

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: P530660

Luminaire Tested: **GALN-SA5D-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530660
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-SA5D-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA 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: 25026 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

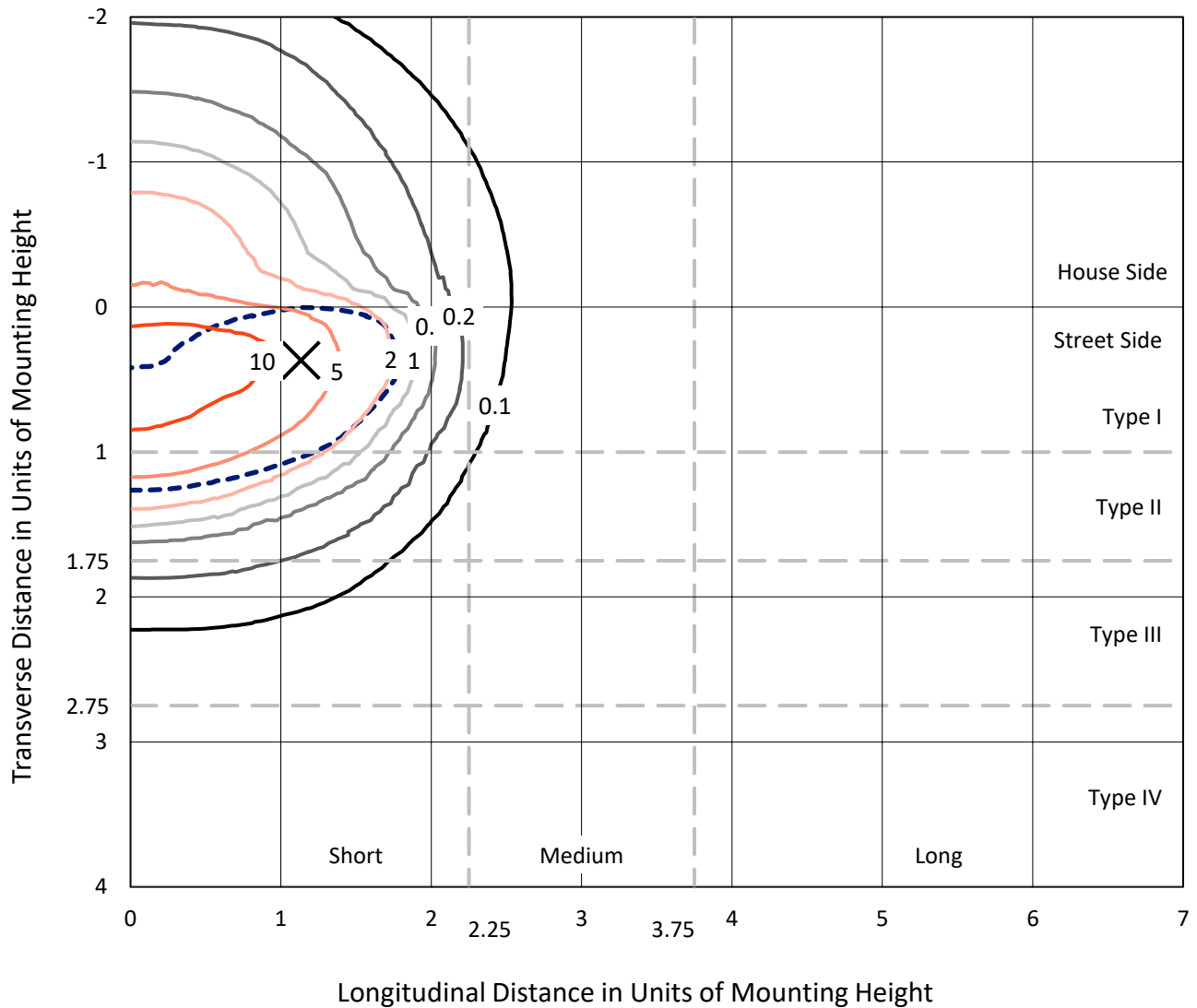
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

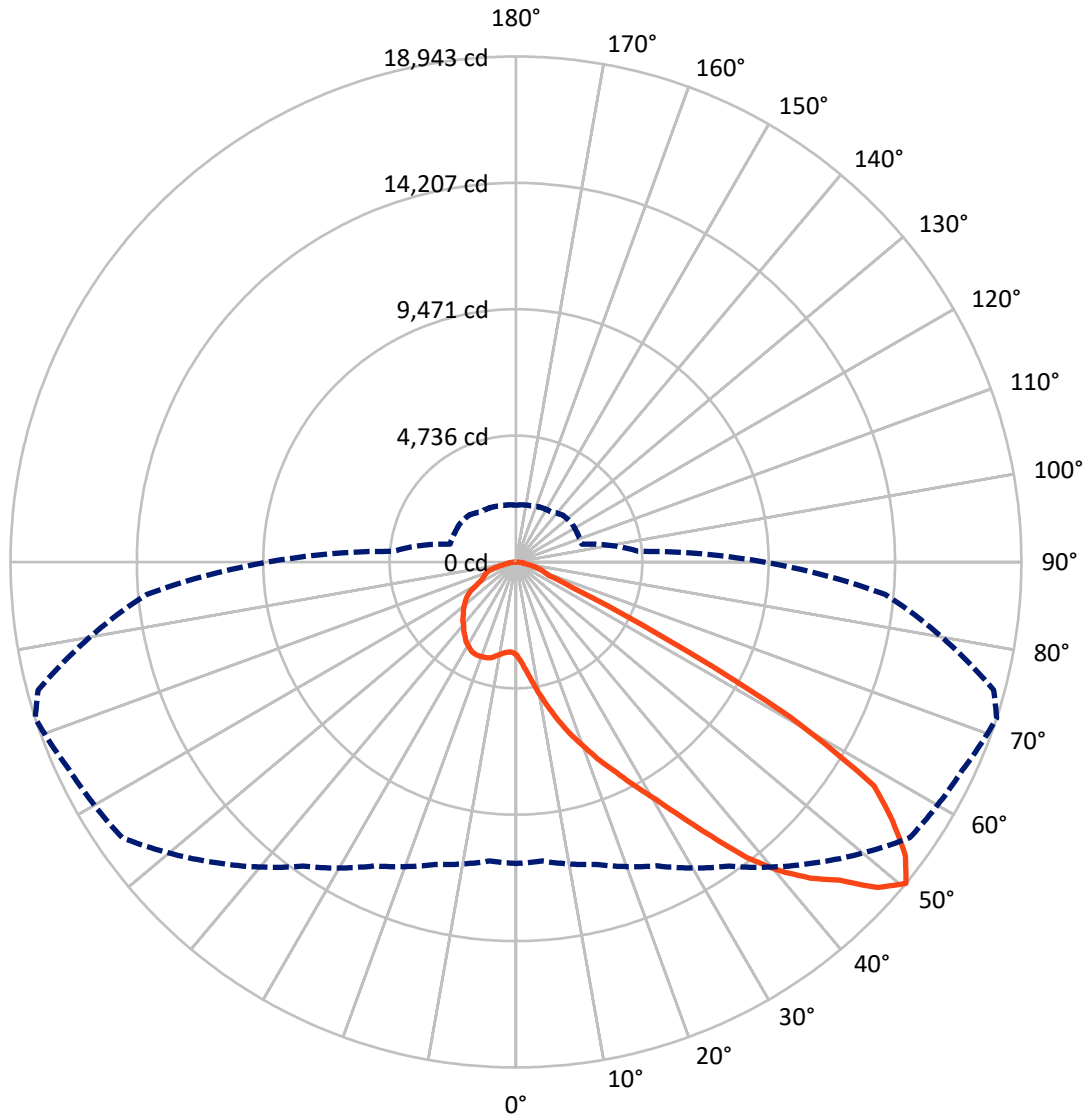
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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
House Side	Lumens	5733.6	0.0	5733.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	19292.4	0.0	19292.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	25026.0	0.0	25026.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.8	1.6
10°-20°	1531.9	6.1
20°-30°	2970.3	11.9
30°-40°	4920.7	19.7
40°-50°	6885.2	27.5
50°-60°	5808.5	23.2
60°-70°	1770.4	7.1
70°-80°	621.1	2.5
80°-90°	108.0	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°	25026.0	100.0
0°-180°	25026.0	100.0

Coefficient of Utilization



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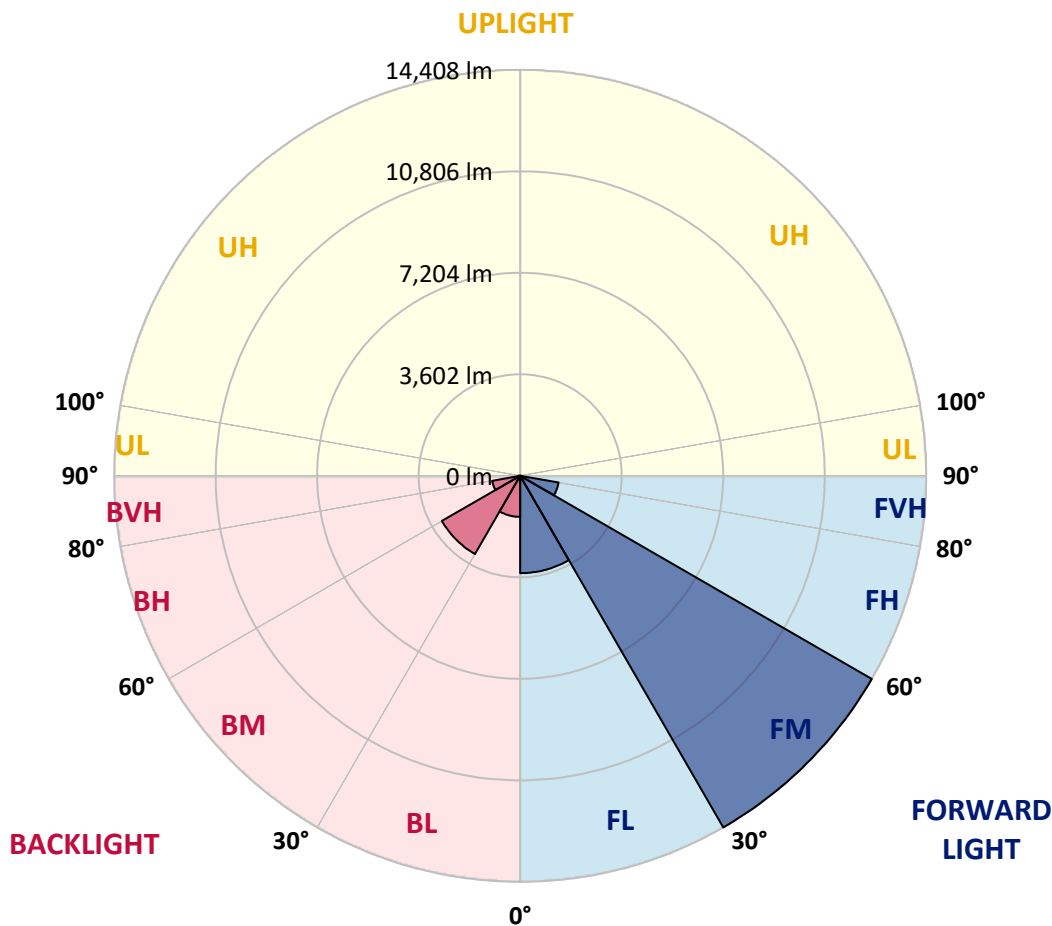
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3454.5	13.8			
FM (30°-60°)	14408.1	57.6			
FH (60°-80°)	1381.4	5.5			G1/1800
FVH (80°-90°)	48.4	0.2			G1/100
BL (0°-30°)	1457.5	5.8	B3/2500		
BM (30°-60°)	3206.3	12.8	B3/5000		
BH (60°-80°)	1010.2	4.0	B3/2500		G3/2500
BVH (80°-90°)	59.6	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°	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8
2.5°	4481.0	4453.1	4369.5	4341.6	4242.5	4062.9	4001.0	3818.3	3740.9	3669.6	3586.0
5°	5667.0	5537.0	5527.7	5369.7	5140.6	5007.4	4611.0	4344.7	4100.1	3976.2	3747.1
7.5°	6422.6	6425.7	6425.7	6295.7	6113.0	5775.4	5419.3	4939.3	4570.8	4388.1	3997.9
10°	7141.1	7079.1	7045.1	7032.7	6908.8	6580.6	6199.7	5605.1	5100.3	4886.7	4186.8
12.5°	7648.9	7596.3	7673.7	7633.5	7543.7	7330.0	6970.8	6292.6	5660.8	5372.8	4490.3
15°	7890.5	7927.7	7989.6	8101.1	8060.8	7980.3	7583.9	6998.6	6264.7	5939.5	4759.7
17.5°	8262.1	8159.9	8234.2	8373.6	8485.1	8447.9	8221.8	7509.6	6862.4	6462.9	5122.0
20°	8522.2	8463.4	8500.6	8661.6	8745.2	8955.8	8838.1	8178.5	7435.3	7014.1	5549.4
22.5°	9265.4	9178.7	9058.0	9082.7	9113.7	9262.3	9290.2	8912.4	8101.1	7655.1	5955.0
25°	10182.1	10101.6	9959.1	9813.6	9723.8	9695.9	9791.9	9488.4	8739.0	8277.6	6391.7
27.5°	11191.6	11055.4	10965.6	10665.2	10423.6	10386.5	10340.0	10175.9	9494.6	8996.0	6884.1
30°	12173.3	12064.9	11944.1	11464.1	11213.3	11173.0	10943.9	10990.3	10315.2	9760.9	7441.5
32.5°	12916.5	12925.8	12650.2	12287.9	12052.5	11838.8	11755.2	11888.4	11368.1	10922.2	8063.9
35°	13517.3	13545.1	13281.9	12953.7	12699.7	12848.4	12811.2	12873.1	12625.4	12080.4	8788.5
37.5°	14102.6	13963.2	13681.4	13523.5	13390.3	13634.9	13950.8	14003.5	14049.9	13408.9	9630.9
40°	14198.6	14210.9	14046.8	14158.3	13991.1	14359.6	15093.5	15025.4	15214.3	14653.8	10544.4
42.5°	14062.3	14090.2	14155.2	14313.1	14715.7	15158.5	16248.6	15969.9	16199.0	15700.5	11433.2
45°	13839.3	13724.8	13805.3	14406.0	15102.8	16087.6	17304.6	17087.8	17013.5	16595.4	12492.2
47.5°	12774.1	12891.7	13142.6	13882.7	14929.4	16248.6	18054.0	18004.4	18227.4	17933.2	13455.3
50°	11296.9	11250.5	11733.5	12566.6	13916.8	15932.7	18013.7	18462.8	18942.8	18534.0	13885.8
52.5°	8460.3	8708.0	9123.0	10157.3	12083.5	14210.9	17134.3	17883.7	18273.9	18187.2	13538.9
55°	5348.1	5422.4	5673.2	6902.6	8636.8	11405.3	14687.8	16425.1	17121.9	17447.0	13220.0
57.5°	2598.2	2458.8	2765.4	3753.2	4988.8	7670.6	11327.9	14306.9	15821.2	16409.6	12526.3
60°	1356.4	1409.0	1529.8	1882.8	2579.6	3982.4	7060.6	9534.9	11848.1	12752.4	9494.6
62.5°	1124.1	1142.7	1223.2	1399.7	1715.6	2291.6	3604.6	4648.2	6041.7	6856.2	5400.7
65°	953.8	963.1	1049.8	1167.5	1368.8	1613.4	1854.9	1941.7	2350.4	2412.4	1920.0
67.5°	795.9	805.2	898.1	1009.5	1139.6	1204.6	1266.6	1260.4	1306.8	1288.2	1285.1
70°	613.2	622.4	718.4	836.1	901.2	864.0	1056.0	1099.3	1117.9	1133.4	1158.2
72.5°	442.8	461.4	535.7	619.3	585.3	672.0	870.2	935.2	960.0	969.3	1000.2
75°	322.1	328.3	346.8	322.1	371.6	467.6	613.2	693.7	724.6	733.9	780.4
77.5°	142.5	145.5	148.6	185.8	238.4	291.1	365.4	430.4	473.8	486.2	498.6
80°	74.3	77.4	96.0	127.0	170.3	213.7	266.3	303.5	331.4	334.4	346.8
82.5°	46.5	49.5	68.1	89.8	120.8	157.9	195.1	226.1	247.7	250.8	253.9
85°	21.7	27.9	40.3	55.7	80.5	102.2	105.3	89.8	96.0	99.1	92.9
87.5°	6.2	9.3	12.4	9.3	12.4	12.4	15.5	18.6	18.6	18.6	21.7
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°	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8	3483.8
2.5°	3539.6	3511.7	3403.3	3363.1	3257.8	3276.4	3220.6	3217.5	3205.1	3202.0	3198.9
5°	3626.3	3539.6	3409.5	3310.4	3251.6	3245.4	3205.1	3205.1	3217.5	3226.8	3205.1
7.5°	3768.7	3669.6	3449.8	3356.9	3304.2	3294.9	3267.1	3245.4	3273.3	3264.0	3239.2
10°	3932.9	3759.4	3527.2	3446.7	3360.0	3338.3	3338.3	3347.6	3301.1	3316.6	3291.8
12.5°	4115.6	3883.3	3626.3	3533.4	3431.2	3418.8	3412.6	3344.5	3369.3	3356.9	3294.9
15°	4347.8	4025.8	3753.2	3595.3	3508.6	3452.9	3372.3	3360.0	3344.5	3313.5	3285.6
17.5°	4598.7	4180.6	3812.1	3613.9	3483.8	3443.6	3381.6	3316.6	3270.2	3276.4	3254.7
20°	4812.3	4323.0	3833.8	3632.5	3465.3	3387.8	3291.8	3251.6	3202.0	3198.9	3195.8
22.5°	5066.3	4515.0	3864.7	3582.9	3409.5	3329.0	3264.0	3192.7	3158.7	3115.3	3137.0
25°	5369.7	4589.4	3870.9	3555.1	3369.3	3226.8	3192.7	3115.3	3102.9	3041.0	3053.4
27.5°	5589.6	4629.6	3821.4	3468.3	3276.4	3168.0	3106.0	3050.3	3028.6	2982.2	2969.8
30°	5883.8	4691.6	3716.1	3360.0	3183.4	3062.7	3025.5	3013.1	2951.2	2901.6	2895.5
32.5°	6218.3	4731.8	3648.0	3248.5	3087.4	2994.5	3013.1	2954.3	2876.9	2833.5	2821.1
35°	6484.6	4747.3	3477.6	3121.5	3022.4	2963.6	2941.9	2929.5	2818.0	2777.8	2746.8
37.5°	6890.2	4713.2	3335.2	3031.7	2951.2	2929.5	2910.9	2827.3	2700.4	2641.5	2598.2
40°	7364.0	4703.9	3152.5	2904.7	2883.1	2907.8	2852.1	2722.0	2545.5	2480.5	2449.5
42.5°	7819.3	4769.0	3037.9	2836.6	2808.7	2818.0	2740.6	2545.5	2458.8	2421.7	2372.1
45°	8581.1	4905.2	2849.0	2731.3	2718.9	2712.7	2619.8	2415.5	2365.9	2319.5	2310.2
47.5°	9268.5	4815.4	2728.2	2622.9	2635.3	2601.3	2403.1	2338.0	2282.3	2235.8	2220.4
50°	9308.8	4601.8	2557.9	2539.3	2542.4	2483.6	2294.7	2251.3	2180.1	2149.1	2127.5
52.5°	9098.2	4251.8	2400.0	2406.2	2415.5	2319.5	2161.5	2130.6	2071.7	2028.4	2016.0
55°	8506.7	3706.8	2245.1	2269.9	2294.7	2112.0	2062.4	1985.0	1938.6	1876.6	1879.7
57.5°	7494.1	2985.3	2028.4	2068.6	2121.3	1920.0	1882.8	1786.8	1718.7	1669.1	1662.9
60°	5022.9	2124.4	1703.2	1718.7	1836.4	1755.9	1752.8	1656.8	1563.9	1520.5	1495.7
62.5°	2963.6	1622.7	1471.0	1455.5	1452.4	1498.8	1576.2	1542.2	1421.4	1337.8	1362.6
65°	1551.5	1402.8	1368.8	1316.1	1285.1	1272.8	1331.6	1347.1	1266.6	1176.8	1170.6
67.5°	1303.7	1303.7	1275.9	1257.3	1213.9	1161.3	1124.1	1074.6	1062.2	1037.4	1006.4
70°	1186.1	1217.0	1207.7	1164.4	1127.2	1068.4	972.4	891.9	814.4	786.6	805.2
72.5°	1034.3	1065.3	1065.3	1043.6	994.1	904.2	811.3	718.4	653.4	603.9	597.7
75°	795.9	811.3	848.5	823.7	758.7	703.0	607.0	511.0	449.0	402.6	393.3
77.5°	507.9	532.6	532.6	529.5	483.1	430.4	368.5	300.4	253.9	219.9	210.6
80°	337.5	353.0	365.4	353.0	322.1	281.8	235.4	188.9	154.8	127.0	120.8
82.5°	247.7	266.3	275.6	263.2	232.3	201.3	167.2	133.2	99.1	77.4	71.2
85°	96.0	99.1	111.5	133.2	130.1	127.0	102.2	74.3	55.7	40.3	37.2
87.5°	24.8	21.7	24.8	24.8	21.7	18.6	18.6	18.6	18.6	9.3	12.4
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)