

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: P531723

Luminaire Tested: **GALN-SA7A-735-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531723  
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-SA7A-735-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 615mA 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: 17503 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

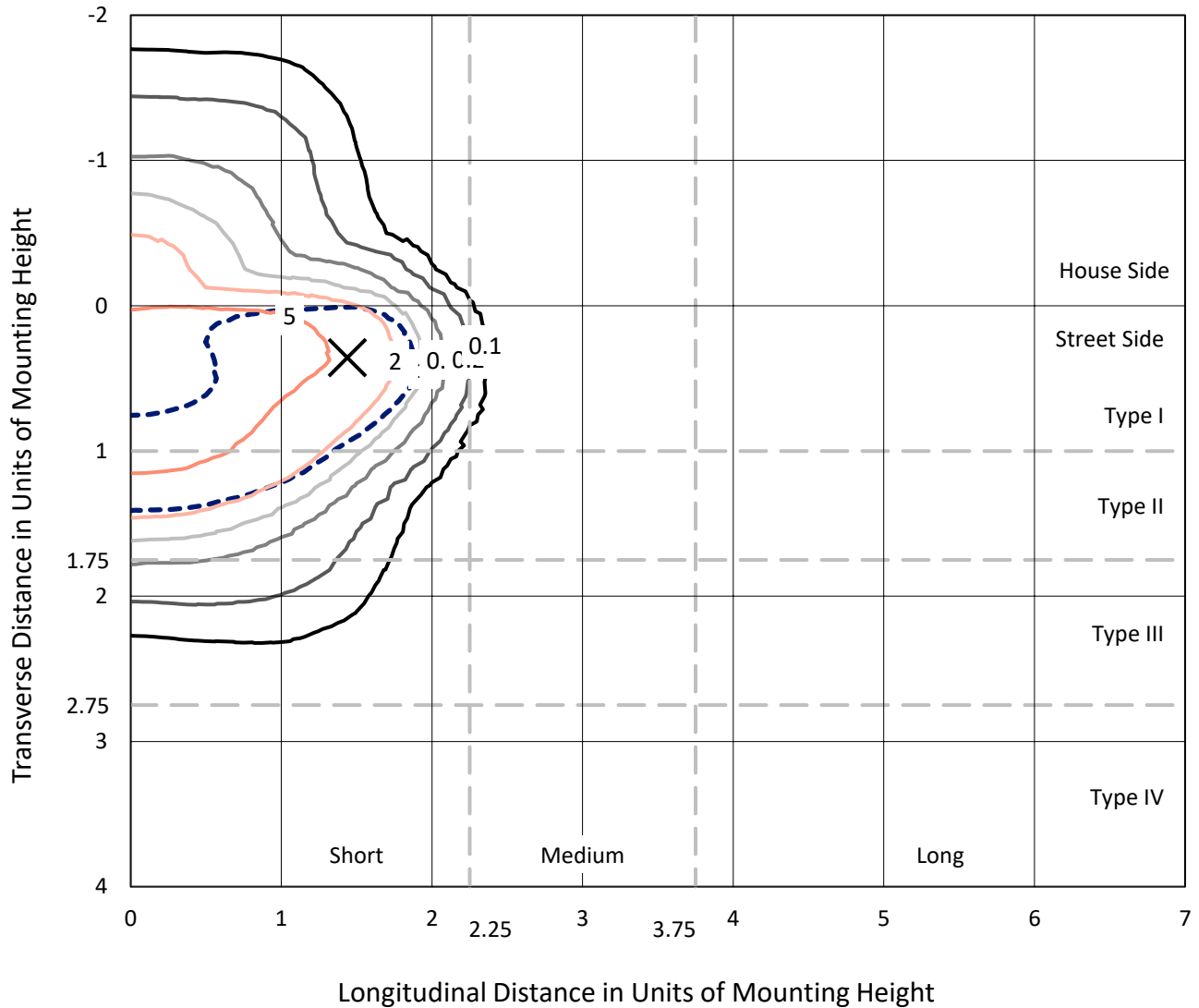
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

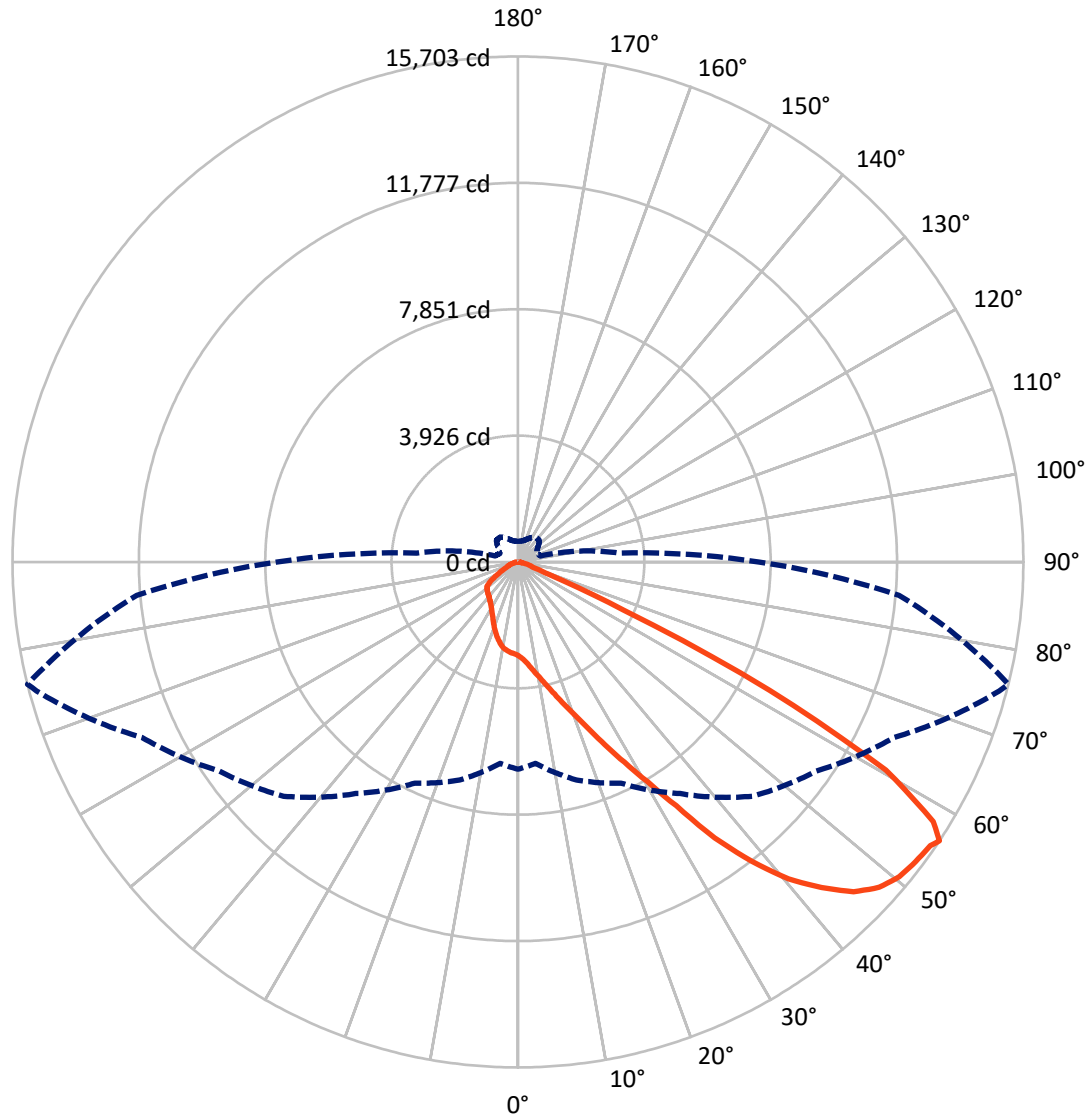
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	2749.6	0.0	2749.6
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	14753.4	0.0	14753.4
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	17503.0	0.0	17503.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.5	1.7
10°-20°	942.9	5.4
20°-30°	1709.6	9.8
30°-40°	2948.4	16.8
40°-50°	4789.7	27.4
50°-60°	5048.6	28.8
60°-70°	1542.5	8.8
70°-80°	197.7	1.1
80°-90°	30.1	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°	17503.0	100.0
0°-180°	17503.0	100.0

**Coefficient of Utilization**

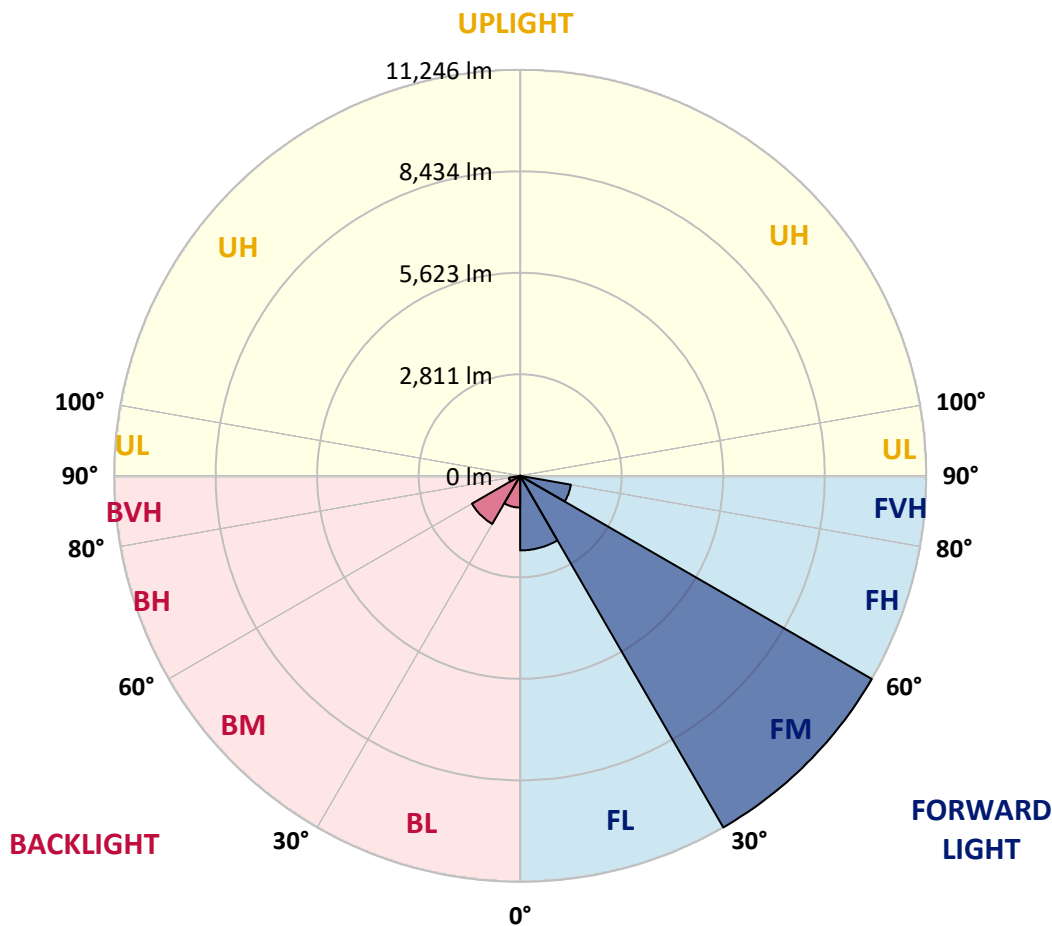


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2066.4	11.8			
FM (30°-60°)	11245.7	64.2			
FH (60°-80°)	1426.6	8.2			G1/1800
FVH (80°-90°)	14.7	0.1			G1/100
BL (0°-30°)	879.6	5.0	B2/1000		
BM (30°-60°)	1541.0	8.8	B2/2500		
BH (60°-80°)	313.7	1.8	B1/500		G1/500
BVH (80°-90°)	15.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2913.4	2913.4	2913.4	2913.4	2913.4	2913.4	2913.4	2913.4	2913.4	2913.4	2913.4
2.5°	3355.4	3278.0	3281.2	3274.8	3265.1	3229.6	3123.1	3107.0	3036.0	3016.6	2952.1
5°	3758.7	3691.0	3729.7	3671.6	3616.7	3584.5	3410.3	3329.6	3216.7	3174.7	3084.4
7.5°	4010.4	3978.1	3965.2	3968.4	3916.8	3836.1	3758.7	3581.3	3429.6	3397.4	3207.0
10°	4133.0	4113.6	4133.0	4123.3	4145.9	4155.5	4020.0	3913.6	3691.0	3636.1	3339.3
12.5°	4162.0	4200.7	4216.8	4258.8	4313.6	4407.2	4397.5	4252.3	3955.5	3920.0	3542.5
15°	4233.0	4265.2	4249.1	4316.9	4420.1	4578.2	4662.1	4639.5	4320.1	4255.6	3778.1
17.5°	4297.5	4239.4	4294.3	4429.8	4533.0	4775.0	4978.3	5071.8	4716.9	4642.7	3994.2
20°	4384.6	4368.5	4358.8	4426.6	4610.5	4933.1	5336.4	5507.4	5162.2	5084.7	4304.0
22.5°	4649.2	4652.4	4646.0	4545.9	4678.2	5042.8	5649.4	6072.0	5694.5	5630.0	4655.6
25°	4997.6	4955.7	4923.4	4842.8	4826.6	5142.8	5965.5	6762.4	6333.3	6288.2	5036.3
27.5°	5365.4	5365.4	5268.6	5194.4	5091.2	5391.2	6255.9	7433.5	7104.4	7043.1	5368.7
30°	5765.5	5788.1	5775.2	5617.1	5552.6	5662.3	6552.7	8291.7	7988.5	7911.0	5917.1
32.5°	6355.9	6307.5	6362.4	6230.1	6039.7	6136.5	7020.6	9059.6	9137.0	9027.3	6636.6
35°	7136.7	7107.7	7072.2	6856.0	6630.2	6707.6	7682.0	10004.9	10579.2	10524.4	7362.5
37.5°	7836.8	7820.7	7791.7	7643.2	7381.9	7475.5	8433.7	10989.0	11985.9	11805.2	8388.5
40°	8572.4	8659.5	8566.0	8433.7	8194.9	8401.4	9317.7	11572.9	13170.0	12950.6	9172.5
42.5°	9569.4	9501.6	9543.6	9301.6	9172.5	9398.4	10205.0	12156.9	14089.5	13828.2	10004.9
45°	10630.8	10634.1	10521.2	10443.7	10108.2	10353.4	10750.2	12479.6	14821.9	14618.6	10634.1
47.5°	11311.6	11308.4	11431.0	11553.6	11208.4	10966.4	11121.3	12786.1	15199.4	15105.8	10863.1
50°	11205.1	11237.4	11395.5	11853.6	12034.3	11708.5	11469.7	12695.7	15370.4	15360.7	11060.0
52.5°	9746.8	9853.3	10117.9	10779.3	11689.1	12092.4	11834.3	12863.5	15454.3	15470.4	11353.6
55°	7420.6	7478.7	7982.0	8785.4	9792.0	11172.9	11689.1	12995.8	15518.8	15547.8	11708.5
56°	6436.6	6281.7	7007.6	7578.7	8782.1	10292.1	11321.3	12892.5	15480.1	15702.7	11885.9
57.5°	4858.9	4755.7	5342.8	6055.9	7214.1	8808.0	10179.2	12405.3	15218.7	15215.5	11631.0
60°	2955.3	2852.1	3303.8	3723.2	4371.7	5423.5	6878.6	9879.1	12866.7	13137.7	9417.7
62.5°	1758.4	1822.9	2268.1	2523.0	2732.7	2842.4	3558.7	5872.0	8585.3	8778.9	5842.9
65°	1171.2	1193.8	1529.3	1948.7	2042.3	1626.1	1448.6	2377.8	3723.2	3603.8	2410.1
67.5°	722.7	774.3	1026.0	1464.8	1622.9	1187.3	687.2	887.2	1026.0	1026.0	696.9
70°	438.8	464.6	684.0	996.9	1113.1	764.6	500.1	500.1	493.6	484.0	416.2
72.5°	209.7	225.8	348.4	513.0	522.7	403.3	387.2	422.7	413.0	409.7	345.2
75°	90.3	96.8	122.6	161.3	183.9	171.0	235.5	303.3	313.0	303.3	248.4
77.5°	29.0	32.3	45.2	58.1	61.3	74.2	100.0	125.8	145.2	135.5	122.6
80°	3.2	6.5	12.9	29.0	45.2	58.1	74.2	83.9	93.6	93.6	87.1
82.5°	3.2	3.2	12.9	25.8	41.9	54.8	71.0	80.7	93.6	96.8	90.3
85°	0.0	3.2	9.7	22.6	35.5	35.5	32.3	32.3	22.6	22.6	22.6
87.5°	0.0	0.0	3.2	3.2	3.2	6.5	6.5	6.5	6.5	6.5	6.5
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°	2913.4	2913.4	2913.4	2913.4	2913.4	2913.4	2913.4	2913.4	2913.4	2913.4	2913.4
2.5°	2939.2	2932.8	2845.6	2790.8	2761.8	2703.7	2668.2	2642.4	2623.0	2600.4	2603.7
5°	2977.9	2955.3	2810.2	2710.1	2590.8	2526.2	2471.4	2426.2	2397.2	2390.7	2377.8
7.5°	3087.6	2968.2	2748.9	2568.2	2416.5	2352.0	2303.6	2274.6	2287.5	2258.5	2281.0
10°	3171.5	2994.1	2674.7	2413.3	2261.7	2213.3	2187.5	2210.1	2242.3	2229.4	2213.3
12.5°	3274.8	3019.9	2555.3	2264.9	2122.9	2087.5	2132.6	2174.6	2239.1	2264.9	2232.6
15°	3390.9	3048.9	2403.6	2093.9	2003.6	2032.6	2110.0	2184.2	2248.8	2281.0	2300.4
17.5°	3532.9	3039.2	2255.2	1958.4	1890.6	1974.5	2068.1	2135.8	2232.6	2281.0	2268.1
20°	3665.1	3007.0	2090.7	1822.9	1826.1	1903.6	1981.0	2090.7	2142.3	2206.8	2184.2
22.5°	3791.0	2948.9	1919.7	1729.3	1729.3	1848.7	1887.4	1958.4	2003.6	2035.8	2032.6
25°	3968.4	2839.2	1777.7	1639.0	1677.7	1755.1	1787.4	1810.0	1790.6	1816.4	1819.7
27.5°	4094.2	2726.3	1661.6	1558.3	1629.3	1687.4	1677.7	1664.8	1619.6	1584.1	1606.7
30°	4229.8	2594.0	1561.6	1503.5	1542.2	1593.8	1555.1	1516.4	1445.4	1387.3	1390.6
32.5°	4423.3	2532.7	1474.4	1439.0	1490.6	1497.0	1455.1	1397.0	1326.0	1271.2	1268.0
35°	4784.7	2494.0	1400.2	1397.0	1406.7	1409.9	1368.0	1297.0	1268.0	1222.8	1238.9
37.5°	5146.0	2474.6	1348.6	1335.7	1332.5	1335.7	1287.3	1219.6	1274.4	1271.2	1277.6
40°	5607.4	2561.7	1274.4	1258.3	1261.5	1261.5	1200.2	1180.8	1277.6	1287.3	1290.5
42.5°	6075.2	2671.4	1226.0	1174.4	1187.3	1187.3	1155.0	1132.5	1200.2	1135.7	1126.0
45°	6481.8	2832.7	1174.4	1090.5	1122.8	1138.9	1129.2	1090.5	1048.6	938.9	938.9
47.5°	6614.0	2974.7	1113.1	1009.8	1035.7	1106.6	1077.6	996.9	922.7	832.4	825.9
50°	6846.3	3129.6	1064.7	916.3	971.1	1058.2	1029.2	948.5	864.7	800.1	803.4
52.5°	7085.1	3307.0	974.4	806.6	874.3	1019.5	1019.5	929.2	800.1	755.0	748.5
55°	7443.2	3300.6	813.0	661.4	780.8	961.5	977.6	832.4	716.3	680.8	680.8
56°	7494.8	3152.2	732.4	619.5	738.8	945.3	948.5	806.6	684.0	645.3	645.3
57.5°	7107.7	2845.6	642.0	567.8	687.2	916.3	919.5	784.0	658.2	603.3	596.9
60°	5468.7	1926.1	535.6	506.5	622.7	825.9	842.1	713.0	577.5	535.6	532.3
62.5°	3087.6	1067.9	471.0	458.1	535.6	703.3	751.7	622.7	490.4	467.8	474.3
65°	1409.9	587.2	396.8	371.0	432.3	542.0	606.6	513.0	403.3	377.5	377.5
67.5°	516.2	400.1	338.8	293.6	303.3	351.7	393.6	332.3	267.8	229.1	238.8
70°	367.8	335.5	296.8	254.9	235.5	229.1	225.8	187.1	132.3	103.2	109.7
72.5°	296.8	277.5	248.4	216.2	183.9	154.9	132.3	96.8	61.3	41.9	38.7
75°	212.9	203.3	180.7	154.9	129.1	109.7	90.3	61.3	32.3	16.1	16.1
77.5°	109.7	109.7	106.5	96.8	80.7	64.5	51.6	35.5	19.4	6.5	6.5
80°	83.9	90.3	93.6	83.9	74.2	58.1	41.9	25.8	12.9	3.2	3.2
82.5°	80.7	93.6	100.0	87.1	74.2	54.8	41.9	25.8	12.9	3.2	3.2
85°	19.4	19.4	29.0	32.3	41.9	45.2	35.5	22.6	9.7	3.2	3.2
87.5°	6.5	6.5	6.5	6.5	6.5	6.5	3.2	3.2	3.2	3.2	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)