

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: P530787

Luminaire Tested: **GALN-SA6A-735-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530787  
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-SA6A-735-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 14902 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

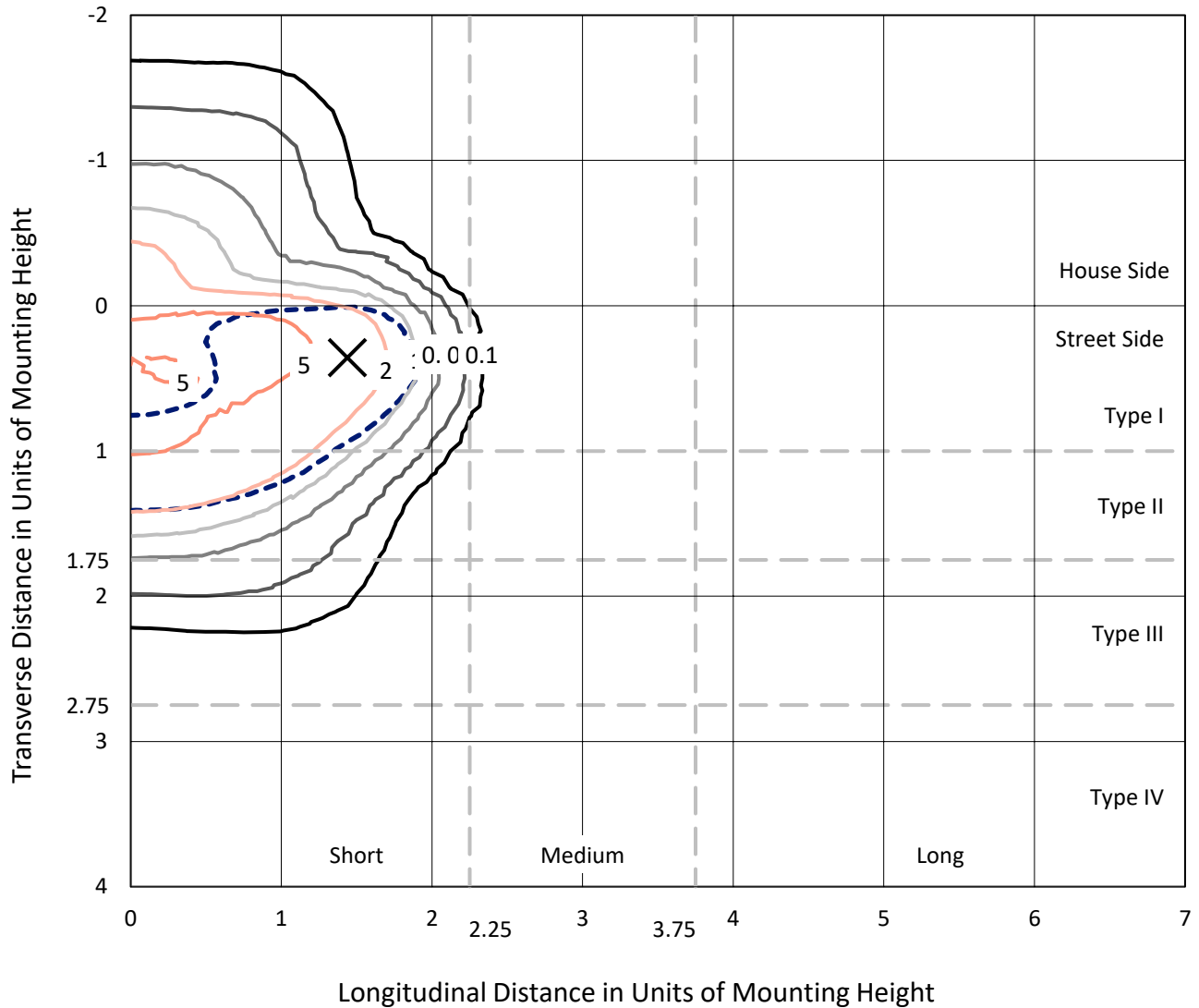
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

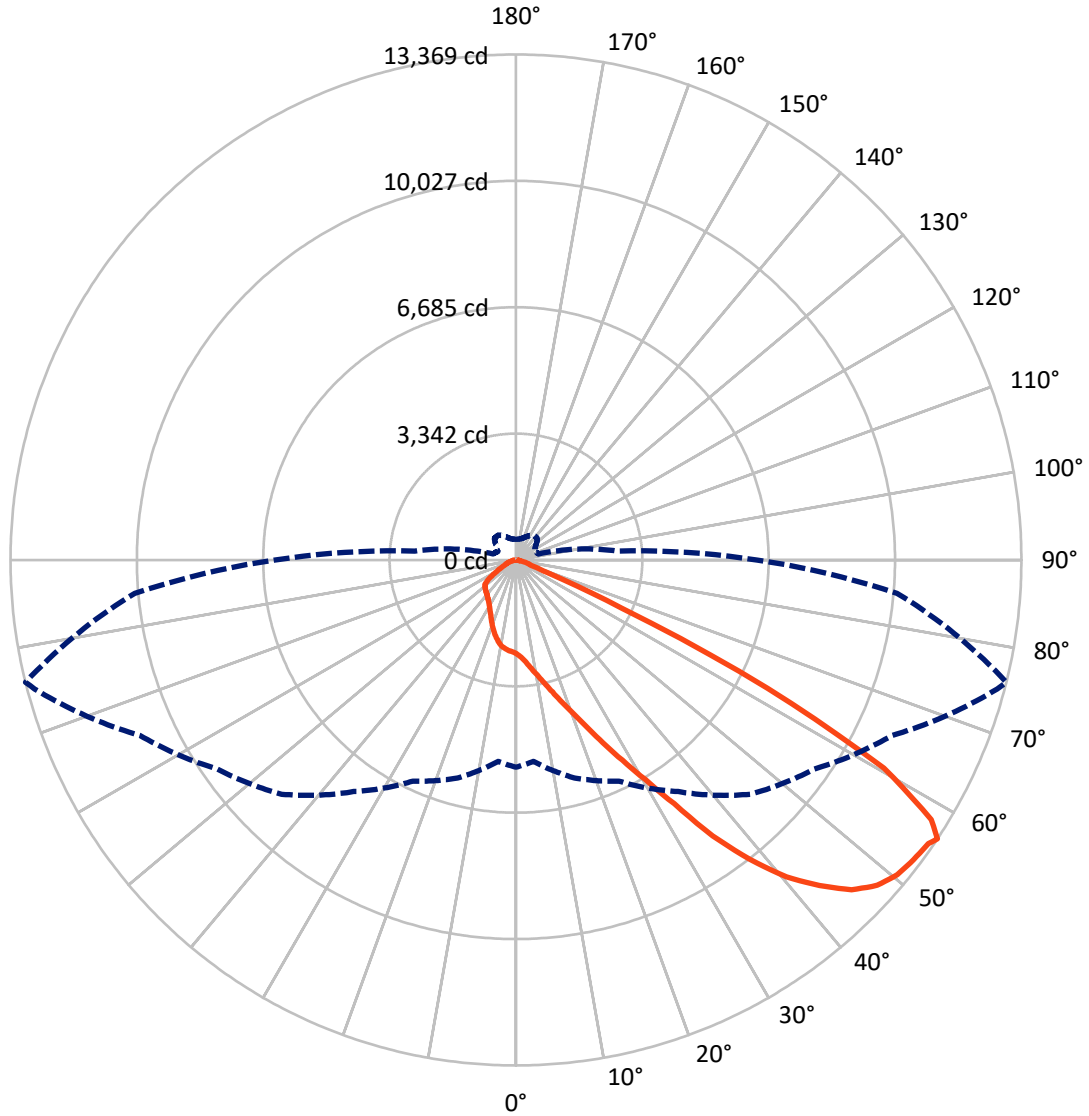
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	2341.0	0.0	2341.0
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	12561.0	0.0	12561.0
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	14902.0	0.0	14902.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.9	1.7
10°-20°	802.7	5.4
20°-30°	1455.6	9.8
30°-40°	2510.2	16.8
40°-50°	4078.0	27.4
50°-60°	4298.3	28.8
60°-70°	1313.3	8.8
70°-80°	168.4	1.1
80°-90°	25.6	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°	14902.0	100.0
0°-180°	14902.0	100.0

**Coefficient of Utilization**

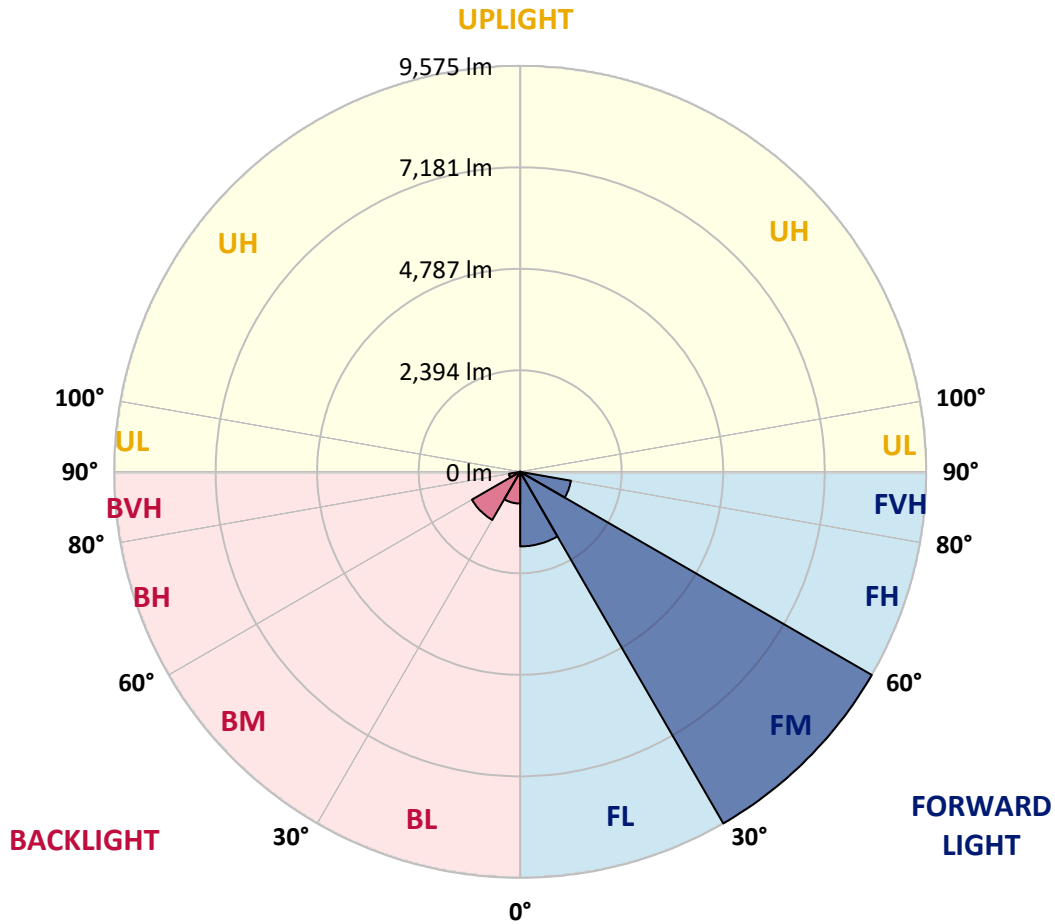


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1759.3	11.8			
FM (30°-60°)	9574.5	64.2			
FH (60°-80°)	1214.6	8.2			G1/1800
FVH (80°-90°)	12.5	0.1			G1/100
BL (0°-30°)	748.9	5.0	B2/1000		
BM (30°-60°)	1312.0	8.8	B2/2500		
BH (60°-80°)	267.1	1.8	B1/500		G1/500
BVH (80°-90°)	13.0	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°	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5
2.5°	2856.8	2790.9	2793.6	2788.1	2779.9	2749.7	2659.0	2645.3	2584.8	2568.4	2513.4
5°	3200.2	3142.5	3175.4	3126.0	3079.3	3051.8	2903.5	2834.8	2738.7	2703.0	2626.0
7.5°	3414.4	3386.9	3376.0	3378.7	3334.7	3266.1	3200.2	3049.1	2920.0	2892.5	2730.4
10°	3518.8	3502.3	3518.8	3510.6	3529.8	3538.0	3422.7	3332.0	3142.5	3095.8	2843.1
12.5°	3543.5	3576.5	3590.2	3625.9	3672.6	3752.3	3744.0	3620.4	3367.7	3337.5	3016.1
15°	3603.9	3631.4	3617.7	3675.4	3763.3	3897.9	3969.3	3950.1	3678.1	3623.2	3216.6
17.5°	3658.9	3609.4	3656.1	3771.5	3859.4	4065.4	4238.5	4318.1	4016.0	3952.8	3400.7
20°	3733.1	3719.3	3711.1	3768.8	3925.3	4200.0	4543.4	4689.0	4395.1	4329.1	3664.4
22.5°	3958.3	3961.0	3955.6	3870.4	3983.0	4293.4	4809.8	5169.7	4848.3	4793.4	3963.8
25°	4255.0	4219.3	4191.8	4123.1	4109.4	4378.6	5079.0	5757.5	5392.2	5353.7	4287.9
27.5°	4568.1	4568.1	4485.7	4422.5	4334.6	4590.1	5326.3	6328.9	6048.7	5996.5	4570.9
30°	4908.7	4928.0	4917.0	4782.4	4727.4	4820.8	5579.0	7059.6	6801.4	6735.4	5037.8
32.5°	5411.4	5370.2	5416.9	5304.3	5142.2	5224.6	5977.3	7713.3	7779.3	7685.9	5650.4
35°	6076.2	6051.4	6021.2	5837.2	5644.9	5710.8	6540.4	8518.2	9007.1	8960.4	6268.5
37.5°	6672.2	6658.5	6633.8	6507.4	6284.9	6364.6	7180.4	9356.0	10204.8	10050.9	7142.0
40°	7298.5	7372.7	7293.0	7180.4	6977.2	7153.0	7933.1	9853.2	11212.9	11026.1	7809.5
42.5°	8147.3	8089.7	8125.4	7919.3	7809.5	8001.8	8688.5	10350.4	11995.8	11773.3	8518.2
45°	9051.1	9053.8	8957.7	8891.7	8606.1	8814.8	9152.7	10625.1	12619.3	12446.3	9053.8
47.5°	9630.7	9627.9	9732.3	9836.7	9542.8	9336.7	9468.6	10886.0	12940.7	12861.0	9248.8
50°	9540.0	9567.5	9702.1	10092.1	10246.0	9968.5	9765.3	10809.1	13086.3	13078.0	9416.4
52.5°	8298.4	8389.1	8614.3	9177.4	9952.1	10295.4	10075.7	10951.9	13157.7	13171.4	9666.4
55°	6317.9	6367.3	6795.9	7479.8	8336.9	9512.6	9952.1	11064.6	13212.6	13237.4	9968.5
56°	5480.1	5348.2	5966.3	6452.5	7477.1	8762.6	9638.9	10976.7	13179.7	13369.2	10119.6
57.5°	4136.8	4048.9	4548.9	5156.0	6142.1	7499.1	8666.5	10561.9	12957.2	12954.4	9902.6
60°	2516.2	2428.3	2812.8	3169.9	3722.1	4617.6	5856.4	8411.0	10954.7	11185.4	8018.2
62.5°	1497.1	1552.0	1931.1	2148.1	2326.6	2420.0	3029.8	4999.4	7309.5	7474.3	4974.7
65°	997.1	1016.4	1302.0	1659.1	1738.8	1384.4	1233.4	2024.5	3169.9	3068.3	2051.9
67.5°	615.3	659.3	873.5	1247.1	1381.7	1010.9	585.1	755.4	873.5	873.5	593.3
70°	373.6	395.6	582.3	848.8	947.7	651.0	425.8	425.8	420.3	412.0	354.4
72.5°	178.5	192.3	296.7	436.8	445.0	343.4	329.6	359.8	351.6	348.9	293.9
75°	76.9	82.4	104.4	137.3	156.6	145.6	200.5	258.2	266.5	258.2	211.5
77.5°	24.7	27.5	38.5	49.4	52.2	63.2	85.2	107.1	123.6	115.4	104.4
80°	2.7	5.5	11.0	24.7	38.5	49.4	63.2	71.4	79.7	79.7	74.2
82.5°	2.7	2.7	11.0	22.0	35.7	46.7	60.4	68.7	79.7	82.4	76.9
85°	0.0	2.7	8.2	19.2	30.2	30.2	27.5	27.5	19.2	19.2	19.2
87.5°	0.0	0.0	2.7	2.7	2.7	5.5	5.5	5.5	5.5	5.5	5.5
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°	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5	2480.5
2.5°	2502.4	2496.9	2422.8	2376.1	2351.4	2301.9	2271.7	2249.7	2233.2	2214.0	2216.8
5°	2535.4	2516.2	2392.6	2307.4	2205.8	2150.8	2104.1	2065.7	2041.0	2035.5	2024.5
7.5°	2628.8	2527.2	2340.4	2186.5	2057.4	2002.5	1961.3	1936.6	1947.6	1922.8	1942.1
10°	2700.2	2549.1	2277.2	2054.7	1925.6	1884.4	1862.4	1881.6	1909.1	1898.1	1884.4
12.5°	2788.1	2571.1	2175.6	1928.3	1807.5	1777.3	1815.7	1851.4	1906.4	1928.3	1900.9
15°	2887.0	2595.8	2046.4	1782.7	1705.8	1730.6	1796.5	1859.7	1914.6	1942.1	1958.5
17.5°	3007.9	2587.6	1920.1	1667.4	1609.7	1681.1	1760.8	1818.5	1900.9	1942.1	1931.1
20°	3120.5	2560.1	1780.0	1552.0	1554.8	1620.7	1686.6	1780.0	1823.9	1878.9	1859.7
22.5°	3227.6	2510.7	1634.4	1472.3	1472.3	1574.0	1606.9	1667.4	1705.8	1733.3	1730.6
25°	3378.7	2417.3	1513.5	1395.4	1428.4	1494.3	1521.8	1541.0	1524.5	1546.5	1549.3
27.5°	3485.8	2321.1	1414.7	1326.8	1387.2	1436.6	1428.4	1417.4	1378.9	1348.7	1368.0
30°	3601.2	2208.5	1329.5	1280.1	1313.0	1357.0	1324.0	1291.0	1230.6	1181.2	1183.9
32.5°	3766.0	2156.3	1255.3	1225.1	1269.1	1274.6	1238.9	1189.4	1129.0	1082.3	1079.5
35°	4073.7	2123.4	1192.2	1189.4	1197.7	1200.4	1164.7	1104.3	1079.5	1041.1	1054.8
37.5°	4381.3	2106.9	1148.2	1137.2	1134.5	1137.2	1096.0	1038.3	1085.0	1082.3	1087.8
40°	4774.1	2181.0	1085.0	1071.3	1074.0	1074.0	1021.9	1005.4	1087.8	1096.0	1098.8
42.5°	5172.4	2274.4	1043.8	999.9	1010.9	1010.9	983.4	964.2	1021.9	966.9	958.7
45°	5518.5	2411.8	999.9	928.5	955.9	969.7	961.4	928.5	892.7	799.4	799.4
47.5°	5631.2	2532.7	947.7	859.8	881.8	942.2	917.5	848.8	785.6	708.7	703.2
50°	5828.9	2664.5	906.5	780.1	826.8	901.0	876.3	807.6	736.2	681.2	684.0
52.5°	6032.2	2815.6	829.6	686.7	744.4	868.0	868.0	791.1	681.2	642.8	637.3
55°	6337.1	2810.1	692.2	563.1	664.8	818.6	832.3	708.7	609.8	579.6	579.6
56°	6381.1	2683.7	623.5	527.4	629.0	804.8	807.6	686.7	582.3	549.4	549.4
57.5°	6051.4	2422.8	546.6	483.5	585.1	780.1	782.9	667.5	560.4	513.7	508.2
60°	4656.0	1639.9	456.0	431.3	530.2	703.2	716.9	607.1	491.7	456.0	453.2
62.5°	2628.8	909.2	401.0	390.1	456.0	598.8	640.0	530.2	417.5	398.3	403.8
65°	1200.4	499.9	337.9	315.9	368.1	461.5	516.4	436.8	343.4	321.4	321.4
67.5°	439.5	340.6	288.4	250.0	258.2	299.4	335.1	282.9	228.0	195.0	203.3
70°	313.1	285.7	252.7	217.0	200.5	195.0	192.3	159.3	112.6	87.9	93.4
72.5°	252.7	236.2	211.5	184.0	156.6	131.9	112.6	82.4	52.2	35.7	33.0
75°	181.3	173.1	153.8	131.9	109.9	93.4	76.9	52.2	27.5	13.7	13.7
77.5°	93.4	93.4	90.6	82.4	68.7	54.9	44.0	30.2	16.5	5.5	5.5
80°	71.4	76.9	79.7	71.4	63.2	49.4	35.7	22.0	11.0	2.7	2.7
82.5°	68.7	79.7	85.2	74.2	63.2	46.7	35.7	22.0	11.0	2.7	2.7
85°	16.5	16.5	24.7	27.5	35.7	38.5	30.2	19.2	8.2	2.7	2.7
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	2.7	2.7	2.7	2.7	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)