

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: P530294

Luminaire Tested: **GALN-SA5C-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530294  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26895 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

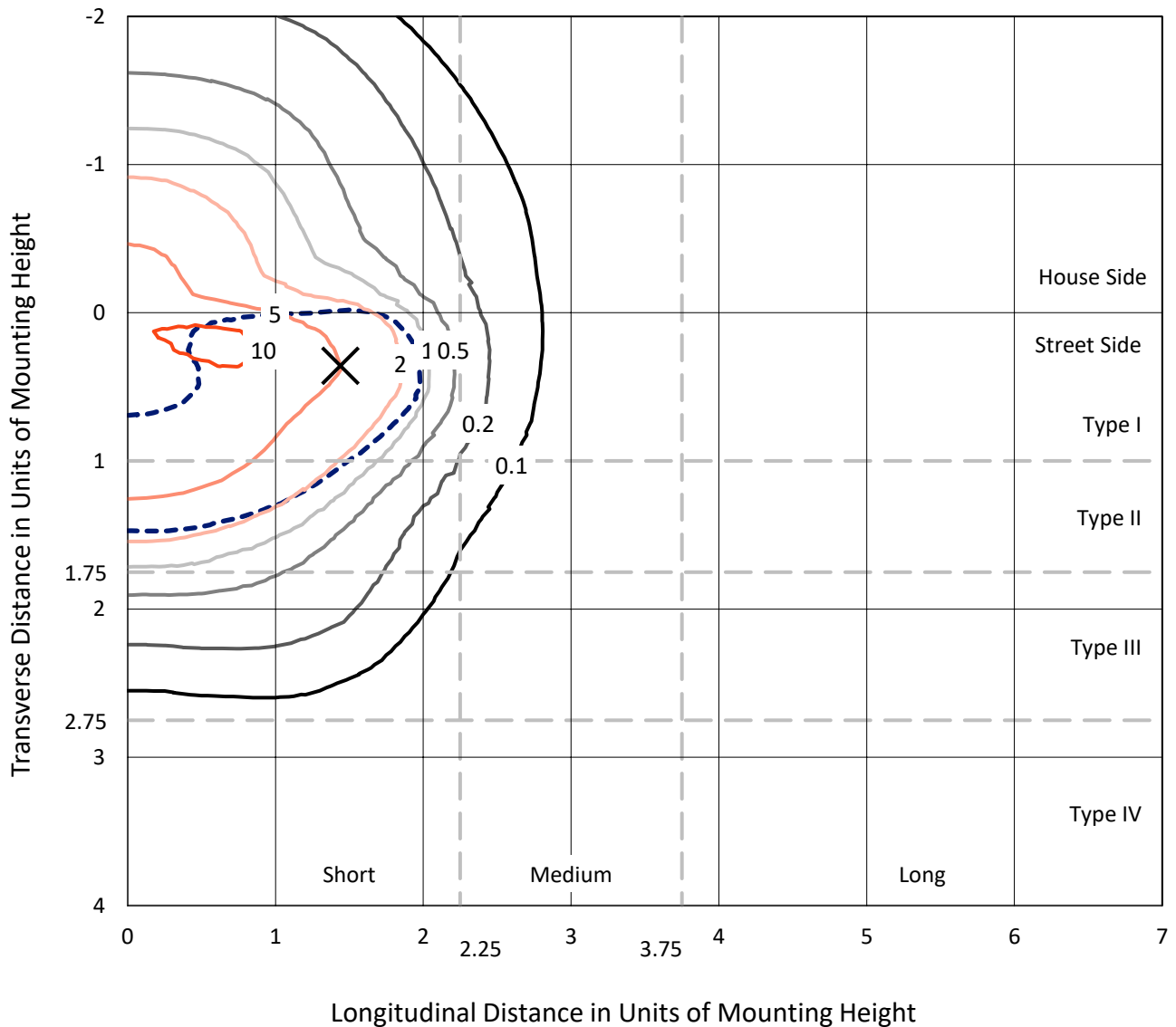
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

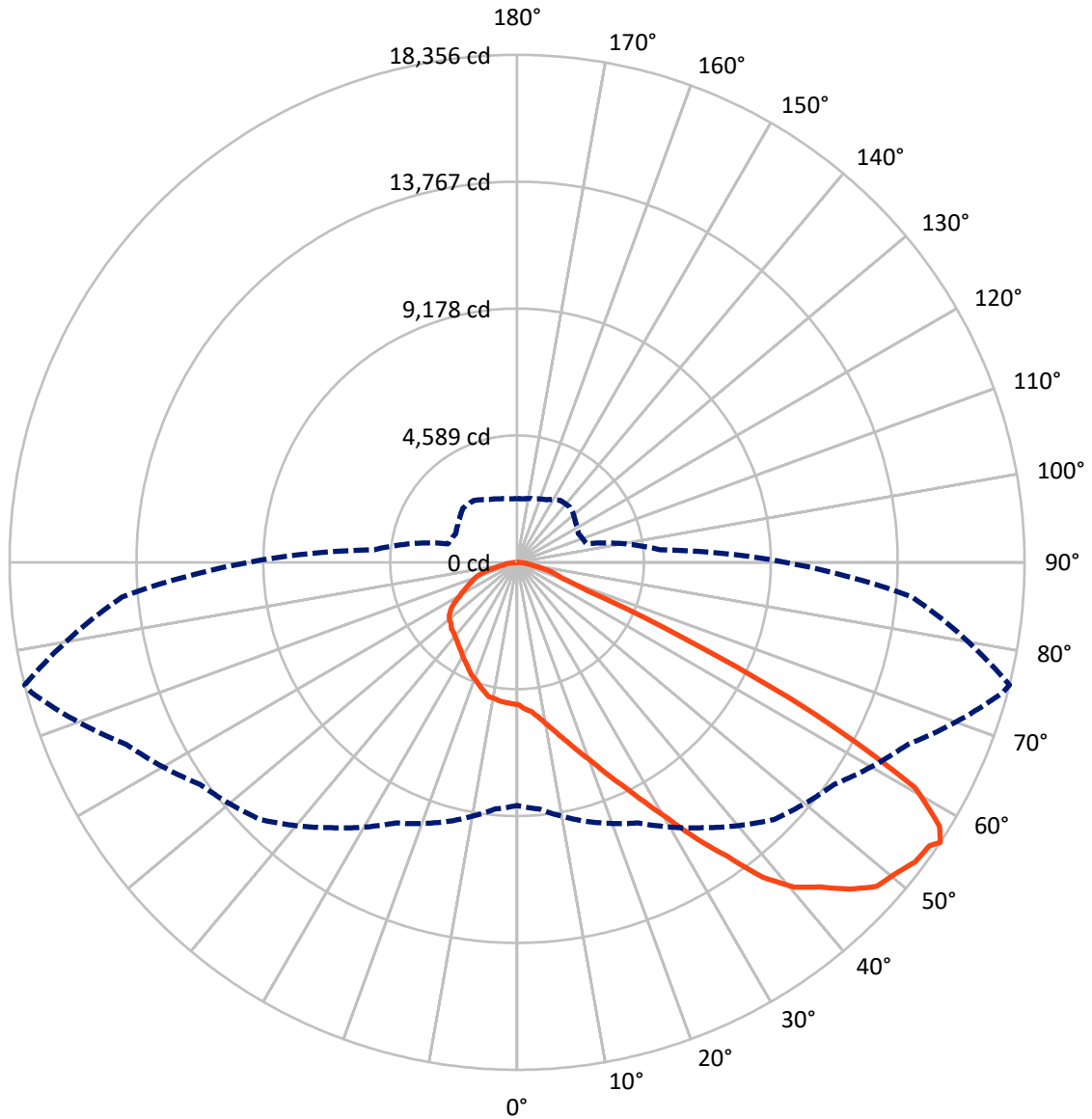
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	7231.3	0.0	7231.3
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	19663.7	0.0	19663.7
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	26895.0	0.0	26895.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.3	1.9
10°-20°	1603.1	6.0
20°-30°	2803.6	10.4
30°-40°	4389.7	16.3
40°-50°	6385.7	23.7
50°-60°	7018.3	26.1
60°-70°	3132.7	11.6
70°-80°	904.8	3.4
80°-90°	146.8	0.5
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°	26895.0	100.0
0°-180°	26895.0	100.0

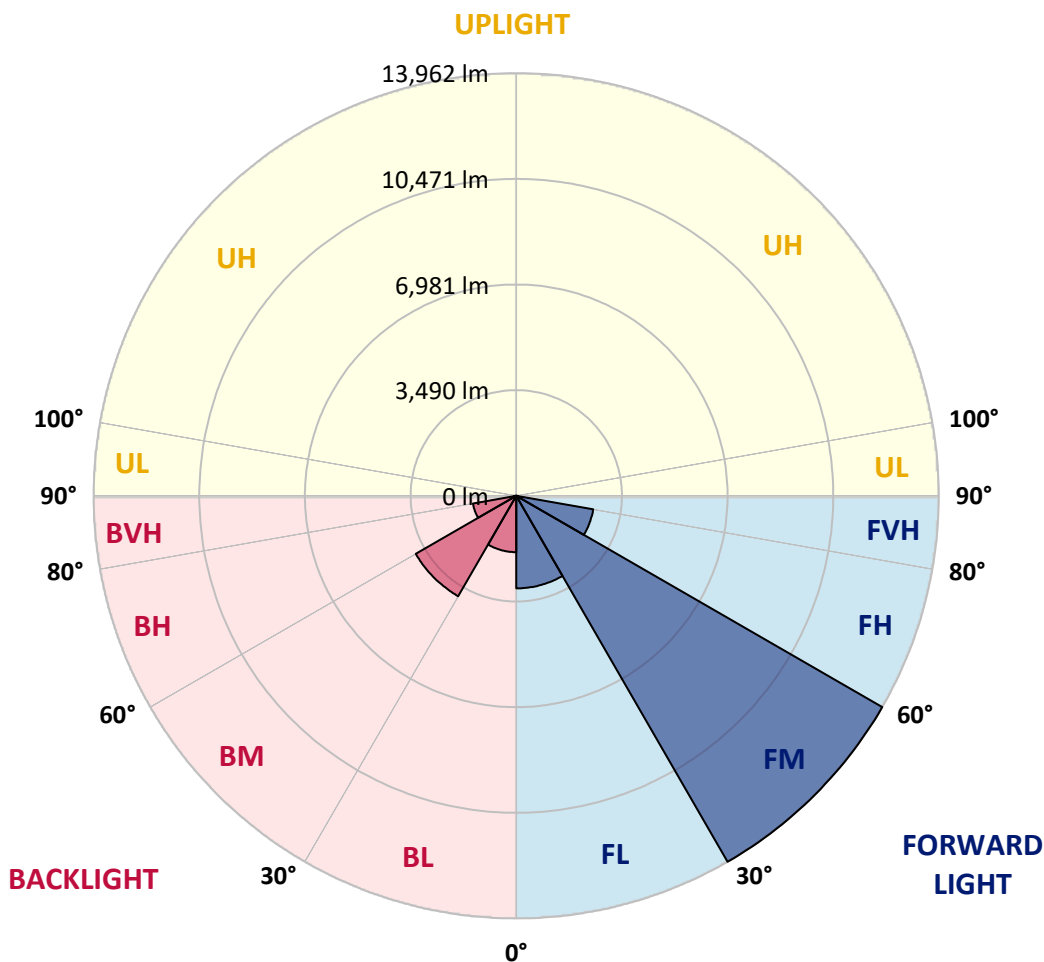


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3056.3	11.4			
FM (30°-60°)	13961.7	51.9			
FH (60°-80°)	2582.6	9.6			G2/5000
FVH (80°-90°)	63.2	0.2			G1/100
BL (0°-30°)	1860.7	6.9	B3/2500		
BM (30°-60°)	3832.0	14.2	B3/5000		
BH (60°-80°)	1454.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	83.6	0.3			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°	75°	76°	85°
0°	5146.0	5146.0	5146.0	5146.0	5146.0	5146.0	5146.0	5146.0	5146.0	5146.0	5146.0
2.5°	5669.0	5578.3	5571.4	5547.0	5560.9	5498.1	5431.9	5344.7	5254.1	5309.9	5177.4
5°	6066.4	5944.4	5993.2	5909.5	5920.0	5836.3	5700.4	5599.3	5487.7	5421.4	5327.3
7.5°	6205.9	6216.4	6251.2	6237.3	6167.5	6167.5	6076.9	5899.1	5703.8	5665.5	5508.6
10°	6394.2	6397.7	6359.3	6369.8	6467.4	6422.1	6341.9	6265.2	6014.1	5968.8	5689.9
12.5°	6460.4	6397.7	6460.4	6516.2	6631.2	6694.0	6676.6	6620.8	6352.3	6320.9	5913.0
15°	6470.9	6432.5	6484.8	6610.3	6711.4	6976.4	7108.9	7070.5	6714.9	6718.4	6164.1
17.5°	6422.1	6474.4	6495.3	6603.4	6836.9	7084.5	7468.0	7520.3	7227.4	7182.1	6481.3
20°	6488.3	6449.9	6477.8	6575.5	6885.8	7272.8	7774.8	8120.0	7708.6	7677.2	6809.1
22.5°	6742.8	6690.5	6683.5	6746.3	6969.4	7370.4	8099.0	8719.6	8294.3	8311.7	7217.0
25°	6941.5	6969.4	6945.0	6941.5	7081.0	7516.8	8527.9	9434.4	9089.2	8988.1	7698.1
27.5°	7283.2	7349.5	7300.6	7366.9	7335.5	7736.5	8834.7	10225.8	9946.9	9810.9	8133.9
30°	7757.4	7792.2	7746.9	7746.9	7652.8	8043.3	9113.6	11052.1	10937.0	10752.2	8646.4
32.5°	8381.4	8433.7	8343.1	8290.8	8276.9	8500.0	9615.7	11867.9	12063.1	11906.3	9326.3
35°	9207.7	9176.4	9068.3	9019.5	8831.2	9200.8	10361.8	12805.8	13318.3	13039.4	10149.1
37.5°	9936.4	9887.6	9880.6	9608.7	9654.0	9957.3	10996.3	13517.0	14535.0	14454.9	11017.2
40°	10616.3	10661.6	10734.8	10581.4	10511.7	10846.4	11735.4	14060.9	15479.9	15448.5	11686.6
42.5°	11344.9	11303.1	11432.1	11303.1	11198.5	11672.7	12537.3	14437.4	16309.7	16051.7	12387.4
45°	12401.3	12268.8	12314.2	12324.6	12247.9	12422.3	12868.5	14709.4	16891.9	16864.0	12899.9
47.5°	13283.4	13286.9	13210.2	13150.9	12917.3	13091.7	13238.1	14880.2	17561.3	17516.0	13098.6
50°	13611.1	13565.8	13788.9	13917.9	13931.9	13576.3	13527.5	14974.3	17913.4	17714.7	13297.4
52.5°	12432.7	12474.5	12826.7	13593.7	14036.5	14074.8	13865.6	15169.6	18056.4	18014.5	13457.7
55°	10006.1	10208.4	10787.1	11672.7	12722.1	13876.1	14231.7	15371.8	18133.1	18098.2	14169.0
56°	8796.3	8953.2	9706.3	10400.1	11718.0	13154.4	14001.6	15588.0	18192.3	18356.2	14336.3
57.5°	7081.0	7262.3	7802.7	8590.6	10145.6	11780.7	13367.1	15323.0	17962.2	18025.0	14458.3
60°	4427.8	4445.2	5093.7	5613.2	6707.9	8304.7	10201.4	13332.2	16623.4	16532.8	12987.1
62.5°	2904.2	2907.7	3496.9	3922.3	4420.8	4786.9	6003.7	8841.7	12265.4	12105.0	9246.1
65°	2039.6	2084.9	2541.6	3109.9	3312.1	3120.4	3082.0	4661.4	6850.9	6620.8	4968.2
67.5°	1492.2	1495.7	1900.1	2510.3	2803.1	2374.3	1928.0	2276.7	2712.5	2705.5	2301.1
70°	986.7	1028.5	1338.8	1875.7	2210.4	1907.1	1575.9	1628.2	1725.8	1725.8	1711.9
72.5°	575.3	613.6	819.3	1188.9	1241.2	1192.4	1248.2	1394.6	1457.3	1453.9	1436.4
75°	327.7	345.2	390.5	495.1	617.1	728.7	916.9	1056.4	1119.2	1157.5	1112.2
77.5°	191.8	202.2	230.1	282.4	320.8	394.0	498.6	596.2	679.9	669.4	676.4
80°	101.1	101.1	129.0	167.4	223.1	278.9	331.2	387.0	432.3	442.8	453.2
82.5°	59.3	62.8	83.7	122.0	160.4	198.7	254.5	292.9	334.7	338.2	345.2
85°	31.4	34.9	52.3	80.2	108.1	122.0	125.5	118.5	129.0	122.0	139.5
87.5°	10.5	10.5	17.4	13.9	13.9	17.4	20.9	20.9	27.9	27.9	27.9
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°	5146.0	5146.0	5146.0	5146.0	5146.0	5146.0	5146.0	5146.0	5146.0	5146.0	5146.0
2.5°	5173.9	5173.9	5114.6	5003.1	4985.6	4940.3	4898.5	4895.0	4863.6	4835.7	4821.8
5°	5271.5	5163.4	5076.3	4975.2	4856.6	4800.9	4738.1	4668.4	4640.5	4668.4	4664.9
7.5°	5383.1	5292.4	5031.0	4842.7	4706.7	4650.9	4581.2	4508.0	4515.0	4515.0	4466.2
10°	5491.2	5369.1	4950.8	4710.2	4511.5	4469.6	4431.3	4459.2	4494.0	4501.0	4469.6
12.5°	5672.5	5397.0	4912.4	4577.7	4452.2	4361.6	4386.0	4462.7	4535.9	4515.0	4539.4
15°	5808.4	5421.4	4738.1	4441.7	4284.9	4326.7	4413.9	4466.2	4588.2	4574.2	4598.6
17.5°	5940.9	5435.4	4567.3	4260.5	4194.2	4309.3	4375.5	4525.4	4563.8	4647.4	4678.8
20°	6212.9	5463.3	4392.9	4148.9	4128.0	4260.5	4375.5	4445.2	4528.9	4602.1	4602.1
22.5°	6352.3	5449.3	4277.9	4002.5	4068.7	4152.4	4257.0	4375.5	4375.5	4445.2	4448.7
25°	6526.7	5393.6	4096.6	3932.7	3981.5	4061.7	4180.3	4138.4	4183.8	4183.8	4239.5
27.5°	6725.4	5275.0	3939.7	3807.2	3904.8	3992.0	4009.4	3981.5	3929.2	3922.3	3901.3
30°	6885.8	5128.6	3824.6	3765.4	3845.6	3894.4	3838.6	3779.3	3688.7	3681.7	3632.9
32.5°	7105.4	4947.3	3681.7	3660.8	3751.4	3754.9	3737.5	3646.8	3514.4	3458.6	3402.8
35°	7475.0	4842.7	3573.6	3605.0	3632.9	3622.4	3591.1	3493.4	3360.9	3336.5	3315.6
37.5°	7746.9	4766.0	3462.1	3500.4	3524.8	3538.8	3444.6	3336.5	3340.0	3291.2	3277.3
40°	8053.7	4717.2	3371.4	3388.8	3392.3	3437.6	3322.6	3270.3	3294.7	3263.3	3284.2
42.5°	8447.7	4731.1	3277.3	3263.3	3329.6	3312.1	3256.4	3186.6	3200.6	3106.4	3120.4
45°	8656.9	4825.3	3221.5	3158.7	3231.9	3228.5	3155.2	3089.0	3005.3	2824.0	2831.0
47.5°	8796.3	4849.7	3089.0	3047.2	3123.9	3169.2	3085.5	2932.1	2813.6	2684.6	2653.2
50°	8939.3	4895.0	3026.2	2939.1	2970.5	3078.5	2973.9	2827.5	2712.5	2597.4	2614.8
52.5°	9064.8	4982.1	2904.2	2775.2	2831.0	2949.5	2893.8	2716.0	2590.4	2496.3	2468.4
55°	9622.6	5177.4	2698.5	2531.2	2663.7	2813.6	2782.2	2566.0	2430.1	2381.3	2374.3
56°	9709.8	5184.4	2590.4	2447.5	2569.5	2768.2	2729.9	2499.8	2377.8	2301.1	2304.5
57.5°	9723.7	5100.7	2437.0	2370.8	2475.4	2702.0	2653.2	2447.5	2280.1	2210.4	2189.5
60°	8555.8	3981.5	2245.3	2203.4	2325.5	2499.8	2482.4	2304.5	2116.3	2036.1	2074.4
62.5°	5832.8	2918.2	2095.4	2088.4	2151.1	2322.0	2276.7	2116.3	1959.4	1907.1	1882.7
65°	3395.8	2213.9	1948.9	1921.0	1973.3	2064.0	2095.4	1928.0	1764.1	1729.3	1718.8
67.5°	2004.7	1830.4	1760.7	1715.3	1697.9	1753.7	1778.1	1680.5	1516.6	1467.8	1509.6
70°	1677.0	1628.2	1631.7	1555.0	1513.1	1474.8	1453.9	1366.7	1230.7	1168.0	1150.5
72.5°	1446.9	1426.0	1412.0	1342.3	1303.9	1216.8	1126.1	1039.0	937.9	885.6	889.0
75°	1105.2	1098.2	1105.2	1070.3	1004.1	934.4	850.7	739.1	662.4	596.2	610.1
77.5°	658.9	679.9	690.3	676.4	648.5	585.7	533.4	460.2	387.0	334.7	327.7
80°	453.2	470.7	488.1	470.7	442.8	397.5	341.7	285.9	233.6	205.7	198.7
82.5°	345.2	362.6	373.1	355.6	320.8	271.9	233.6	195.2	153.4	125.5	118.5
85°	125.5	142.9	139.5	167.4	181.3	174.3	149.9	115.1	87.2	62.8	59.3
87.5°	34.9	31.4	34.9	34.9	34.9	31.4	27.9	27.9	27.9	17.4	13.9
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)