

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: P530270

Luminaire Tested: **GALN-SA5C-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530270  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-727-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25874 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

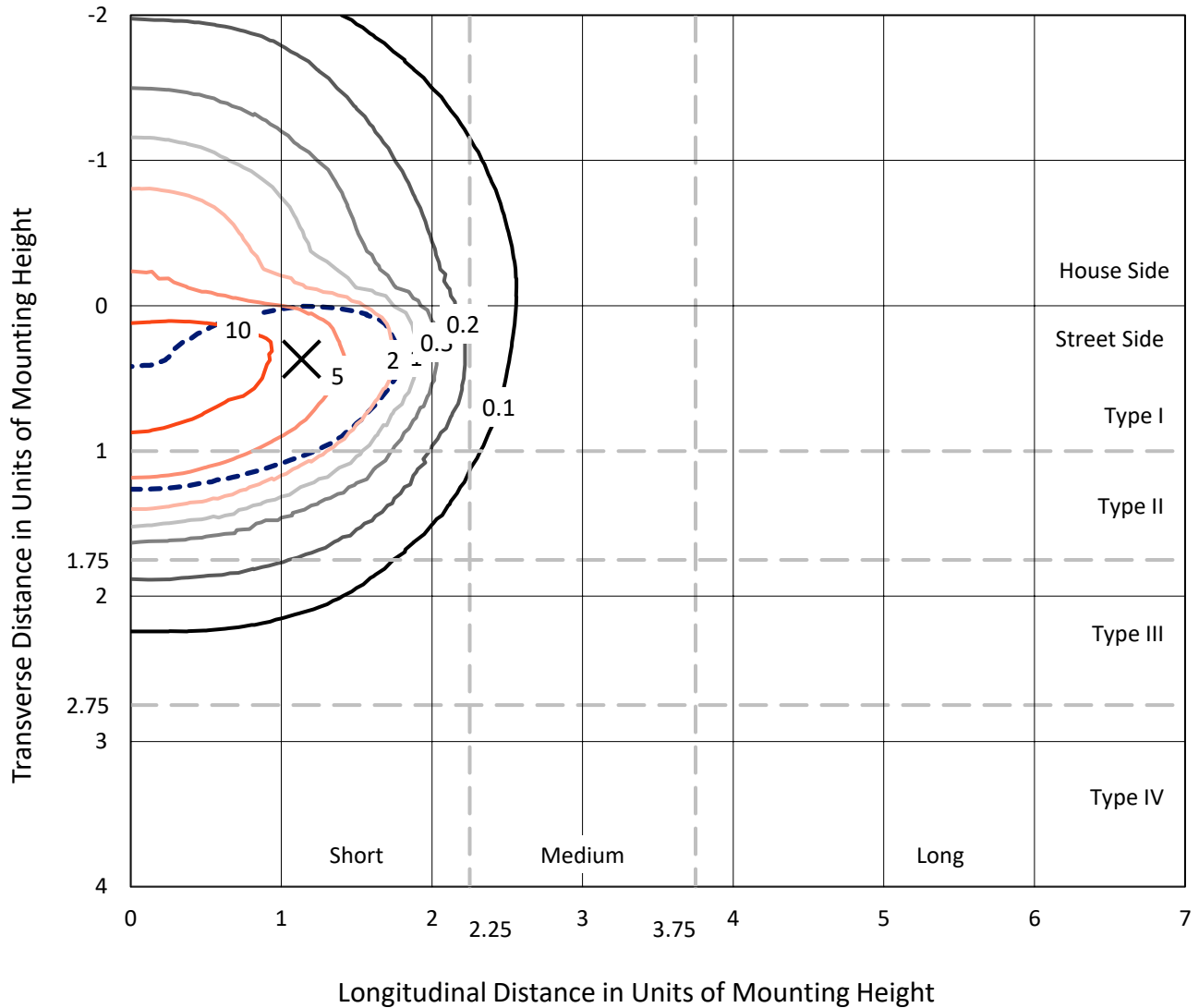
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

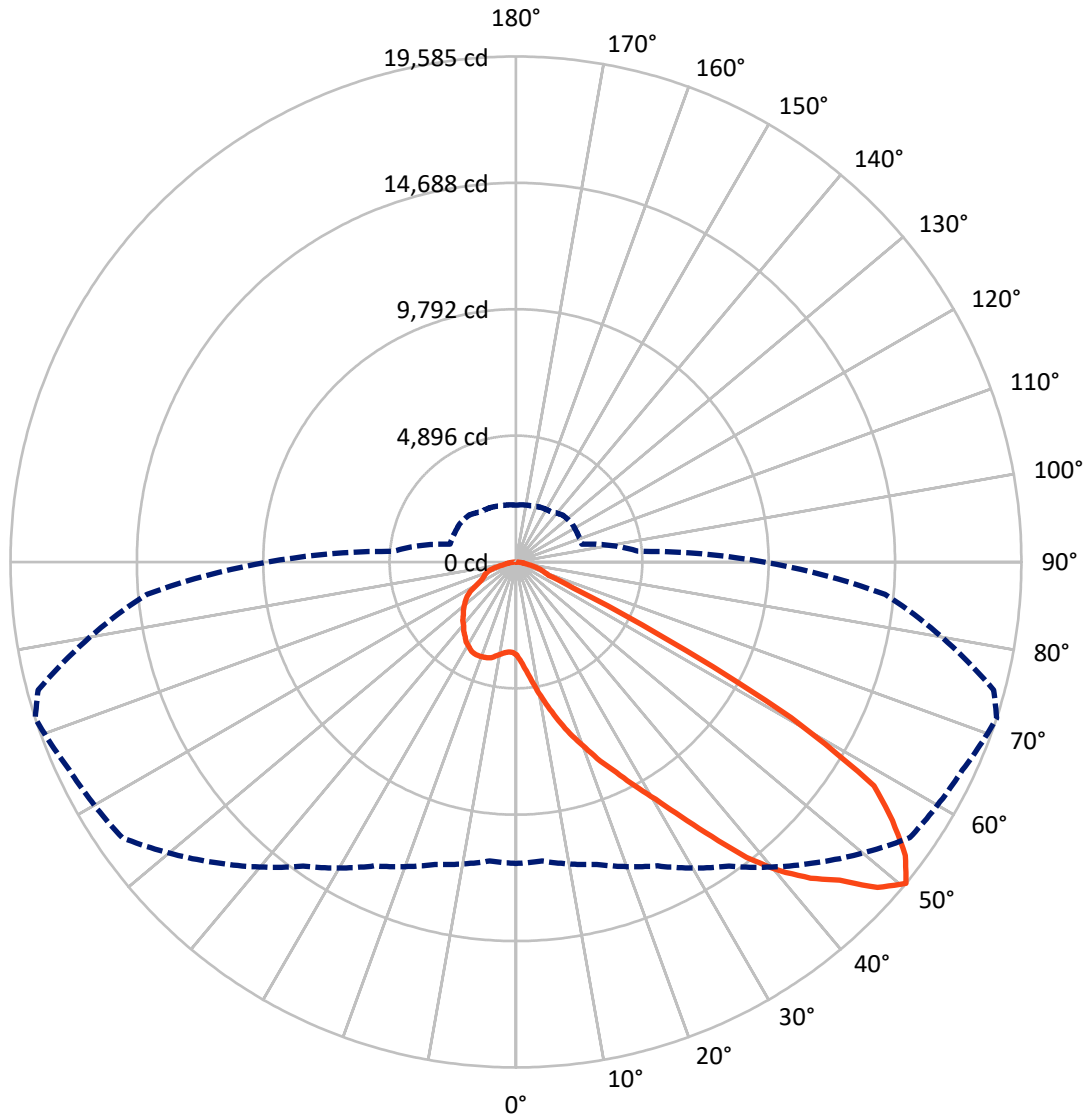
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5927.9	0.0	5927.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	19946.1	0.0	19946.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	25874.0	0.0	25874.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.7	1.6
10°-20°	1583.8	6.1
20°-30°	3070.9	11.9
30°-40°	5087.5	19.7
40°-50°	7118.5	27.5
50°-60°	6005.4	23.2
60°-70°	1830.4	7.1
70°-80°	642.2	2.5
80°-90°	111.6	0.4
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°	25874.0	100.0
0°-180°	25874.0	100.0

**Coefficient of Utilization**

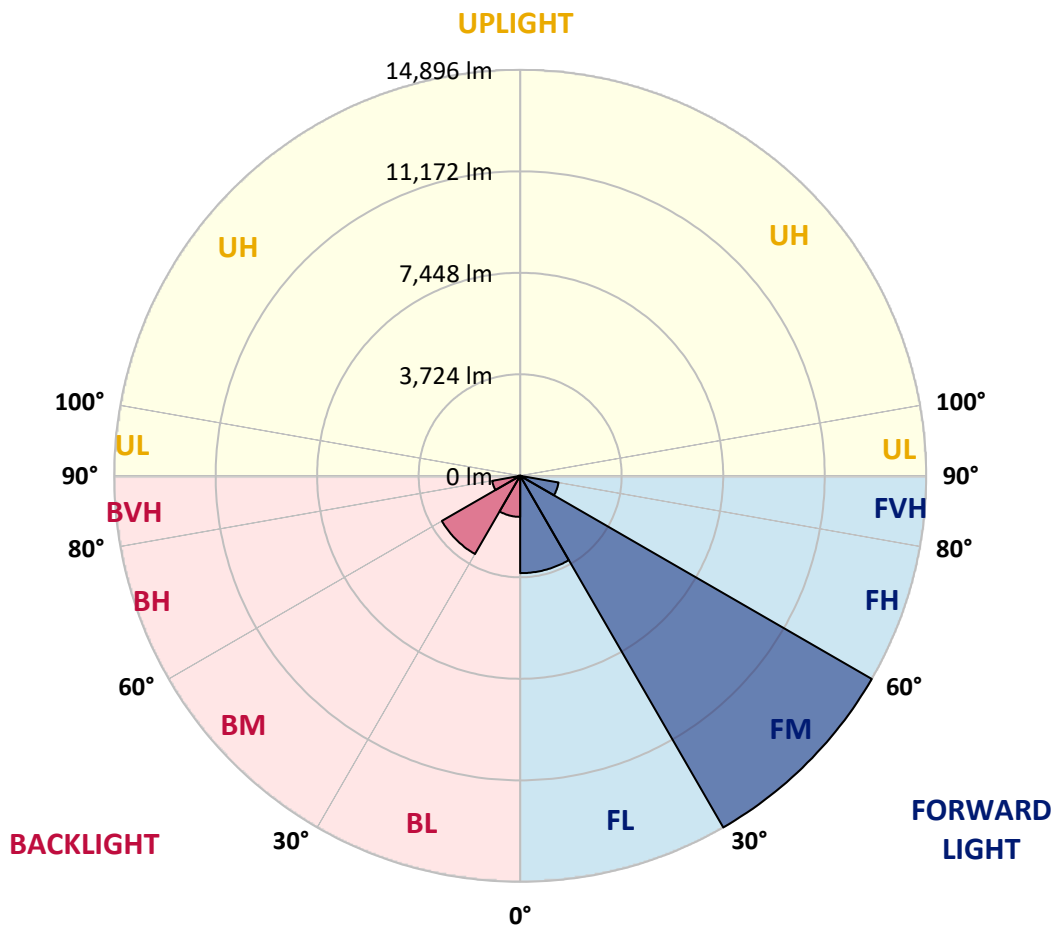


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3571.5	13.8			
FM (30°-60°)	14896.4	57.6			
FH (60°-80°)	1428.2	5.5			G1/1800
FVH (80°-90°)	50.0	0.2			G1/100
BL (0°-30°)	1506.9	5.8	B3/2500		
BM (30°-60°)	3315.0	12.8	B3/5000		
BH (60°-80°)	1044.4	4.0	B3/2500		G3/2500
BVH (80°-90°)	61.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3601.9	3601.9	3601.9	3601.9	3601.9	3601.9	3601.9	3601.9	3601.9	3601.9	3601.9
2.5°	4632.8	4604.0	4517.6	4488.7	4386.3	4200.6	4136.6	3947.7	3867.6	3794.0	3707.5
5°	5859.1	5724.6	5715.0	5551.7	5314.8	5177.1	4767.3	4491.9	4239.0	4110.9	3874.0
7.5°	6640.3	6643.5	6643.5	6509.0	6320.1	5971.1	5602.9	5106.7	4725.7	4536.8	4133.4
10°	7383.1	7319.0	7283.8	7271.0	7142.9	6803.6	6409.7	5795.0	5273.2	5052.2	4328.7
12.5°	7908.1	7853.7	7933.7	7892.1	7799.3	7578.4	7207.0	6505.8	5852.7	5554.9	4642.4
15°	8157.9	8196.3	8260.3	8375.6	8334.0	8250.7	7840.9	7235.8	6477.0	6140.8	4921.0
17.5°	8542.1	8436.4	8513.2	8657.3	8772.6	8734.2	8500.4	7764.1	7094.9	6681.9	5295.6
20°	8811.0	8750.2	8788.6	8955.1	9041.5	9259.2	9137.6	8455.6	7687.2	7251.8	5737.4
22.5°	9579.4	9489.8	9364.9	9390.5	9422.5	9576.2	9605.0	9214.4	8375.6	7914.5	6156.8
25°	10527.1	10443.9	10296.6	10146.1	10053.3	10024.4	10123.7	9809.9	9035.1	8558.1	6608.3
27.5°	11570.8	11430.0	11337.1	11026.6	10776.8	10738.4	10690.4	10520.7	9816.3	9300.9	7117.3
30°	12585.8	12473.7	12348.9	11852.6	11593.3	11551.6	11314.7	11362.7	10664.8	10091.7	7693.6
32.5°	13354.2	13363.8	13078.8	12704.2	12460.9	12240.0	12153.5	12291.2	11753.3	11292.3	8337.2
35°	13975.3	14004.1	13732.0	13392.6	13130.1	13283.7	13245.3	13309.4	13053.2	12489.7	9086.3
37.5°	14580.4	14436.3	14145.0	13981.7	13844.0	14097.0	14423.5	14478.0	14526.0	13863.2	9957.2
40°	14679.7	14692.5	14522.8	14638.0	14465.2	14846.2	15605.0	15534.5	15729.8	15150.3	10901.7
42.5°	14538.8	14567.6	14634.8	14798.1	15214.3	15672.2	16799.2	16511.0	16747.9	16232.5	11820.6
45°	14308.3	14189.8	14273.1	14894.2	15614.6	16632.7	17890.9	17666.8	17590.0	17157.8	12915.5
47.5°	13206.9	13328.6	13587.9	14353.1	15435.3	16799.2	18665.8	18614.5	18845.0	18540.9	13911.3
50°	11679.7	11631.7	12131.1	12992.4	14388.3	16472.6	18624.1	19088.4	19584.6	19162.0	14356.3
52.5°	8747.0	9003.1	9432.1	10501.5	12492.9	14692.5	17714.9	18489.7	18893.1	18803.4	13997.7
55°	5529.3	5606.1	5865.5	7136.5	8929.5	11791.8	15185.5	16981.7	17702.0	18038.2	13667.9
57.5°	2686.2	2542.1	2859.1	3880.4	5157.9	7930.5	11711.7	14791.7	16357.3	16965.7	12950.8
60°	1402.3	1456.8	1581.6	1946.6	2667.0	4117.4	7299.8	9857.9	12249.6	13184.5	9816.3
62.5°	1162.2	1181.4	1264.7	1447.2	1773.7	2369.2	3726.7	4805.7	6246.5	7088.5	5583.7
65°	986.1	995.7	1085.4	1207.0	1415.1	1668.1	1917.8	2007.4	2430.1	2494.1	1985.0
67.5°	822.8	832.4	928.5	1043.7	1178.2	1245.5	1309.5	1303.1	1351.1	1331.9	1328.7
70°	633.9	643.5	742.8	864.5	931.7	893.3	1091.8	1136.6	1155.8	1171.8	1197.4
72.5°	457.8	477.0	553.9	640.3	605.1	694.8	899.7	966.9	992.5	1002.1	1034.1
75°	333.0	339.4	358.6	333.0	384.2	483.5	633.9	717.2	749.2	758.8	806.8
77.5°	147.3	150.5	153.7	192.1	246.5	301.0	377.8	445.0	489.9	502.7	515.5
80°	76.8	80.0	99.3	131.3	176.1	220.9	275.3	313.8	342.6	345.8	358.6
82.5°	48.0	51.2	70.4	92.8	124.9	163.3	201.7	233.7	256.1	259.3	262.5
85°	22.4	28.8	41.6	57.6	83.2	105.7	108.9	92.8	99.3	102.5	96.1
87.5°	6.4	9.6	12.8	9.6	12.8	12.8	16.0	19.2	19.2	19.2	22.4
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°	3601.9	3601.9	3601.9	3601.9	3601.9	3601.9	3601.9	3601.9	3601.9	3601.9	3601.9
2.5°	3659.5	3630.7	3518.6	3477.0	3368.2	3387.4	3329.7	3326.5	3313.7	3310.5	3307.3
5°	3749.2	3659.5	3525.0	3422.6	3361.8	3355.4	3313.7	3313.7	3326.5	3336.1	3313.7
7.5°	3896.4	3794.0	3566.7	3470.6	3416.2	3406.6	3377.8	3355.4	3384.2	3374.6	3348.9
10°	4066.1	3886.8	3646.7	3563.5	3473.8	3451.4	3451.4	3461.0	3413.0	3429.0	3403.4
12.5°	4255.0	4014.9	3749.2	3653.1	3547.5	3534.6	3528.2	3457.8	3483.4	3470.6	3406.6
15°	4495.1	4162.2	3880.4	3717.1	3627.5	3569.9	3486.6	3473.8	3457.8	3425.8	3397.0
17.5°	4754.5	4322.3	3941.3	3736.4	3601.9	3560.3	3496.2	3429.0	3381.0	3387.4	3365.0
20°	4975.4	4469.5	3963.7	3755.6	3582.7	3502.6	3403.4	3361.8	3310.5	3307.3	3304.1
22.5°	5237.9	4668.0	3995.7	3704.3	3525.0	3441.8	3374.6	3300.9	3265.7	3220.9	3243.3
25°	5551.7	4744.9	4002.1	3675.5	3483.4	3336.1	3300.9	3220.9	3208.1	3144.0	3156.8
27.5°	5779.0	4786.5	3950.9	3585.9	3387.4	3275.3	3211.3	3153.6	3131.2	3083.2	3070.4
30°	6083.2	4850.5	3842.0	3473.8	3291.3	3166.5	3128.0	3115.2	3051.2	3000.0	2993.6
32.5°	6429.0	4892.2	3771.6	3358.6	3192.1	3096.0	3115.2	3054.4	2974.4	2929.5	2916.7
35°	6704.3	4908.2	3595.5	3227.3	3124.8	3064.0	3041.6	3028.8	2913.5	2871.9	2839.9
37.5°	7123.7	4872.9	3448.2	3134.4	3051.2	3028.8	3009.6	2923.1	2791.9	2731.0	2686.2
40°	7613.6	4863.3	3259.3	3003.2	2980.8	3006.4	2948.7	2814.3	2631.8	2564.5	2532.5
42.5°	8084.2	4930.6	3140.8	2932.7	2903.9	2913.5	2833.5	2631.8	2542.1	2503.7	2452.5
45°	8871.8	5071.4	2945.5	2823.9	2811.1	2804.7	2708.6	2497.3	2446.1	2398.1	2388.4
47.5°	9582.6	4978.6	2820.7	2711.8	2724.6	2689.4	2484.5	2417.3	2359.6	2311.6	2295.6
50°	9624.2	4757.7	2644.6	2625.4	2628.6	2567.7	2372.4	2327.6	2254.0	2222.0	2199.5
52.5°	9406.5	4395.9	2481.3	2487.7	2497.3	2398.1	2234.8	2202.8	2141.9	2097.1	2084.3
55°	8795.0	3832.4	2321.2	2346.8	2372.4	2183.5	2132.3	2052.3	2004.2	1940.2	1943.4
57.5°	7748.0	3086.4	2097.1	2138.7	2193.1	1985.0	1946.6	1847.4	1776.9	1725.7	1719.3
60°	5193.1	2196.3	1760.9	1776.9	1898.6	1815.3	1812.1	1712.9	1616.8	1572.0	1546.4
62.5°	3064.0	1677.7	1520.8	1504.8	1501.6	1549.6	1629.7	1594.4	1469.6	1383.1	1408.7
65°	1604.0	1450.4	1415.1	1360.7	1328.7	1315.9	1376.7	1392.7	1309.5	1216.6	1210.2
67.5°	1347.9	1347.9	1319.1	1299.9	1255.1	1200.6	1162.2	1111.0	1098.2	1072.6	1040.5
70°	1226.2	1258.3	1248.7	1203.8	1165.4	1104.6	1005.3	922.1	842.0	813.2	832.4
72.5°	1069.4	1101.4	1101.4	1079.0	1027.7	934.9	838.8	742.8	675.6	624.3	617.9
75°	822.8	838.8	877.3	851.6	784.4	726.8	627.5	528.3	464.2	416.2	406.6
77.5°	525.1	550.7	550.7	547.5	499.5	445.0	381.0	310.6	262.5	227.3	217.7
80°	349.0	365.0	377.8	365.0	333.0	291.4	243.3	195.3	160.1	131.3	124.9
82.5°	256.1	275.3	284.9	272.1	240.1	208.1	172.9	137.7	102.5	80.0	73.6
85°	99.3	102.5	115.3	137.7	134.5	131.3	105.7	76.8	57.6	41.6	38.4
87.5°	25.6	22.4	25.6	25.6	22.4	19.2	19.2	19.2	19.2	9.6	12.8
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)