

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: P531198

Luminaire Tested: **GALN-SA6C-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29496 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

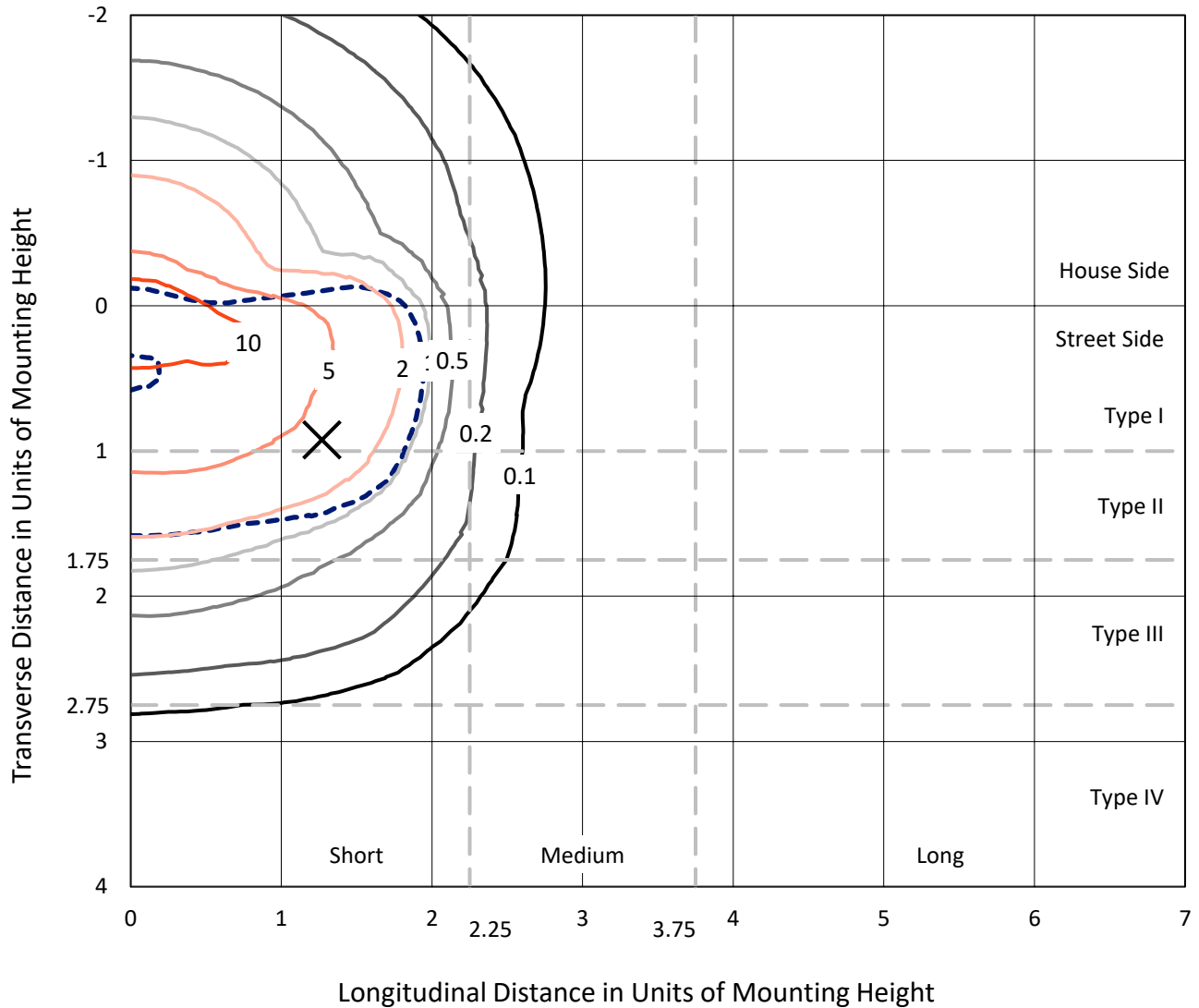
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

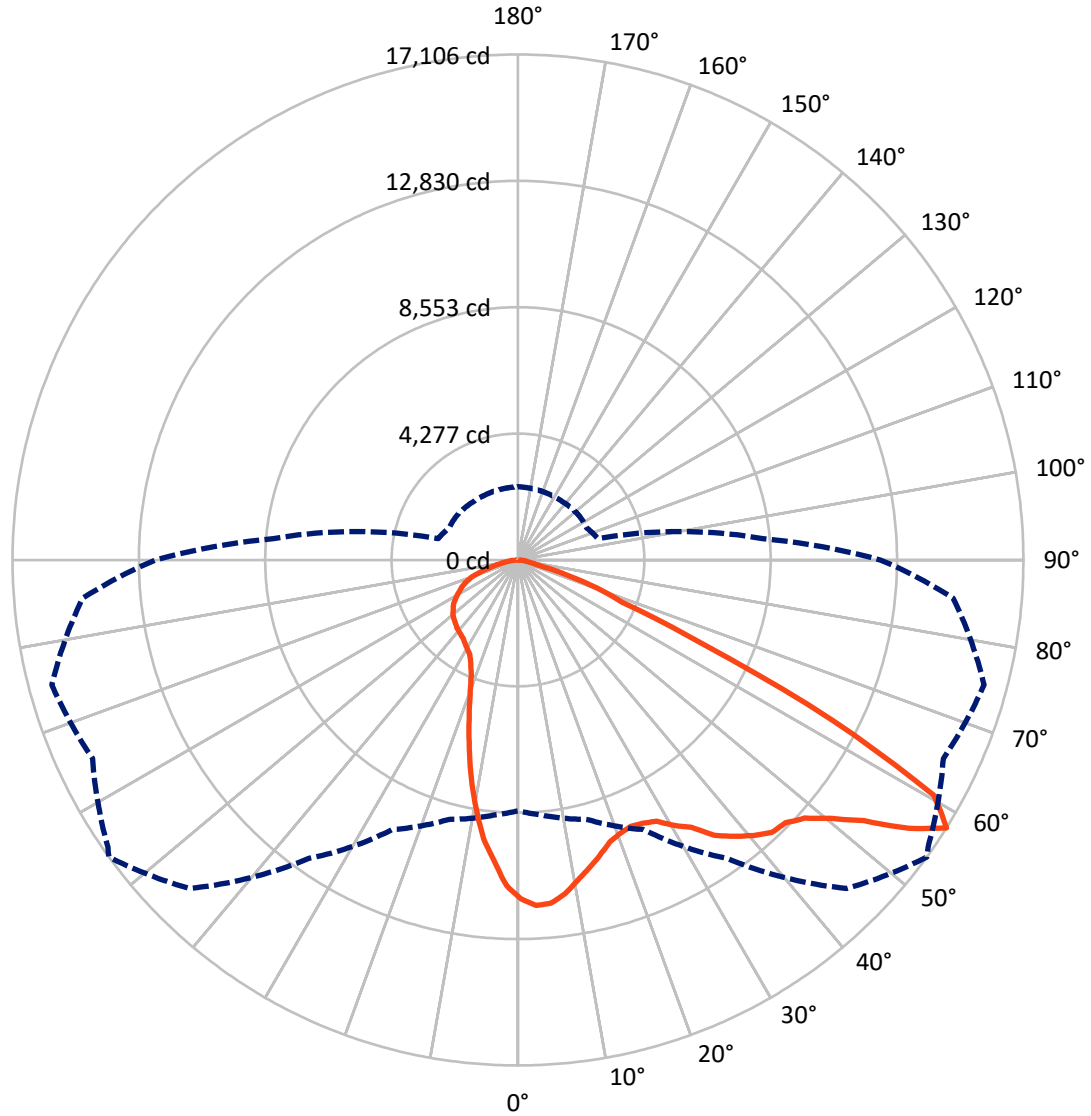
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8160.2	0.0	8160.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	21335.8	0.0	21335.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	29496.0	0.0	29496.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	988.7	3.4
10°-20°	2289.3	7.8
20°-30°	3216.4	10.9
30°-40°	4496.6	15.2
40°-50°	6087.5	20.6
50°-60°	7414.9	25.1
60°-70°	3862.0	13.1
70°-80°	989.6	3.4
80°-90°	150.9	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°	29496.0	100.0
0°-180°	29496.0	100.0

Coefficient of Utilization



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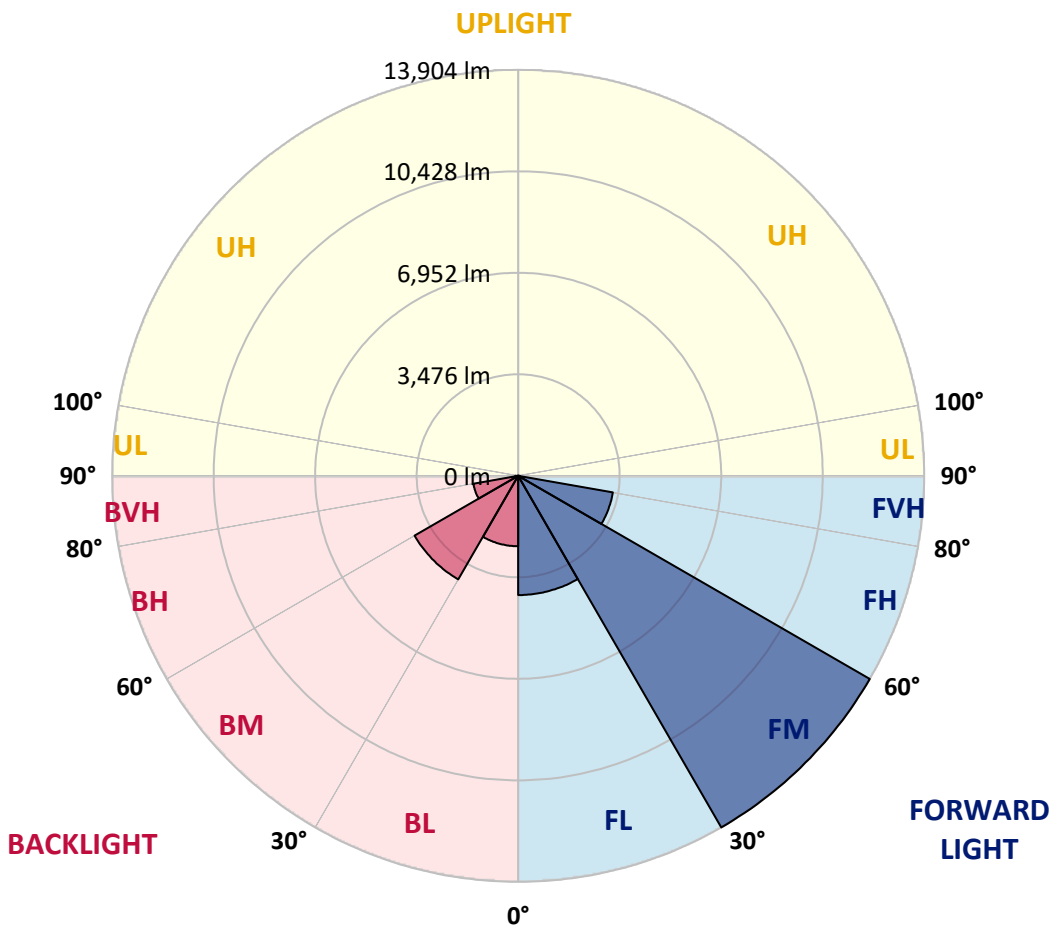
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4082.7	13.8			
FM (30°-60°)	13903.5	47.1			
FH (60°-80°)	3292.6	11.2			G2/5000
FVH (80°-90°)	57.0	0.2			G1/100
BL (0°-30°)	2411.8	8.2	B3/2500		
BM (30°-60°)	4095.5	13.9	B3/5000		
BH (60°-80°)	1559.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	93.9	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°	54°	55°	65°	75°	85°
0°	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8
2.5°	11790.8	11745.3	11752.9	11813.6	11737.7	11707.4	11707.4	11559.5	11570.9	11468.5	11442.0
5°	11517.8	11411.7	11483.7	11574.7	11589.9	11620.2	11669.5	11631.6	11525.4	11415.5	11237.3
7.5°	10805.1	10899.9	10926.4	10990.9	11127.3	11252.4	11407.9	11301.7	11297.9	11188.0	11081.8
10°	10179.5	10122.7	10266.7	10361.5	10589.0	10797.5	11036.3	11025.0	11081.8	10956.7	10774.7
12.5°	9557.8	9512.3	9580.5	9796.6	10115.1	10418.4	10702.7	10596.6	10899.9	10877.1	10486.6
15°	8898.1	8932.2	9030.8	9231.7	9648.7	10012.7	10372.9	10376.7	10645.8	10736.8	10213.6
17.5°	8435.5	8397.6	8522.7	8822.3	9193.8	9629.8	10039.2	10122.7	10535.9	10589.0	10130.2
20°	8090.5	8143.6	8306.6	8458.3	8886.7	9413.7	9876.2	9906.6	10513.2	10657.2	9997.5
22.5°	8007.1	7976.8	8029.9	8276.3	8628.9	9201.4	9789.0	9902.8	10509.4	10634.5	9747.3
25°	7919.9	8018.5	8014.7	8261.1	8519.0	9030.8	9861.1	9986.2	10710.3	10752.0	9781.4
27.5°	8117.1	8105.7	8211.9	8230.8	8549.3	9076.3	10012.7	10107.5	11043.9	11009.8	9808.0
30°	8314.2	8257.4	8321.8	8545.5	8693.3	9337.9	10429.7	10422.2	11476.1	11453.4	9891.4
32.5°	8556.9	8530.3	8572.0	8769.2	9019.4	9686.7	10782.3	11006.0	11915.9	12060.0	10179.5
35°	8602.4	8712.3	8810.9	9076.3	9432.6	10251.6	11445.8	11631.6	12423.9	12875.1	10729.3
37.5°	8890.5	8932.2	9163.5	9633.6	9959.6	11006.0	11866.6	11984.2	12886.5	13398.3	11309.3
40°	9197.6	9246.9	9595.7	10088.5	10535.9	11498.9	12260.9	12298.8	13034.3	13800.2	11688.4
42.5°	9614.6	9660.1	10005.1	10623.1	11222.1	11919.7	12609.7	12651.4	13023.0	14262.7	12291.3
45°	10046.8	10156.8	10562.4	11263.8	11802.2	12412.6	12689.3	12859.9	13129.1	14676.0	12780.3
47.5°	10653.4	10755.8	11089.4	11775.6	12405.0	12844.8	13057.1	13223.9	13383.1	15036.1	13095.0
50°	11297.9	11316.9	11722.6	12344.3	12806.9	13333.8	13743.3	13800.2	13716.8	15453.2	13629.6
52.5°	11771.8	11832.5	12147.2	12753.8	13443.8	14092.1	14653.2	14713.9	14550.8	15608.6	13811.5
55°	10987.1	10952.9	11464.8	12272.3	13872.2	15221.9	16037.0	16082.5	15157.4	16090.1	14406.8
57.5°	8492.4	8655.4	9091.4	10065.8	12325.4	15722.3	17106.1	16943.1	15885.4	16332.7	14785.9
60°	6172.2	6134.3	6426.2	7078.3	9288.6	13549.9	16173.5	16340.3	15290.1	14721.4	12192.7
62.5°	5027.2	4974.1	4996.9	5019.6	5994.0	8992.9	11972.8	11969.0	11775.6	10581.4	8223.2
65°	4018.7	4143.8	4155.2	4325.8	4450.9	5372.2	6938.0	7309.5	6365.5	5220.6	3787.5
67.5°	3029.2	2983.7	3135.4	3742.0	3977.0	3878.5	3787.5	3829.2	2722.1	1963.9	1850.1
70°	1785.7	1766.7	1948.7	2608.4	3275.6	3082.3	2854.8	2858.6	1869.1	1372.4	1527.9
72.5°	978.1	974.4	1012.3	1323.1	1861.5	1933.5	1713.6	1766.7	1114.6	1110.8	1194.2
75°	545.9	534.6	523.2	583.9	671.1	709.0	724.1	731.7	765.8	856.8	890.9
77.5°	200.9	193.4	193.4	223.7	284.3	356.4	451.2	458.7	542.1	621.8	655.9
80°	68.2	75.8	102.4	140.3	189.6	254.0	307.1	314.7	382.9	436.0	447.4
82.5°	41.7	45.5	68.2	98.6	136.5	178.2	227.5	231.3	284.3	318.5	333.6
85°	19.0	22.7	37.9	60.7	87.2	117.5	121.3	121.3	117.5	121.3	113.7
87.5°	0.0	0.0	7.6	7.6	7.6	11.4	15.2	11.4	19.0	22.7	22.7
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°	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8
2.5°	11362.4	11320.7	11191.8	11078.0	11043.9	10892.3	10668.6	10695.1	10532.1	10607.9	10528.3
5°	11207.0	11066.7	10736.8	10596.6	10228.8	10062.0	9948.3	9663.9	9531.2	9504.7	9390.9
7.5°	10808.9	10721.7	10308.4	9929.3	9538.8	9205.2	8776.8	8484.8	8276.3	8219.4	8052.6
10°	10494.2	10300.8	9728.4	9152.1	8594.8	8014.7	7457.4	7021.4	6809.1	6562.7	6479.3
12.5°	10183.3	9891.4	9118.0	8378.7	7658.3	6926.6	6251.8	5721.0	5258.5	5148.5	5110.6
15°	9990.0	9481.9	8572.0	7681.1	6657.4	5702.0	5027.2	4678.4	4394.1	4276.5	4359.9
17.5°	9735.9	9144.5	8048.8	6862.2	5736.2	4856.6	4291.7	4075.6	3973.2	3984.6	3950.5
20°	9417.5	8826.0	7362.6	6119.1	4913.5	4212.1	3889.8	3810.2	3825.4	3851.9	3840.5
22.5°	9190.0	8439.3	6866.0	5360.8	4246.2	3855.7	3723.0	3666.1	3715.4	3738.2	3719.2
25°	9015.6	8109.5	6263.2	4689.8	3859.5	3654.8	3594.1	3590.3	3666.1	3696.5	3677.5
27.5°	8856.4	7802.4	5664.1	4178.0	3601.7	3499.3	3480.4	3525.9	3575.2	3605.5	3632.0
30°	8761.6	7567.3	5103.0	3749.6	3472.8	3423.5	3389.4	3431.1	3457.6	3488.0	3472.8
32.5°	8852.6	7400.5	4560.9	3506.9	3366.6	3317.3	3362.8	3336.3	3381.8	3408.3	3366.6
35°	9136.9	7252.7	4174.2	3378.0	3245.3	3264.3	3271.9	3260.5	3279.4	3256.7	3306.0
37.5°	9417.5	7199.6	3817.8	3268.1	3188.4	3188.4	3180.9	3158.1	3196.0	3188.4	3211.2
40°	9773.9	7233.7	3514.5	3150.5	3135.4	3127.8	3097.5	3093.7	3078.5	3082.3	3089.9
42.5°	10084.7	7309.5	3340.1	3074.7	3086.1	3101.2	3044.4	2998.9	3017.8	2979.9	2979.9
45°	10414.6	7377.8	3184.7	3021.6	3010.3	3006.5	2961.0	2934.4	2919.3	2923.1	2957.2
47.5°	10934.0	7476.4	3067.1	2949.6	2957.2	2900.3	2888.9	2854.8	2870.0	2892.7	2896.5
50°	11301.7	7684.9	2976.1	2866.2	2892.7	2854.8	2786.6	2771.4	2771.4	2809.3	2801.7
52.5°	11559.5	7976.8	2888.9	2775.2	2786.6	2756.2	2733.5	2699.4	2676.6	2729.7	2756.2
55°	12348.1	8462.1	2866.2	2699.4	2695.6	2665.3	2623.5	2589.4	2578.1	2585.6	2638.7
57.5°	12272.3	8310.4	2794.2	2566.7	2559.1	2517.4	2475.7	2464.3	2460.5	2468.1	2483.3
60°	9963.4	6138.0	2494.6	2415.0	2403.7	2396.1	2354.4	2308.9	2286.1	2308.9	2289.9
62.5°	6593.0	4109.7	2198.9	2233.0	2240.6	2221.7	2153.4	2107.9	2115.5	2142.1	2100.4
65°	3237.7	2415.0	1994.2	2085.2	2092.8	2039.7	1975.2	1922.2	1895.6	1918.4	1899.4
67.5°	1850.1	1846.3	1827.4	1922.2	1918.4	1865.3	1762.9	1717.4	1671.9	1679.5	1668.2
70°	1569.6	1599.9	1637.8	1694.7	1690.9	1630.2	1508.9	1474.8	1410.3	1402.8	1383.8
72.5°	1235.9	1289.0	1372.4	1414.1	1380.0	1304.2	1224.6	1167.7	1110.8	1076.7	1088.1
75°	917.5	993.3	1038.8	1065.3	1012.3	970.6	906.1	837.9	769.6	739.3	727.9
77.5°	667.3	690.0	731.7	750.7	716.5	674.8	636.9	568.7	504.2	462.5	451.2
80°	466.3	481.5	511.8	511.8	511.8	492.9	443.6	375.3	333.6	295.7	288.1
82.5°	326.0	341.2	371.5	356.4	352.6	329.8	299.5	246.4	200.9	174.4	166.8
85°	113.7	125.1	151.7	182.0	193.4	189.6	170.6	136.5	106.2	87.2	79.6
87.5°	26.5	26.5	30.3	26.5	26.5	30.3	26.5	26.5	26.5	19.0	15.2
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)