

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: P529754

Luminaire Tested: **GALN-SA4D-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4D-830-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21229 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

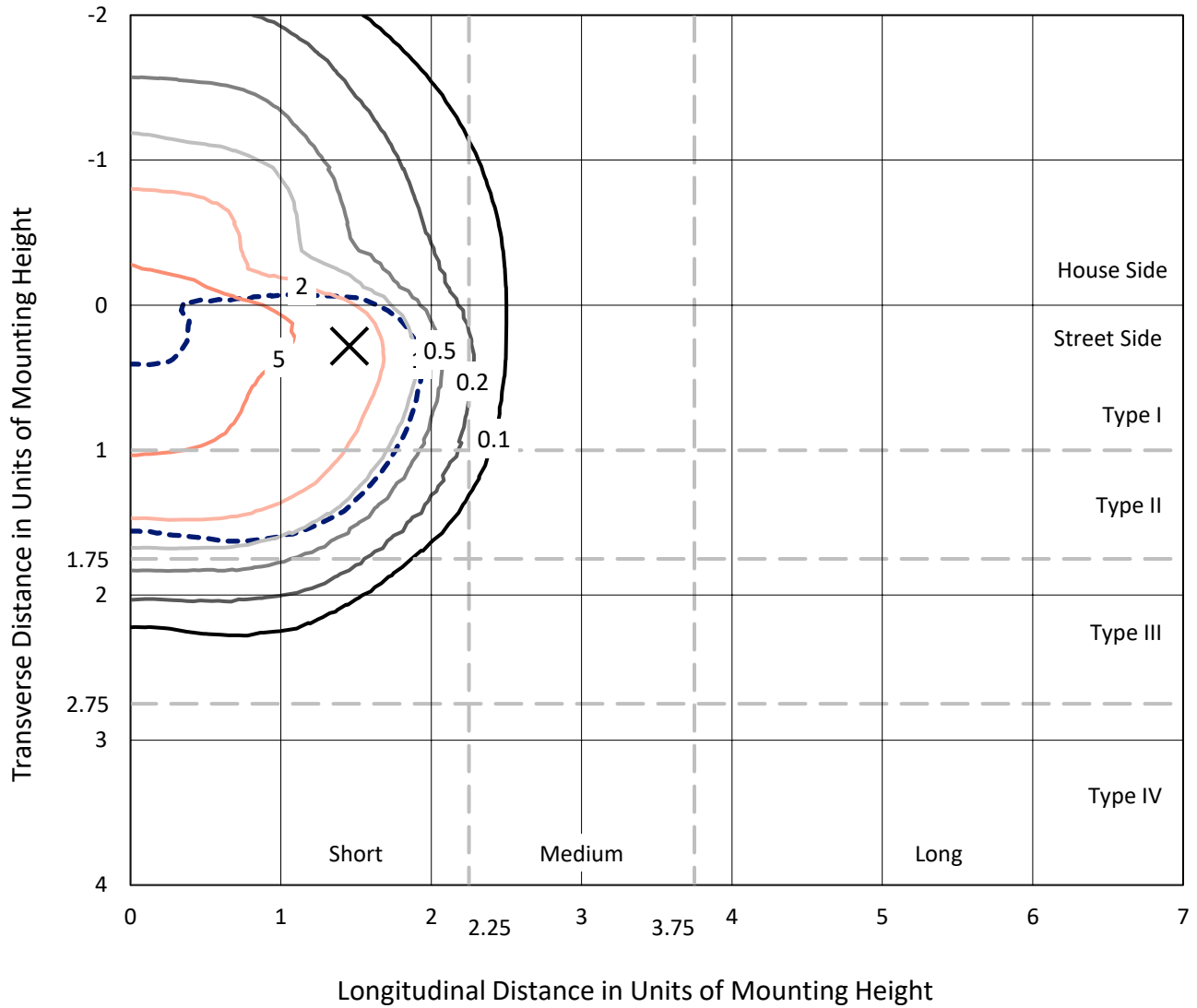
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

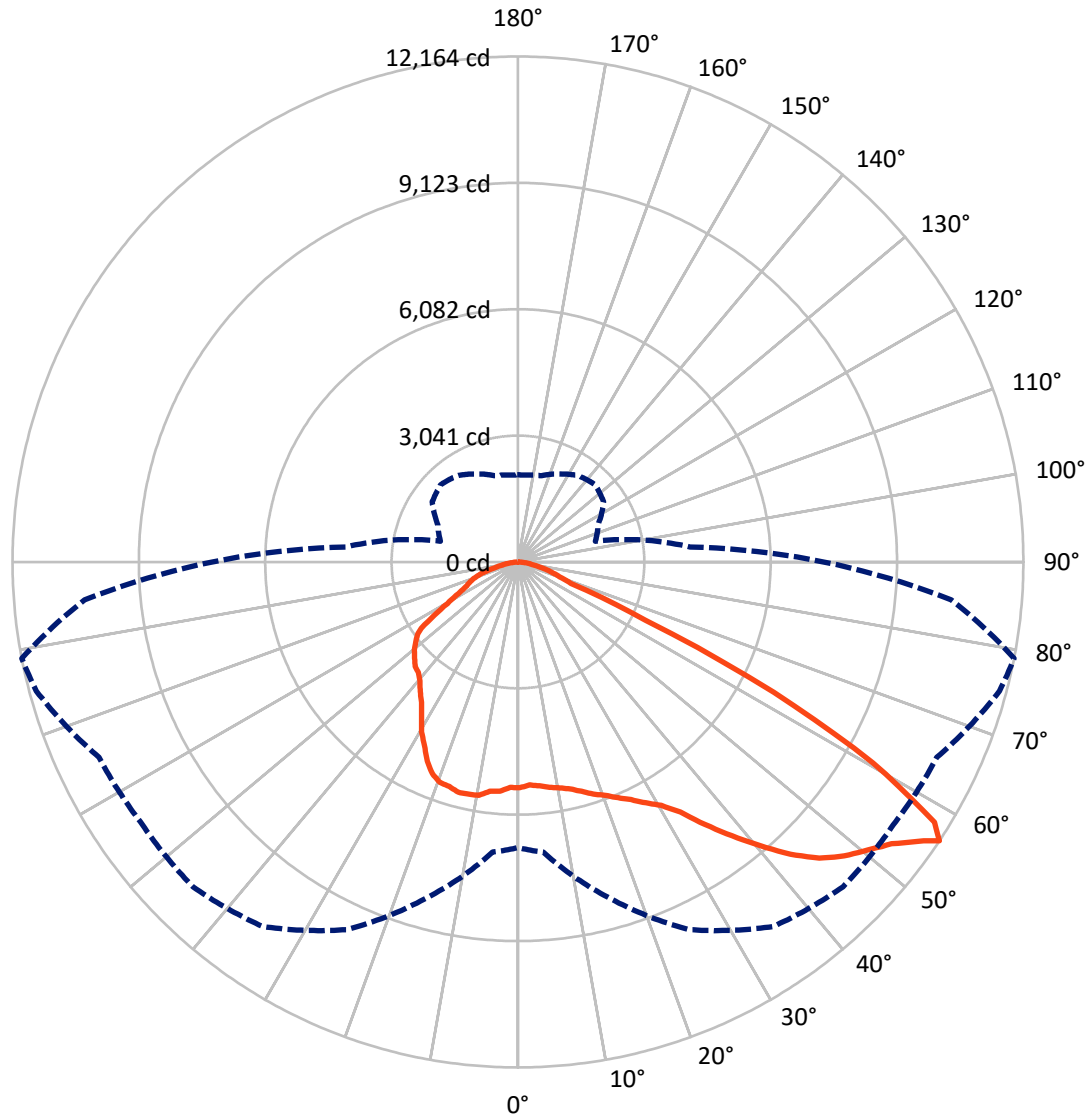
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6269.4	0.0	6269.4
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	14959.6	0.0	14959.6
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	21229.0	0.0	21229.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	493.8	2.3
10°-20°	1351.5	6.4
20°-30°	2312.2	10.9
30°-40°	3543.7	16.7
40°-50°	4789.3	22.6
50°-60°	5500.6	25.9
60°-70°	2507.3	11.8
70°-80°	618.2	2.9
80°-90°	112.4	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°	21229.0	100.0
0°-180°	21229.0	100.0

**Coefficient of Utilization**



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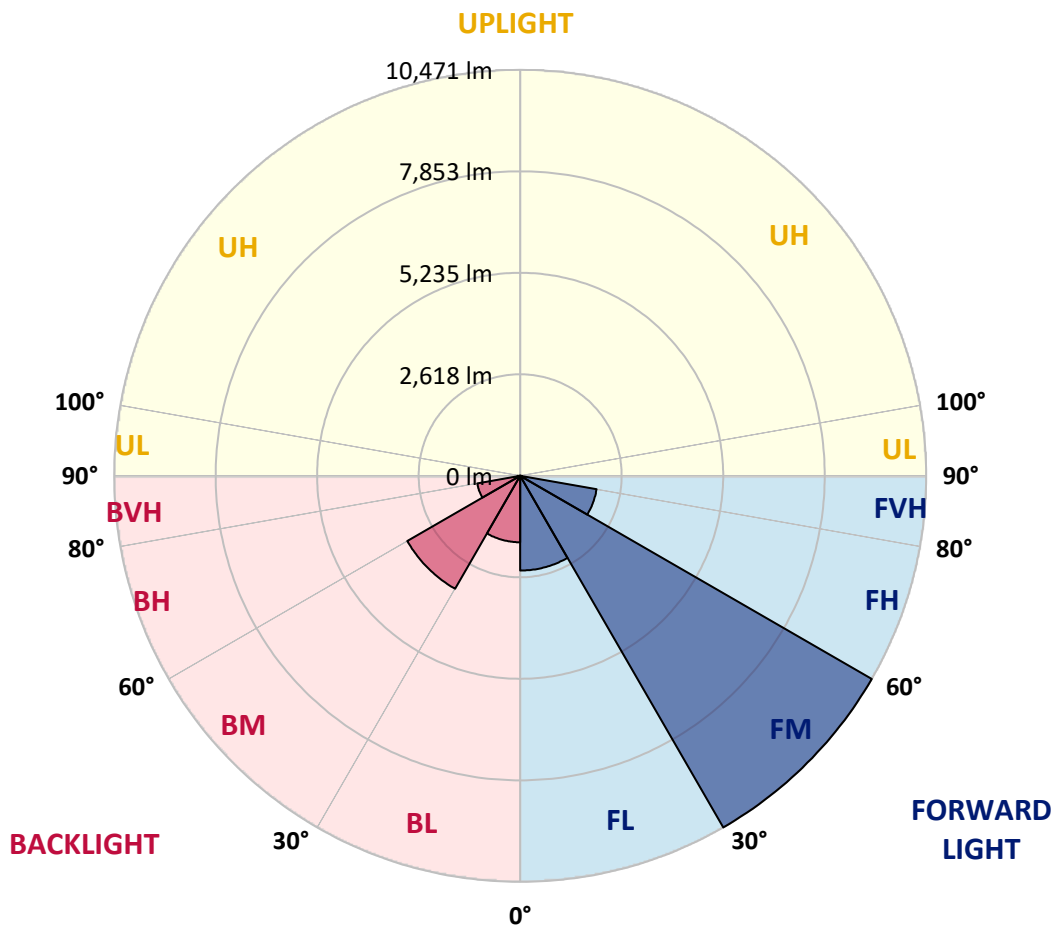
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2442.6	11.5			
FM (30°-60°)	10470.8	49.3			
FH (60°-80°)	2001.4	9.4			G2/5000
FVH (80°-90°)	44.9	0.2			G1/100
BL (0°-30°)	1714.9	8.1	B3/2500		
BM (30°-60°)	3362.8	15.8	B3/5000		
BH (60°-80°)	1124.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	67.5	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°	79°	85°
0°	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7
2.5°	5167.2	5154.0	5185.7	5209.5	5238.6	5275.6	5294.2	5304.7	5397.3	5373.5	5444.9
5°	5056.2	5021.8	5045.6	5064.1	5114.3	5159.3	5209.5	5288.9	5373.5	5410.5	5497.8
7.5°	4958.3	4939.8	4934.5	4947.7	5016.5	5074.7	5161.9	5278.3	5415.8	5476.6	5526.9
10°	4797.0	4770.6	4810.2	4897.5	4916.0	5037.6	5138.1	5304.7	5423.7	5529.5	5677.6
12.5°	4725.6	4699.2	4707.1	4757.3	4886.9	5003.3	5122.3	5310.0	5561.2	5603.5	5801.9
15°	4839.3	4812.9	4820.8	4807.6	4931.9	4992.7	5180.4	5415.8	5656.4	5727.8	5939.4
17.5°	5098.5	5101.1	5066.7	5037.6	5008.6	5138.1	5267.7	5479.3	5693.5	5873.3	6031.9
20°	5593.0	5505.7	5436.9	5273.0	5228.0	5283.6	5447.5	5651.1	5844.2	5992.3	6172.1
22.5°	5973.8	5981.7	5883.9	5614.1	5516.3	5540.1	5680.2	5846.8	6058.4	6164.2	6370.4
25°	6526.5	6470.9	6365.1	6150.9	5931.5	5950.0	6053.1	6203.8	6262.0	6336.1	6560.8
27.5°	7031.5	7047.4	6838.5	6637.5	6365.1	6312.3	6497.4	6523.8	6426.0	6566.1	6642.8
30°	7544.6	7531.3	7393.8	7158.5	6891.4	6902.0	6983.9	6854.4	6719.5	6796.2	6849.1
32.5°	8076.1	7925.4	7920.1	7708.5	7504.9	7407.1	7306.6	7370.0	7161.1	7177.0	7126.7
35°	8501.8	8523.0	8401.4	8250.6	8150.1	7978.2	7703.2	7816.9	7777.3	7758.8	7541.9
37.5°	8811.2	8729.3	8790.1	8739.8	8644.6	8430.4	8144.8	8253.3	8271.8	8361.7	8110.5
40°	9065.1	9030.7	9192.0	9218.5	9152.4	8689.6	8176.6	8499.2	8776.9	8972.6	8673.7
42.5°	9186.8	9260.8	9430.0	9633.7	9485.6	8991.1	8340.5	8687.0	9305.8	9615.1	9207.9
45°	9350.7	9255.5	9506.7	9879.6	9882.2	9244.9	8499.2	8940.8	9718.3	10167.8	9572.8
47.5°	9184.1	9231.7	9490.9	9964.2	10085.9	9512.0	8927.6	9300.5	10173.1	10572.4	9911.3
50°	8811.2	8906.4	9379.8	9871.7	10239.2	9795.0	9419.5	9689.2	10593.6	10897.7	9966.9
52.5°	8422.5	8475.4	9215.8	9943.1	10308.0	10159.9	10077.9	10226.0	11106.6	11265.3	10035.6
55°	7364.7	7616.0	8673.7	9911.3	10643.8	10818.4	10754.9	10971.7	11688.4	11847.0	10411.1
56°	6875.5	7007.7	8348.5	9763.2	10709.9	11059.0	11027.3	11125.1	11997.8	12164.4	10469.3
57.5°	5971.1	5981.7	7118.8	9107.4	10461.4	11130.4	11098.7	11175.4	11937.0	11823.2	9958.9
60°	3736.6	3900.5	4844.6	7005.1	8895.9	10326.5	10506.3	9890.2	10064.7	9824.1	7748.2
62.5°	1935.7	1911.9	2538.7	4096.2	5905.0	7393.8	7560.4	7531.3	7261.6	6909.9	5061.4
65°	965.2	970.5	1327.5	2028.3	3025.2	3871.4	4336.9	4387.1	3670.5	3376.9	2401.1
67.5°	700.8	727.2	954.6	1240.2	1425.3	1594.6	1954.2	1917.2	1451.8	1380.4	1279.9
70°	544.8	568.6	774.8	946.7	859.4	859.4	936.1	967.9	1034.0	1063.1	1097.4
72.5°	396.7	415.2	592.4	653.2	563.3	605.6	700.8	774.8	843.6	854.2	893.8
75°	272.4	288.2	388.7	359.6	338.5	417.8	513.0	581.8	632.0	658.5	682.3
77.5°	177.2	182.5	222.1	187.8	216.8	269.7	333.2	391.4	441.6	462.8	468.1
80°	79.3	87.3	95.2	119.0	150.7	193.0	238.0	285.6	317.3	325.3	341.1
82.5°	45.0	45.0	58.2	84.6	111.1	140.2	171.9	206.3	243.3	251.2	248.6
85°	23.8	23.8	34.4	50.2	68.8	82.0	79.3	82.0	87.3	100.5	97.8
87.5°	7.9	7.9	10.6	10.6	13.2	15.9	13.2	18.5	23.8	23.8	23.8
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°	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7
2.5°	5423.7	5447.5	5415.8	5484.5	5484.5	5471.3	5405.2	5426.4	5442.2	5442.2	5455.5
5°	5526.9	5518.9	5540.1	5458.1	5407.9	5389.3	5280.9	5228.0	5183.1	5180.4	5140.8
7.5°	5585.0	5563.9	5555.9	5495.1	5273.0	5138.1	4905.4	4770.6	4741.5	4638.3	4678.0
10°	5677.6	5717.3	5677.6	5347.0	5037.6	4728.2	4500.8	4291.9	4209.9	4143.8	4104.2
12.5°	5868.0	5849.5	5619.4	5172.5	4738.8	4371.2	4032.8	3813.3	3731.3	3673.1	3667.8
15°	6029.3	5936.7	5585.0	4897.5	4273.4	3882.0	3604.4	3448.3	3411.3	3416.6	3440.4
17.5°	6084.8	6021.4	5405.2	4611.9	3927.0	3466.8	3337.3	3313.5	3347.8	3387.5	3398.1
20°	6172.1	6071.6	5331.2	4223.2	3498.6	3207.7	3199.8	3284.4	3347.8	3406.0	3414.0
22.5°	6354.6	6100.7	5090.5	3855.6	3205.0	3131.0	3207.7	3279.1	3376.9	3424.5	3382.2
25°	6407.5	6037.2	4752.0	3414.0	3019.9	3083.4	3165.4	3263.2	3332.0	3358.4	3376.9
27.5°	6452.4	5939.4	4294.6	3120.4	2961.8	3080.8	3165.4	3247.4	3284.4	3308.2	3329.3
30°	6579.3	5910.3	3897.9	2924.7	2924.7	3027.9	3136.3	3157.5	3207.7	3236.8	3273.8
32.5°	6642.8	5709.3	3490.6	2800.5	2887.7	3054.3	3062.3	3101.9	3104.6	3128.4	3088.7
35°	6809.4	5566.5	3112.5	2710.5	2903.6	3027.9	3067.5	3043.7	2914.2	2850.7	2863.9
37.5°	6931.1	5495.1	2840.1	2700.0	2906.2	3057.0	3078.1	2898.3	2763.4	2657.7	2684.1
40°	7259.0	5317.9	2633.9	2681.5	2930.0	3088.7	3030.5	2834.8	2591.5	2483.1	2464.6
42.5°	7510.2	5191.0	2504.3	2660.3	2948.5	3133.7	3006.7	2707.9	2459.3	2358.8	2385.3
45°	7801.1	5161.9	2435.5	2665.6	2980.3	3157.5	2977.6	2610.1	2345.6	2305.9	2298.0
47.5°	7904.2	4953.0	2361.5	2620.6	2972.3	3149.5	2879.8	2536.0	2303.3	2308.6	2329.7
50°	7732.3	4738.8	2305.9	2528.1	2919.5	3078.1	2726.4	2438.2	2279.5	2345.6	2382.6
52.5°	7512.8	4519.3	2192.2	2403.8	2811.0	2967.1	2655.0	2432.9	2255.7	2234.5	2242.5
55°	7578.9	4339.5	2033.6	2234.5	2636.5	2760.8	2575.7	2382.6	2197.5	2118.2	2144.6
56°	7364.7	4154.4	1930.4	2128.8	2517.5	2628.6	2536.0	2337.7	2149.9	2097.0	2097.0
57.5°	6759.2	3533.0	1795.6	1959.5	2266.3	2398.5	2459.3	2311.2	2097.0	2004.5	2007.1
60°	4984.8	2512.2	1610.5	1726.8	1877.5	1983.3	2266.3	2237.2	1964.8	1901.3	1877.5
62.5°	3072.8	1835.2	1478.2	1523.2	1599.9	1687.1	1978.0	2025.6	1824.7	1755.9	1740.0
65°	1721.5	1404.2	1377.7	1396.3	1433.3	1478.2	1642.2	1748.0	1610.5	1504.7	1499.4
67.5°	1258.7	1256.1	1277.3	1293.1	1309.0	1309.0	1348.7	1391.0	1372.5	1287.8	1279.9
70°	1118.6	1126.5	1142.4	1145.0	1150.3	1131.8	1100.1	1086.9	1108.0	1055.1	1044.6
72.5°	922.9	949.4	967.9	970.5	941.4	917.6	875.3	830.4	814.5	803.9	801.3
75°	708.7	727.2	735.2	732.5	721.9	687.6	637.3	592.4	563.3	531.5	547.4
77.5°	478.6	505.1	518.3	518.3	502.4	449.6	425.8	391.4	362.3	327.9	333.2
80°	335.8	354.4	375.5	372.9	346.4	320.0	285.6	253.9	230.1	203.6	201.0
82.5°	251.2	261.8	272.4	267.1	248.6	222.1	198.3	169.2	142.8	124.3	124.3
85°	89.9	97.8	119.0	124.3	134.9	134.9	113.7	95.2	76.7	63.5	63.5
87.5°	26.4	26.4	29.1	29.1	26.4	29.1	23.8	26.4	29.1	18.5	18.5
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)