
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-SA2C-735-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7769 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

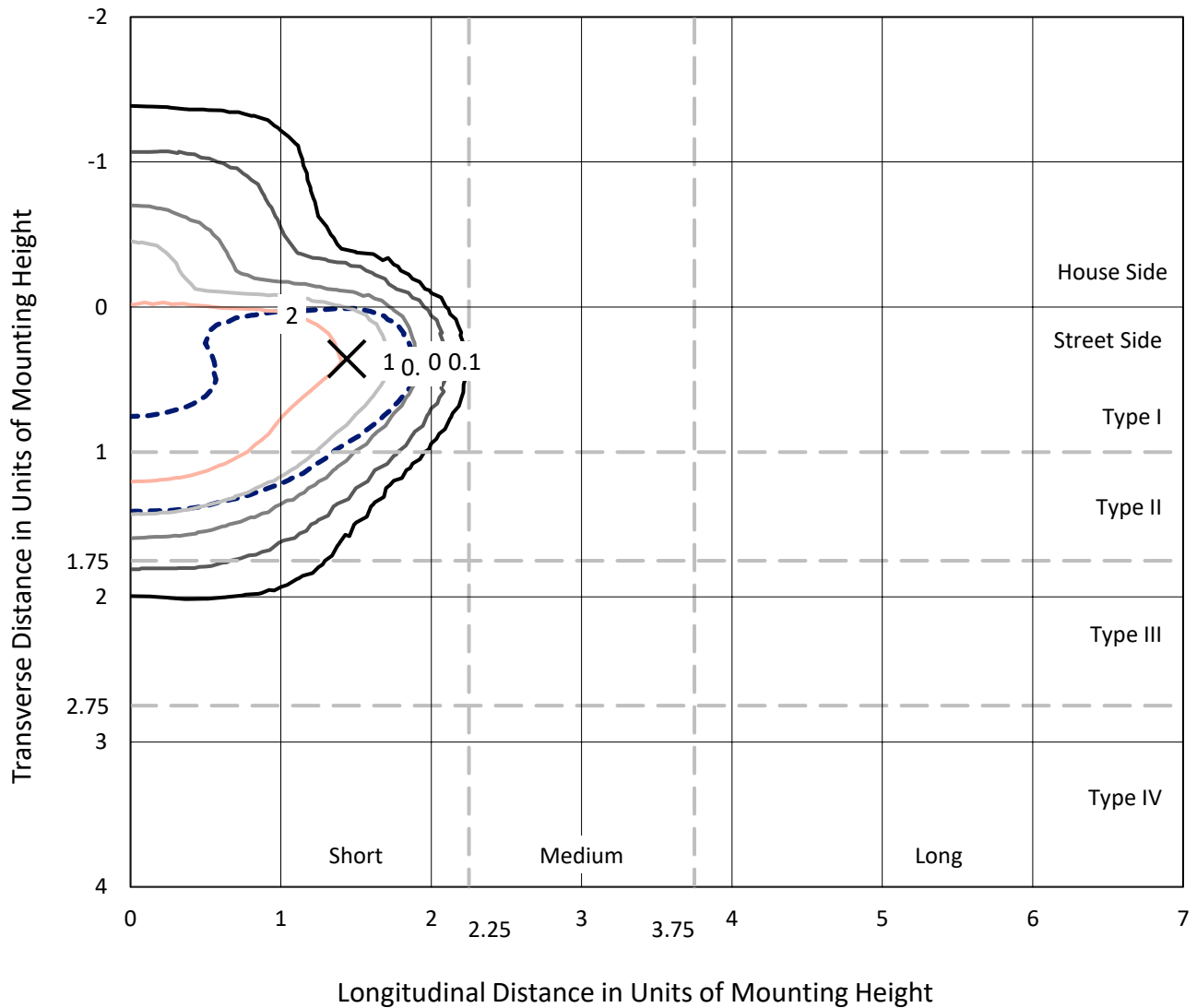
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

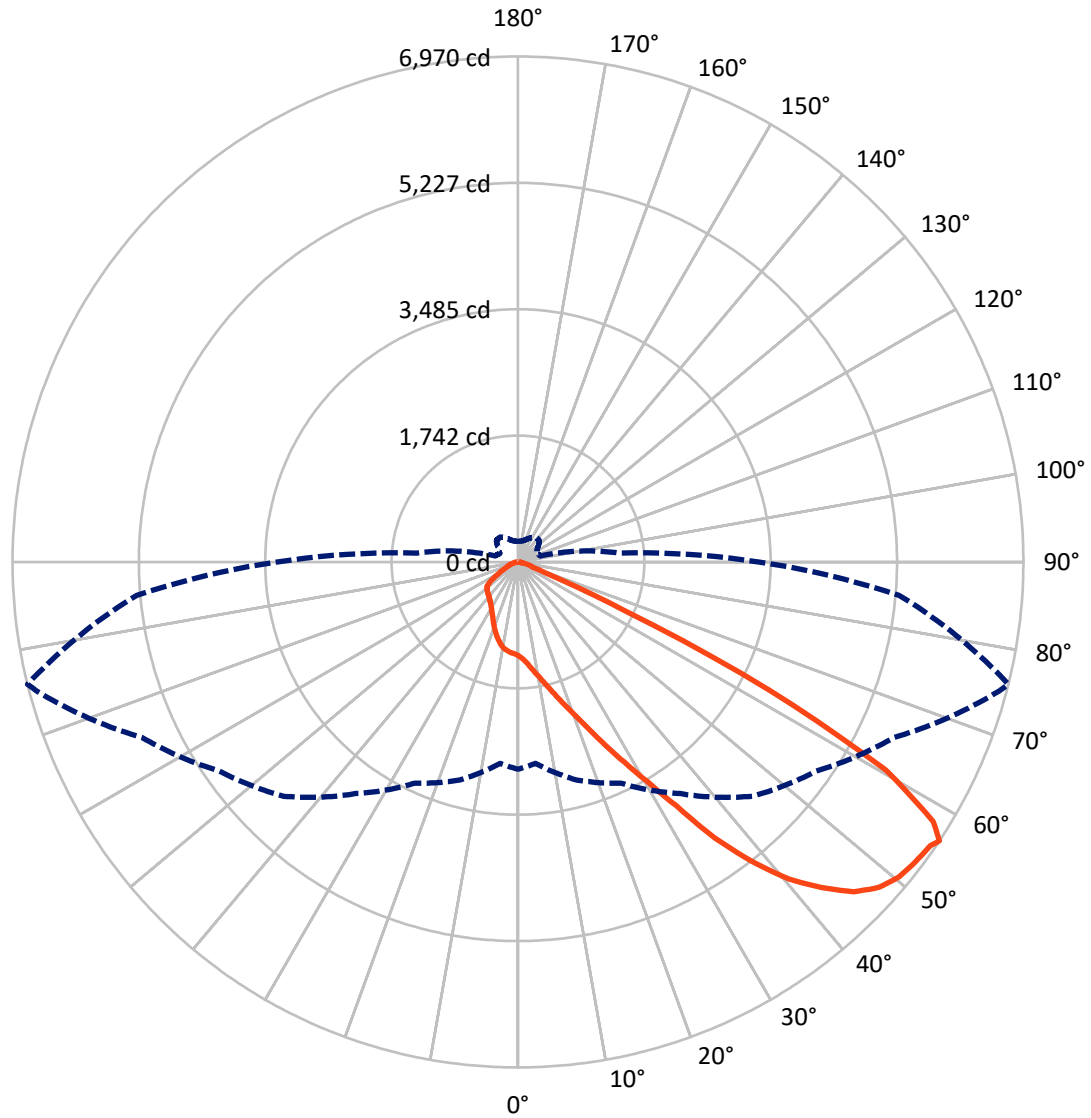
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	1220.5	0.0	1220.5
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	6548.5	0.0	6548.5
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	7769.0	0.0	7769.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.3	1.7
10°-20°	418.5	5.4
20°-30°	758.9	9.8
30°-40°	1308.7	16.8
40°-50°	2126.0	27.4
50°-60°	2240.9	28.8
60°-70°	684.7	8.8
70°-80°	87.8	1.1
80°-90°	13.3	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°	7769.0	100.0
0°-180°	7769.0	100.0

**Coefficient of Utilization**

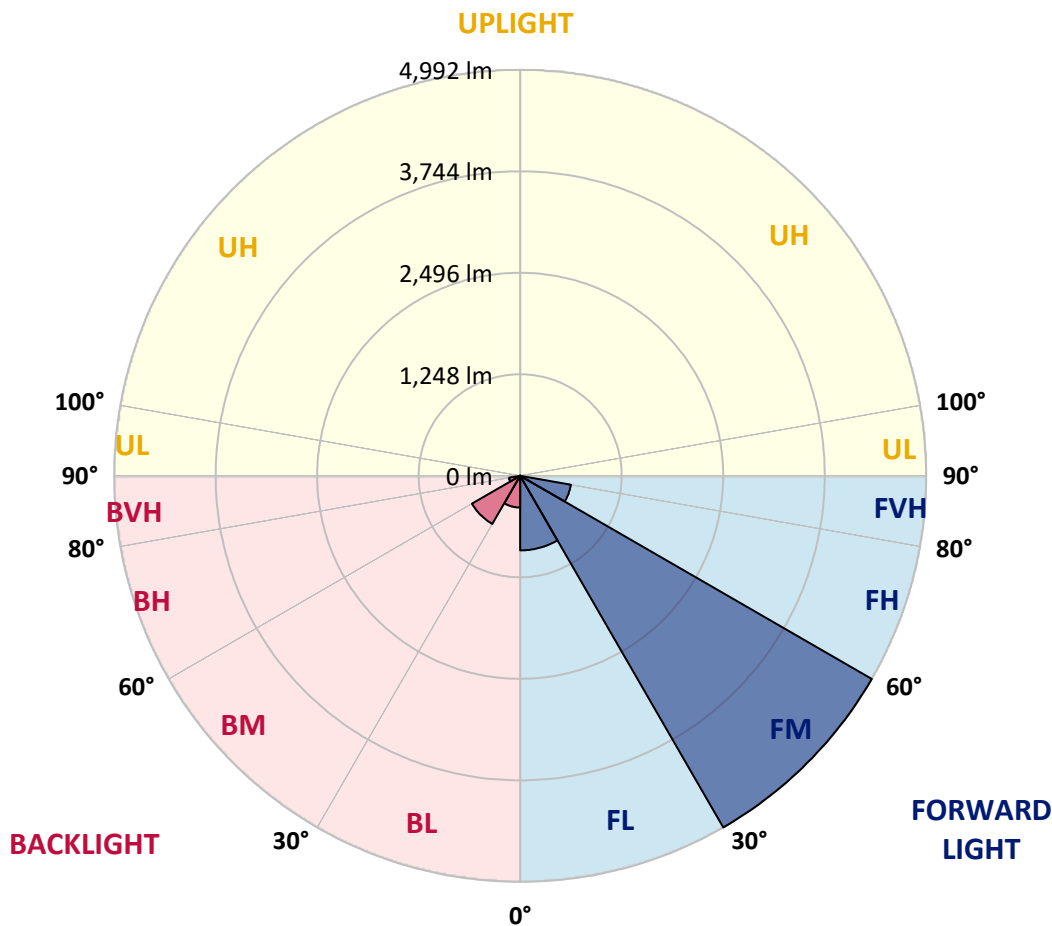


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.2	11.8			
FM (30°-60°)	4991.6	64.2			
FH (60°-80°)	633.2	8.2			G0/660
FVH (80°-90°)	6.5	0.1			G0/10
BL (0°-30°)	390.4	5.0	B1/500		
BM (30°-60°)	684.0	8.8	B1/1000		
BH (60°-80°)	139.2	1.8	B1/500		G1/500
BVH (80°-90°)	6.8	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2
2.5°	1489.4	1455.0	1456.4	1453.6	1449.3	1433.5	1386.2	1379.1	1347.6	1339.0	1310.3
5°	1668.4	1638.3	1655.5	1629.7	1605.4	1591.0	1513.7	1477.9	1427.8	1409.2	1369.1
7.5°	1780.1	1765.7	1760.0	1761.4	1738.5	1702.7	1668.4	1589.6	1522.3	1508.0	1423.5
10°	1834.5	1825.9	1834.5	1830.2	1840.2	1844.5	1784.4	1737.1	1638.3	1613.9	1482.2
12.5°	1847.4	1864.6	1871.7	1890.3	1914.7	1956.2	1951.9	1887.5	1755.7	1740.0	1572.4
15°	1878.9	1893.2	1886.0	1916.1	1961.9	2032.1	2069.3	2059.3	1917.5	1888.9	1677.0
17.5°	1907.5	1881.7	1906.1	1966.2	2012.1	2119.5	2209.7	2251.2	2093.7	2060.8	1772.9
20°	1946.2	1939.0	1934.7	1964.8	2046.4	2189.6	2368.6	2444.5	2291.3	2256.9	1910.4
22.5°	2063.6	2065.0	2062.2	2017.8	2076.5	2238.3	2507.6	2695.2	2527.6	2499.0	2066.5
25°	2218.3	2199.7	2185.3	2149.5	2142.4	2282.7	2647.9	3001.6	2811.2	2791.1	2235.5
27.5°	2381.5	2381.5	2338.6	2305.6	2259.8	2393.0	2776.8	3299.5	3153.4	3126.2	2383.0
30°	2559.1	2569.1	2563.4	2493.2	2464.6	2513.3	2908.5	3680.4	3545.8	3511.4	2626.4
32.5°	2821.2	2799.7	2824.0	2765.3	2680.8	2723.8	3116.2	4021.3	4055.6	4006.9	2945.8
35°	3167.7	3154.9	3139.1	3043.2	2942.9	2977.3	3409.8	4440.9	4695.8	4671.4	3268.0
37.5°	3478.5	3471.3	3458.5	3392.6	3276.6	3318.1	3743.4	4877.6	5320.2	5240.0	3723.4
40°	3805.0	3843.7	3802.2	3743.4	3637.5	3729.1	4135.8	5136.8	5845.7	5748.3	4071.4
42.5°	4247.5	4217.5	4236.1	4128.7	4071.4	4171.6	4529.6	5396.1	6253.9	6137.9	4440.9
45°	4718.7	4720.1	4670.0	4635.6	4486.7	4595.5	4771.7	5539.3	6578.9	6488.7	4720.1
47.5°	5020.8	5019.4	5073.8	5128.3	4975.0	4867.6	4936.4	5675.3	6746.5	6705.0	4821.8
50°	4973.6	4987.9	5058.1	5261.4	5341.6	5197.0	5091.0	5635.2	6822.4	6818.1	4909.1
52.5°	4326.3	4373.6	4491.0	4784.6	5188.4	5367.4	5252.8	5709.7	6859.6	6866.8	5039.5
55°	3293.8	3319.5	3542.9	3899.5	4346.3	4959.3	5188.4	5768.4	6888.3	6901.2	5197.0
56°	2857.0	2788.2	3110.5	3363.9	3898.1	4568.3	5025.1	5722.6	6871.1	6969.9	5275.8
57.5°	2156.7	2110.9	2371.5	2688.0	3202.1	3909.6	4518.2	5506.3	6755.1	6753.7	5162.6
60°	1311.8	1266.0	1466.4	1652.6	1940.5	2407.3	3053.2	4385.0	5711.1	5831.4	4180.2
62.5°	780.5	809.1	1006.7	1119.9	1213.0	1261.7	1579.6	2606.4	3810.7	3896.7	2593.5
65°	519.8	529.9	678.8	865.0	906.5	721.8	643.0	1055.4	1652.6	1599.6	1069.8
67.5°	320.8	343.7	455.4	650.2	720.3	527.0	305.0	393.8	455.4	455.4	309.3
70°	194.8	206.2	303.6	442.5	494.1	339.4	222.0	222.0	219.1	214.8	184.7
72.5°	93.1	100.2	154.7	227.7	232.0	179.0	171.8	187.6	183.3	181.9	153.2
75°	40.1	43.0	54.4	71.6	81.6	75.9	104.5	134.6	138.9	134.6	110.3
77.5°	12.9	14.3	20.0	25.8	27.2	32.9	44.4	55.9	64.4	60.1	54.4
80°	1.4	2.9	5.7	12.9	20.0	25.8	32.9	37.2	41.5	41.5	38.7
82.5°	1.4	1.4	5.7	11.5	18.6	24.3	31.5	35.8	41.5	43.0	40.1
85°	0.0	1.4	4.3	10.0	15.8	15.8	14.3	14.3	10.0	10.0	10.0
87.5°	0.0	0.0	1.4	1.4	1.4	2.9	2.9	2.9	2.9	2.9	2.9
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°	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2
2.5°	1304.6	1301.8	1263.1	1238.7	1225.9	1200.1	1184.3	1172.9	1164.3	1154.3	1155.7
5°	1321.8	1311.8	1247.3	1202.9	1150.0	1121.3	1097.0	1076.9	1064.0	1061.2	1055.4
7.5°	1370.5	1317.5	1220.1	1139.9	1072.6	1044.0	1022.5	1009.6	1015.3	1002.5	1012.5
10°	1407.7	1329.0	1187.2	1071.2	1003.9	982.4	970.9	981.0	995.3	989.6	982.4
12.5°	1453.6	1340.4	1134.2	1005.3	942.3	926.6	946.6	965.2	993.9	1005.3	991.0
15°	1505.1	1353.3	1066.9	929.4	889.3	902.2	936.6	969.5	998.2	1012.5	1021.1
17.5°	1568.1	1349.0	1001.0	869.3	839.2	876.4	918.0	948.0	991.0	1012.5	1006.7
20°	1626.8	1334.7	928.0	809.1	810.6	844.9	879.3	928.0	950.9	979.5	969.5
22.5°	1682.7	1308.9	852.1	767.6	767.6	820.6	837.8	869.3	889.3	903.6	902.2
25°	1761.4	1260.2	789.1	727.5	744.7	779.0	793.4	803.4	794.8	806.3	807.7
27.5°	1817.3	1210.1	737.5	691.7	723.2	749.0	744.7	738.9	718.9	703.1	713.2
30°	1877.4	1151.4	693.1	667.3	684.5	707.4	690.3	673.1	641.6	615.8	617.2
32.5°	1963.4	1124.2	654.5	638.7	661.6	664.5	645.9	620.1	588.6	564.2	562.8
35°	2123.8	1107.0	621.5	620.1	624.4	625.8	607.2	575.7	562.8	542.8	549.9
37.5°	2284.2	1098.4	598.6	592.9	591.4	592.9	571.4	541.3	565.7	564.2	567.1
40°	2488.9	1137.1	565.7	558.5	559.9	559.9	532.7	524.1	567.1	571.4	572.8
42.5°	2696.6	1185.8	544.2	521.3	527.0	527.0	512.7	502.7	532.7	504.1	499.8
45°	2877.0	1257.4	521.3	484.0	498.4	505.5	501.2	484.0	465.4	416.7	416.7
47.5°	2935.7	1320.4	494.1	448.2	459.7	491.2	478.3	442.5	409.6	369.5	366.6
50°	3038.9	1389.1	472.6	406.7	431.1	469.7	456.8	421.0	383.8	355.2	356.6
52.5°	3144.8	1467.9	432.5	358.0	388.1	452.5	452.5	412.4	355.2	335.1	332.2
55°	3303.8	1465.0	360.9	293.6	346.6	426.8	433.9	369.5	317.9	302.2	302.2
56°	3326.7	1399.1	325.1	275.0	327.9	419.6	421.0	358.0	303.6	286.4	286.4
57.5°	3154.9	1263.1	285.0	252.0	305.0	406.7	408.1	348.0	292.1	267.8	264.9
60°	2427.4	854.9	237.7	224.8	276.4	366.6	373.8	316.5	256.3	237.7	236.3
62.5°	1370.5	474.0	209.1	203.4	237.7	312.2	333.7	276.4	217.7	207.7	210.5
65°	625.8	260.6	176.1	164.7	191.9	240.6	269.2	227.7	179.0	167.6	167.6
67.5°	229.1	177.6	150.4	130.3	134.6	156.1	174.7	147.5	118.9	101.7	106.0
70°	163.3	148.9	131.8	113.1	104.5	101.7	100.2	83.1	58.7	45.8	48.7
72.5°	131.8	123.2	110.3	95.9	81.6	68.7	58.7	43.0	27.2	18.6	17.2
75°	94.5	90.2	80.2	68.7	57.3	48.7	40.1	27.2	14.3	7.2	7.2
77.5°	48.7	48.7	47.3	43.0	35.8	28.6	22.9	15.8	8.6	2.9	2.9
80°	37.2	40.1	41.5	37.2	32.9	25.8	18.6	11.5	5.7	1.4	1.4
82.5°	35.8	41.5	44.4	38.7	32.9	24.3	18.6	11.5	5.7	1.4	1.4
85°	8.6	8.6	12.9	14.3	18.6	20.0	15.8	10.0	4.3	1.4	1.4
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	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)