

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: P530430

Luminaire Tested: **GALN-SA5C-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530430
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-SA5C-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA 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: 22594 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

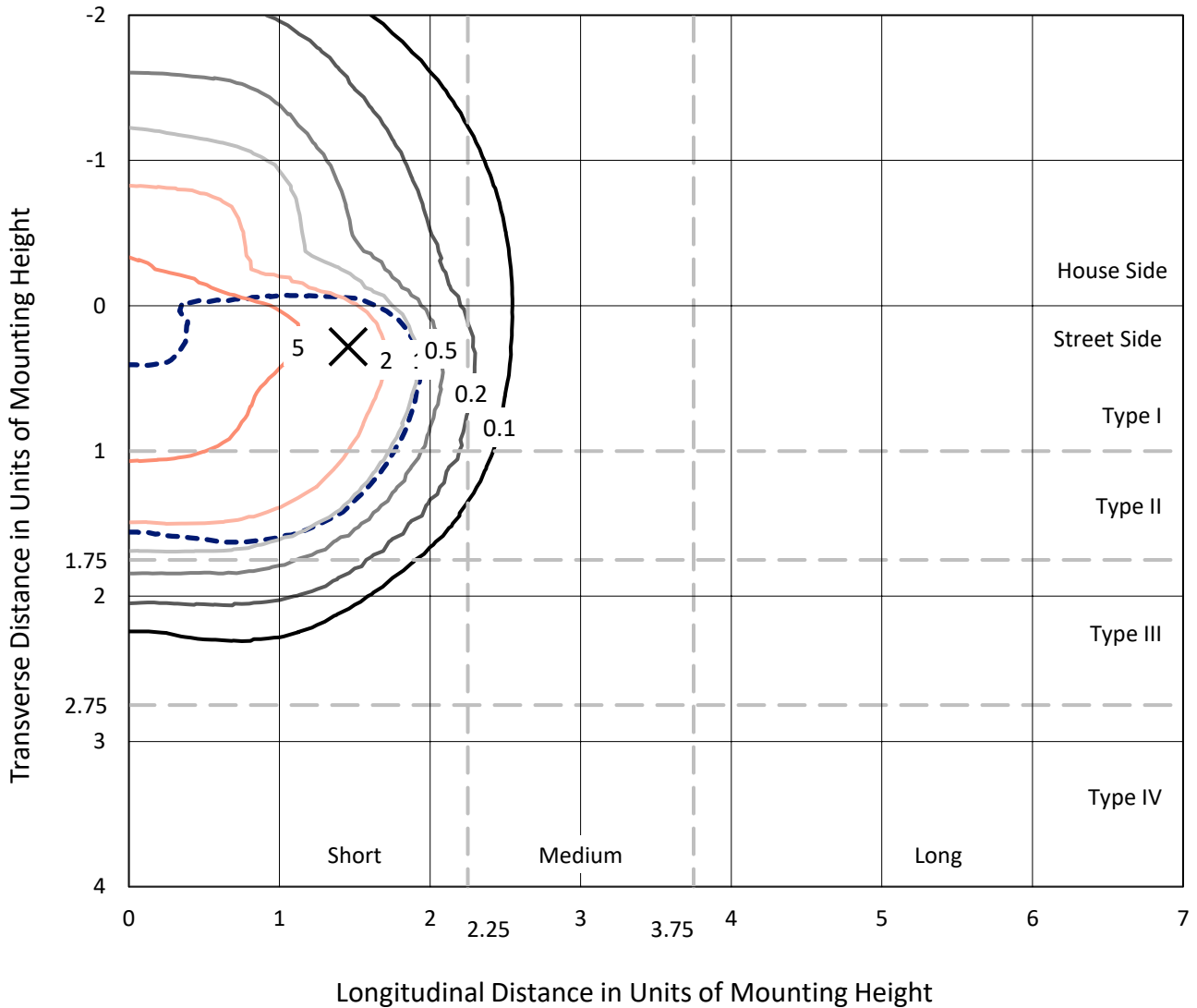
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

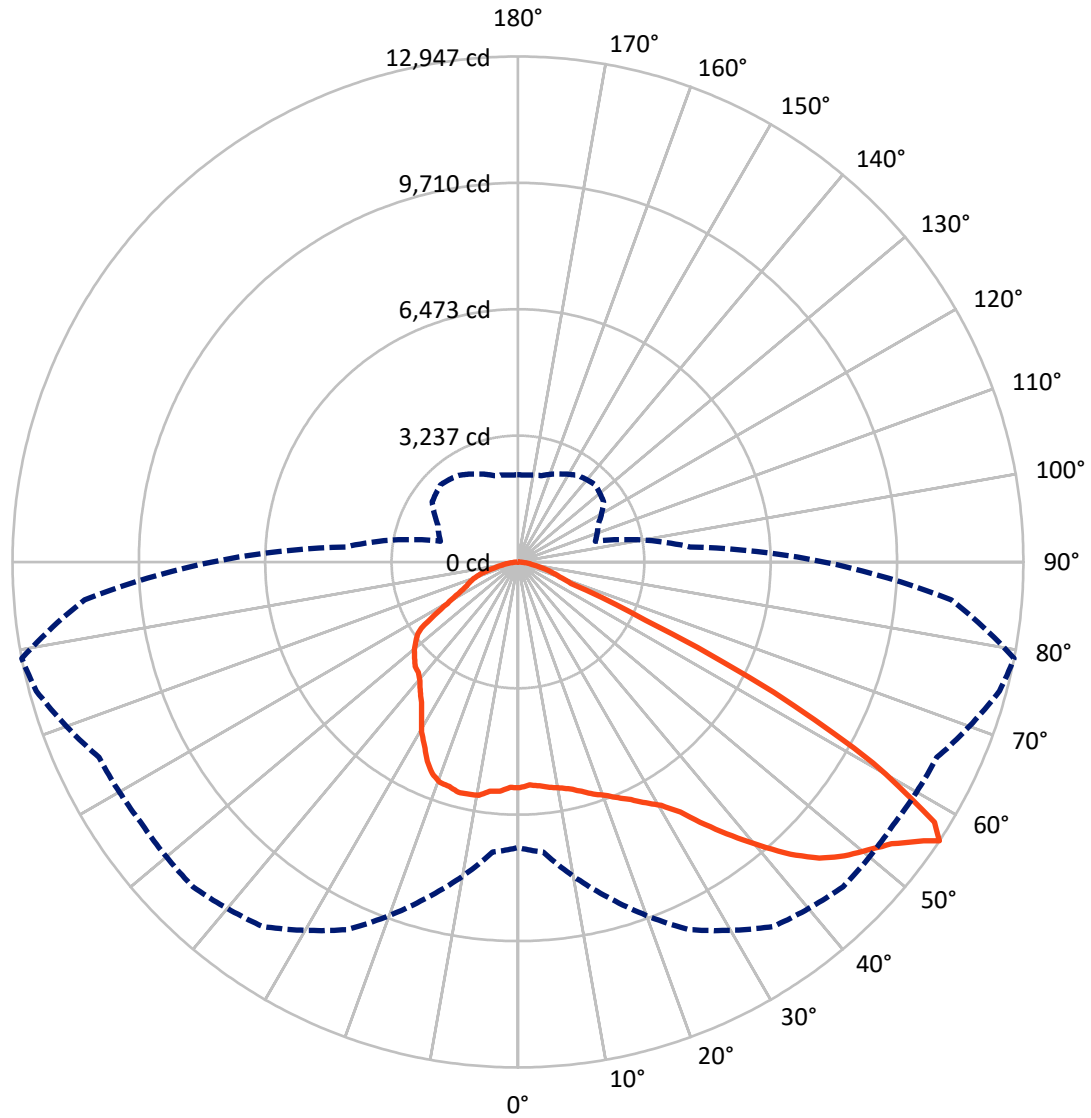
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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
House Side	Lumens	6672.5	0.0	6672.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	15921.5	0.0	15921.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	22594.0	0.0	22594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.6	2.3
10°-20°	1438.4	6.4
20°-30°	2460.8	10.9
30°-40°	3771.5	16.7
40°-50°	5097.2	22.6
50°-60°	5854.3	25.9
60°-70°	2668.6	11.8
70°-80°	657.9	2.9
80°-90°	119.6	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°	22594.0	100.0
0°-180°	22594.0	100.0

Coefficient of Utilization

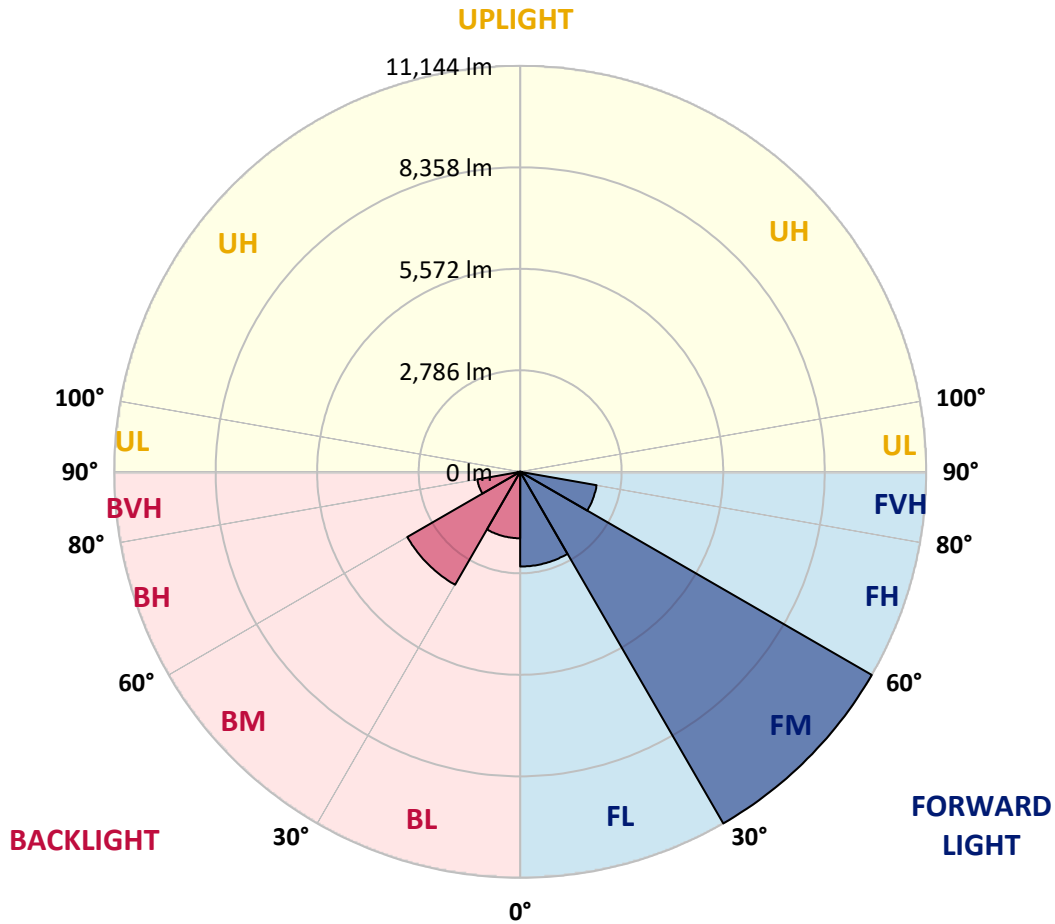


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2599.6	11.5			
FM (30°-60°)	11144.0	49.3			
FH (60°-80°)	2130.1	9.4			G2/5000
FVH (80°-90°)	47.7	0.2			G1/100
BL (0°-30°)	1825.2	8.1	B3/2500		
BM (30°-60°)	3579.0	15.8	B3/5000		
BH (60°-80°)	1196.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	71.8	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°	5780.9	5780.9	5780.9	5780.9	5780.9	5780.9	5780.9	5780.9	5780.9	5780.9	5780.9
2.5°	5499.5	5485.4	5519.2	5544.5	5575.5	5614.9	5634.6	5645.8	5744.3	5719.0	5795.0
5°	5381.3	5344.7	5370.0	5389.7	5443.2	5491.0	5544.5	5628.9	5719.0	5758.4	5851.3
7.5°	5277.1	5257.4	5251.8	5265.9	5339.0	5401.0	5493.8	5617.7	5764.0	5828.8	5882.2
10°	5105.4	5077.3	5119.5	5212.4	5232.1	5361.6	5468.5	5645.8	5772.5	5885.0	6042.7
12.5°	5029.4	5001.3	5009.7	5063.2	5201.1	5325.0	5451.6	5651.4	5918.8	5963.9	6174.9
15°	5150.5	5122.3	5130.8	5116.7	5249.0	5313.7	5513.5	5764.0	6020.1	6096.1	6321.3
17.5°	5426.3	5429.1	5392.5	5361.6	5330.6	5468.5	5606.4	5831.6	6059.5	6250.9	6419.8
20°	5952.6	5859.7	5786.5	5612.0	5564.2	5623.3	5797.8	6014.5	6220.0	6377.6	6569.0
22.5°	6357.9	6366.3	6262.2	5975.1	5871.0	5896.3	6045.5	6222.8	6447.9	6560.5	6780.0
25°	6946.1	6887.0	6774.4	6546.4	6312.8	6332.5	6442.3	6602.7	6664.7	6743.5	6982.7
27.5°	7483.7	7500.5	7278.2	7064.3	6774.4	6718.1	6915.1	6943.3	6839.1	6988.3	7069.9
30°	8029.7	8015.6	7869.2	7618.8	7334.5	7345.8	7433.0	7295.1	7151.6	7233.2	7289.5
32.5°	8595.4	8434.9	8429.3	8204.2	7987.4	7883.3	7776.4	7843.9	7621.6	7638.5	7585.0
35°	9048.5	9071.0	8941.6	8781.1	8674.2	8491.2	8198.5	8319.6	8277.3	8257.6	8026.9
37.5°	9377.8	9290.5	9355.3	9301.8	9200.5	8972.5	8668.6	8783.9	8803.6	8899.3	8632.0
40°	9648.0	9611.4	9783.1	9811.2	9740.9	9248.3	8702.3	9045.7	9341.2	9549.5	9231.4
42.5°	9777.4	9856.3	10036.4	10253.1	10095.5	9569.2	8876.8	9245.5	9904.1	10233.4	9800.0
45°	9951.9	9850.6	10118.0	10514.8	10517.7	9839.4	9045.7	9515.7	10343.2	10821.6	10188.4
47.5°	9774.6	9825.3	10101.1	10604.9	10734.4	10123.6	9501.6	9898.5	10827.2	11252.2	10548.6
50°	9377.8	9479.1	9982.9	10506.4	10897.6	10424.8	10025.1	10312.2	11274.7	11598.4	10607.7
52.5°	8964.1	9020.4	9808.4	10582.4	10970.8	10813.2	10725.9	10883.5	11820.8	11989.6	10680.9
55°	7838.3	8105.7	9231.4	10548.6	11328.2	11514.0	11446.4	11677.2	12439.9	12608.8	11080.5
56°	7317.6	7458.3	8885.3	10391.0	11398.6	11770.1	11736.3	11840.5	12769.2	12946.5	11142.5
57.5°	6355.1	6366.3	7576.5	9693.0	11134.0	11846.1	11812.3	11893.9	12704.5	12583.5	10599.3
60°	3976.8	4151.3	5156.1	7455.5	9467.9	10990.5	11181.9	10526.1	10711.9	10455.7	8246.4
62.5°	2060.2	2034.9	2701.9	4359.6	6284.7	7869.2	8046.6	8015.6	7728.5	7354.2	5386.9
65°	1027.3	1032.9	1412.9	2158.7	3219.7	4120.4	4615.7	4669.2	3906.5	3594.1	2555.5
67.5°	745.8	774.0	1016.0	1320.0	1517.0	1697.1	2079.9	2040.5	1545.1	1469.2	1362.2
70°	579.8	605.1	824.6	1007.6	914.7	914.7	996.3	1030.1	1100.5	1131.4	1168.0
72.5°	422.2	441.9	630.4	695.2	599.5	644.5	745.8	824.6	897.8	909.1	951.3
75°	289.9	306.8	413.7	382.8	360.3	444.7	546.0	619.2	672.7	700.8	726.1
77.5°	188.6	194.2	236.4	199.8	230.8	287.1	354.6	416.5	470.0	492.5	498.2
80°	84.4	92.9	101.3	126.7	160.4	205.5	253.3	304.0	337.7	346.2	363.1
82.5°	47.8	47.8	61.9	90.1	118.2	149.2	182.9	219.5	258.9	267.4	264.6
85°	25.3	25.3	36.6	53.5	73.2	87.2	84.4	87.2	92.9	106.9	104.1
87.5°	8.4	8.4	11.3	11.3	14.1	16.9	14.1	19.7	25.3	25.3	25.3
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°	5780.9	5780.9	5780.9	5780.9	5780.9	5780.9	5780.9	5780.9	5780.9	5780.9	5780.9
2.5°	5772.5	5797.8	5764.0	5837.2	5837.2	5823.1	5752.8	5775.3	5792.2	5792.2	5806.2
5°	5882.2	5873.8	5896.3	5809.1	5755.6	5735.9	5620.5	5564.2	5516.4	5513.5	5471.3
7.5°	5944.1	5921.6	5913.2	5848.5	5612.0	5468.5	5220.8	5077.3	5046.3	4936.6	4978.8
10°	6042.7	6084.9	6042.7	5690.8	5361.6	5032.3	4790.2	4567.9	4480.6	4410.3	4368.0
12.5°	6245.3	6225.6	5980.7	5505.1	5043.5	4652.3	4292.1	4058.5	3971.2	3909.3	3903.7
15°	6417.0	6318.5	5944.1	5212.4	4548.2	4131.6	3836.1	3670.1	3630.7	3636.3	3661.6
17.5°	6476.1	6408.5	5752.8	4908.4	4179.5	3689.8	3551.9	3526.5	3563.1	3605.3	3616.6
20°	6569.0	6462.0	5674.0	4494.7	3723.5	3413.9	3405.5	3495.6	3563.1	3625.0	3633.5
22.5°	6763.2	6493.0	5417.8	4103.5	3411.1	3332.3	3413.9	3489.9	3594.1	3644.7	3599.7
25°	6819.4	6425.4	5057.6	3633.5	3214.1	3281.7	3368.9	3473.0	3546.2	3574.4	3594.1
27.5°	6867.3	6321.3	4570.7	3321.1	3152.2	3278.9	3368.9	3456.2	3495.6	3520.9	3543.4
30°	7002.4	6290.3	4148.5	3112.8	3112.8	3222.6	3338.0	3360.5	3413.9	3444.9	3484.3
32.5°	7069.9	6076.4	3715.1	2980.5	3073.4	3250.7	3259.1	3301.4	3304.2	3329.5	3287.3
35°	7247.2	5924.4	3312.6	2884.8	3090.3	3222.6	3264.8	3239.4	3101.5	3034.0	3048.1
37.5°	7376.7	5848.5	3022.7	2873.6	3093.1	3253.5	3276.0	3084.7	2941.1	2828.5	2856.7
40°	7725.7	5659.9	2803.2	2853.9	3118.4	3287.3	3225.4	3017.1	2758.2	2642.8	2623.1
42.5°	7993.1	5524.8	2665.3	2831.4	3138.1	3335.1	3200.0	2882.0	2617.5	2510.5	2538.6
45°	8302.7	5493.8	2592.1	2837.0	3171.9	3360.5	3169.1	2777.9	2496.4	2454.2	2445.8
47.5°	8412.4	5271.5	2513.3	2789.1	3163.5	3352.0	3065.0	2699.1	2451.4	2457.0	2479.5
50°	8229.5	5043.5	2454.2	2690.6	3107.2	3276.0	2901.7	2594.9	2426.1	2496.4	2535.8
52.5°	7995.9	4809.9	2333.2	2558.3	2991.8	3157.8	2825.7	2589.3	2400.7	2378.2	2386.7
55°	8066.3	4618.5	2164.3	2378.2	2806.0	2938.3	2741.3	2535.8	2338.8	2254.4	2282.5
56°	7838.3	4421.5	2054.6	2265.6	2679.4	2797.6	2699.1	2488.0	2288.2	2231.9	2231.9
57.5°	7193.8	3760.1	1911.0	2085.5	2412.0	2552.7	2617.5	2459.8	2231.9	2133.4	2136.2
60°	5305.3	2673.7	1714.0	1837.8	1998.3	2110.8	2412.0	2381.0	2091.1	2023.6	1998.3
62.5°	3270.4	1953.2	1573.3	1621.1	1702.8	1795.6	2105.2	2155.9	1942.0	1868.8	1851.9
65°	1832.2	1494.5	1466.3	1486.0	1525.4	1573.3	1747.8	1860.4	1714.0	1601.4	1595.8
67.5°	1339.7	1336.9	1359.4	1376.3	1393.2	1393.2	1435.4	1480.4	1460.7	1370.6	1362.2
70°	1190.5	1199.0	1215.8	1218.7	1224.3	1204.6	1170.8	1156.7	1179.3	1123.0	1111.7
72.5°	982.2	1010.4	1030.1	1032.9	1001.9	976.6	931.6	883.7	866.9	855.6	852.8
75°	754.3	774.0	782.4	779.6	768.3	731.8	678.3	630.4	599.5	565.7	582.6
77.5°	509.4	537.6	551.6	551.6	534.7	478.5	453.1	416.5	385.6	349.0	354.6
80°	357.4	377.1	399.7	396.8	368.7	340.6	304.0	270.2	244.9	216.7	213.9
82.5°	267.4	278.6	289.9	284.3	264.6	236.4	211.1	180.1	152.0	132.3	132.3
85°	95.7	104.1	126.7	132.3	143.5	143.5	121.0	101.3	81.6	67.5	67.5
87.5°	28.1	28.1	31.0	31.0	28.1	31.0	25.3	28.1	31.0	19.7	19.7
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)