

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: P534096

Luminaire Tested: **GALN-SA9C-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534096
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-SA9C-740-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 55637 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G4

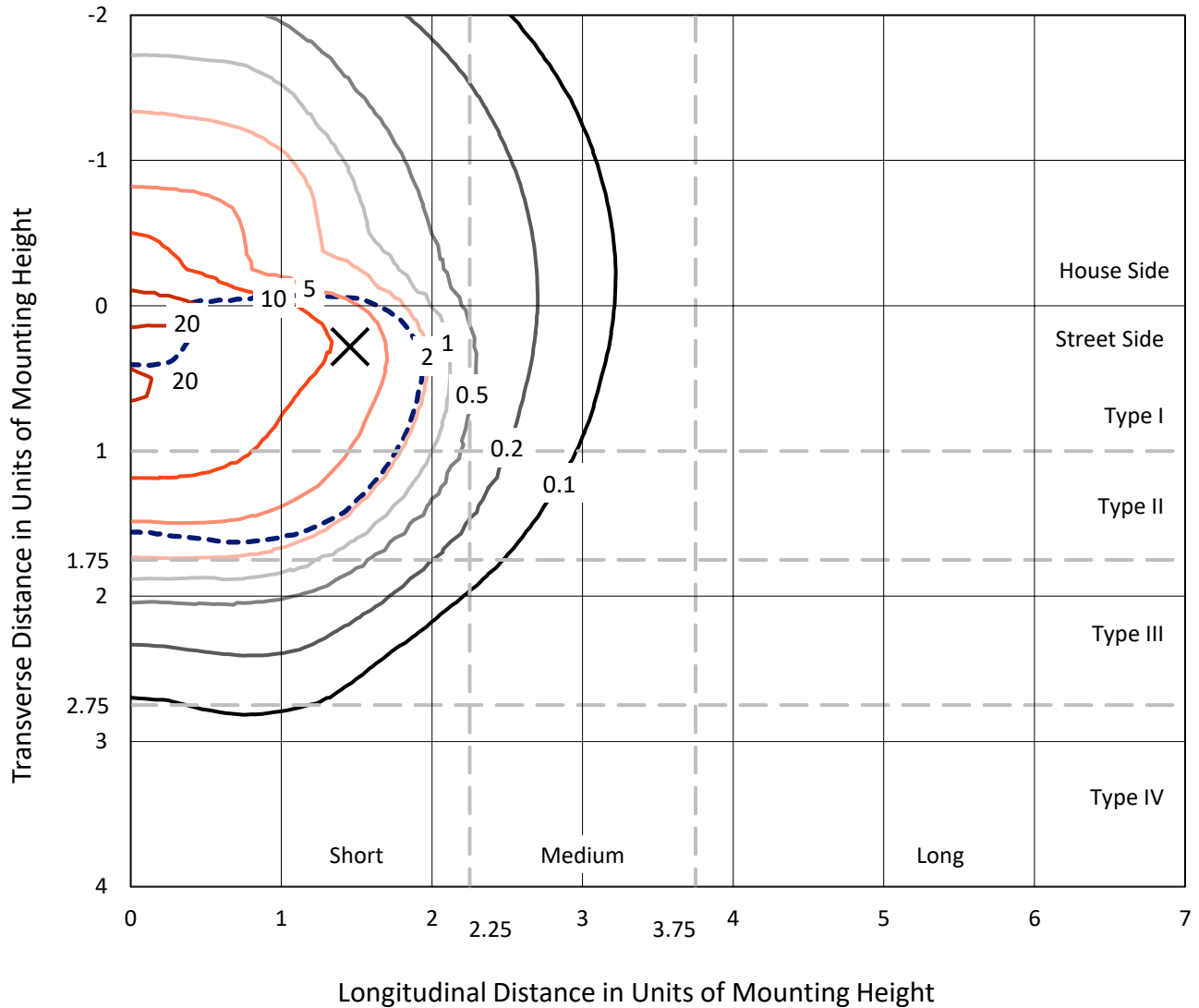
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

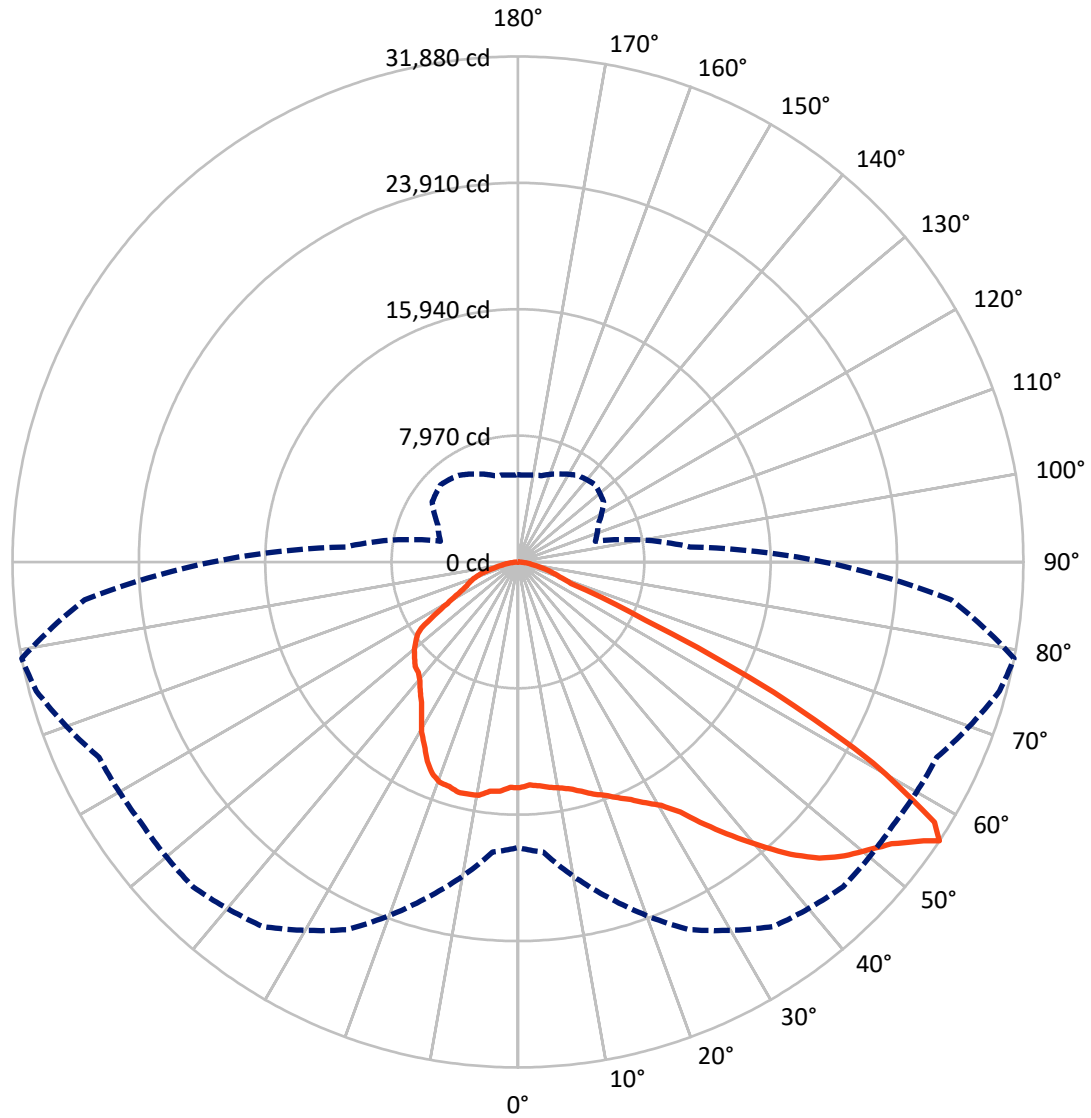
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 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	16430.8	0.0	16430.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	39206.2	0.0	39206.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	55637.0	0.0	55637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1294.3	2.3
10°-20°	3542.0	6.4
20°-30°	6059.7	10.9
30°-40°	9287.3	16.7
40°-50°	12551.7	22.6
50°-60°	14416.1	25.9
60°-70°	6571.3	11.8
70°-80°	1620.1	2.9
80°-90°	294.5	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°	55637.0	100.0
0°-180°	55637.0	100.0

Coefficient of Utilization

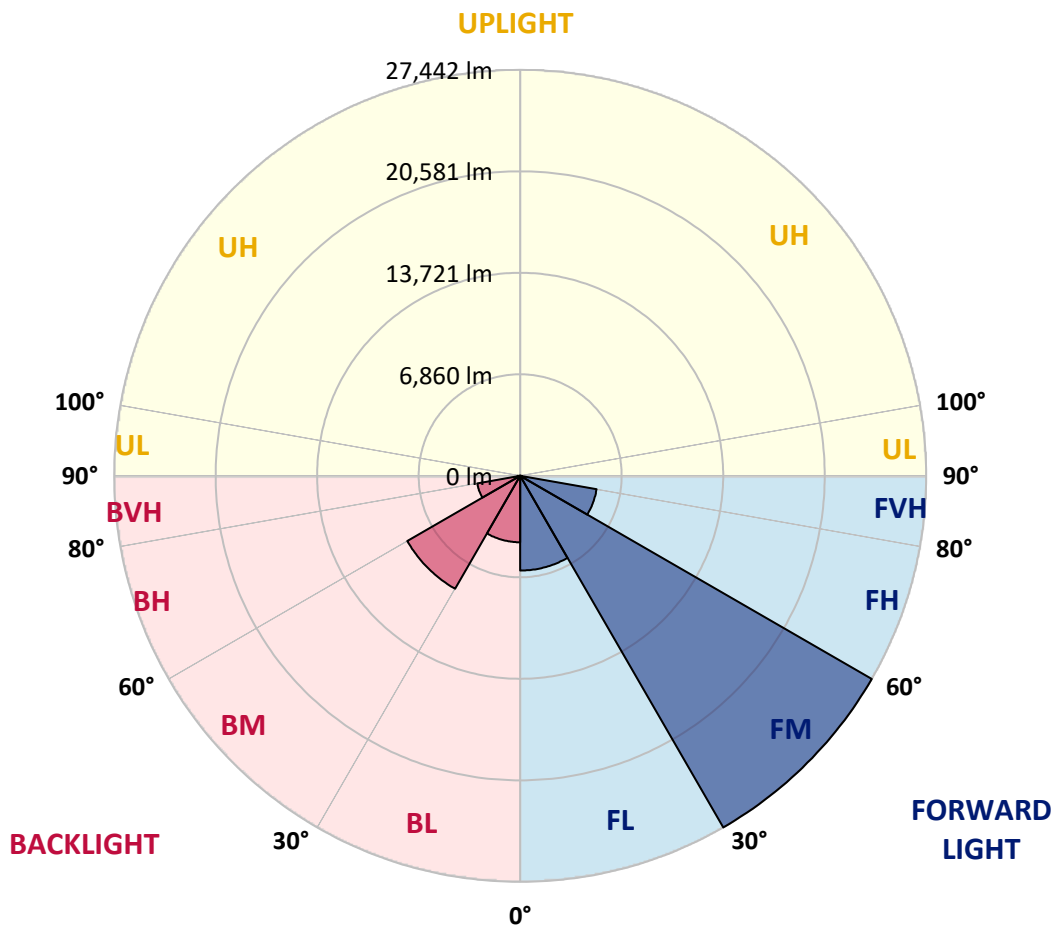


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6401.5	11.5			
FM (30°-60°)	27441.8	49.3			
FH (60°-80°)	5245.3	9.4			G3/7500
FVH (80°-90°)	117.6	0.2			G2/225
BL (0°-30°)	4494.5	8.1	B4/5000		
BM (30°-60°)	8813.3	15.8	B5		
BH (60°-80°)	2946.1	5.3	B4/5000		G4/5000
BVH (80°-90°)	176.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	14235.3	14235.3	14235.3	14235.3	14235.3	14235.3	14235.3	14235.3	14235.3	14235.3	14235.3
2.5°	13542.3	13507.6	13590.8	13653.1	13729.4	13826.4	13874.9	13902.6	14145.2	14082.8	14270.0
5°	13251.2	13161.1	13223.4	13272.0	13403.6	13521.5	13653.1	13861.1	14082.8	14179.9	14408.6
7.5°	12994.7	12946.2	12932.4	12967.0	13147.2	13299.7	13528.4	13833.3	14193.7	14353.1	14484.8
10°	12572.0	12502.7	12606.6	12835.3	12883.9	13202.7	13466.0	13902.6	14214.5	14491.7	14879.8
12.5°	12384.9	12315.5	12336.3	12468.0	12807.6	13112.6	13424.4	13916.5	14574.9	14685.8	15205.6
15°	12682.9	12613.6	12634.4	12599.7	12925.4	13084.8	13576.9	14193.7	14824.4	15011.5	15566.0
17.5°	13362.1	13369.0	13278.9	13202.7	13126.4	13466.0	13805.6	14360.1	14921.4	15392.7	15808.5
20°	14658.1	14429.4	14249.2	13819.5	13701.7	13847.2	14276.9	14810.5	15316.5	15704.6	16175.9
22.5°	15656.1	15676.9	15420.4	14713.5	14457.1	14519.5	14886.8	15323.4	15877.8	16155.1	16695.6
25°	17104.5	16959.0	16681.8	16120.4	15545.2	15593.7	15864.0	16259.0	16411.5	16605.5	17194.6
27.5°	18428.3	18469.9	17922.3	17395.6	16681.8	16543.2	17028.3	17097.6	16841.2	17208.5	17409.5
30°	19772.8	19738.1	19377.8	18760.9	18061.0	18088.7	18303.5	17963.9	17610.5	17811.5	17950.1
32.5°	21165.8	20770.8	20756.9	20202.5	19668.8	19412.4	19149.0	19315.4	18767.9	18809.5	18677.8
35°	22281.6	22337.1	22018.3	21623.2	21359.9	20909.4	20188.6	20486.6	20382.7	20334.2	19765.9
37.5°	23092.5	22877.7	23037.1	22905.4	22655.9	22094.5	21346.0	21630.2	21678.7	21914.3	21255.9
40°	23757.9	23667.8	24090.5	24159.8	23986.6	22773.7	21429.2	22274.7	23002.4	23515.3	22732.1
42.5°	24076.7	24270.7	24714.3	25247.9	24859.8	23563.8	21858.9	22766.8	24388.5	25199.4	24132.1
45°	24506.3	24256.8	24915.2	25892.5	25899.4	24229.1	22274.7	23432.1	25469.7	26647.9	25088.5
47.5°	24069.7	24194.5	24873.7	26114.2	26433.0	24929.1	23397.5	24374.7	26661.7	27708.3	25975.6
50°	23092.5	23342.0	24582.6	25871.7	26835.0	25670.7	24686.5	25393.5	27763.7	28560.7	26121.2
52.5°	22073.7	22212.3	24152.9	26058.8	27015.2	26627.1	26412.2	26800.4	29108.2	29524.1	26301.4
55°	19301.5	19959.9	22732.1	25975.6	27895.4	28352.8	28186.5	28754.8	30632.9	31048.8	27285.5
56°	18019.4	18365.9	21879.7	25587.5	28068.6	28983.5	28900.3	29156.7	31443.8	31880.4	27438.0
57.5°	15649.1	15676.9	18657.0	23868.7	27417.2	29170.6	29087.4	29288.4	31284.4	30986.4	26100.4
60°	9792.8	10222.5	12696.7	18359.0	23314.3	27063.7	27535.0	25920.2	26377.6	25746.9	20306.4
62.5°	5073.1	5010.8	6653.3	10735.4	15475.9	19377.8	19814.4	19738.1	19031.2	18109.5	13265.0
65°	2529.6	2543.5	3479.1	5315.7	7928.5	10146.3	11366.1	11497.7	9619.6	8850.3	6292.9
67.5°	1836.6	1905.9	2501.9	3250.4	3735.6	4179.1	5121.7	5024.6	3804.9	3617.7	3354.4
70°	1427.7	1490.1	2030.6	2481.1	2252.4	2252.4	2453.4	2536.6	2709.8	2786.1	2876.2
72.5°	1039.6	1088.1	1552.4	1711.8	1476.2	1587.1	1836.6	2030.6	2210.8	2238.6	2342.5
75°	713.8	755.4	1018.8	942.6	887.1	1095.0	1344.5	1524.7	1656.4	1725.7	1788.1
77.5°	464.3	478.2	582.2	492.1	568.3	706.9	873.2	1025.7	1157.4	1212.8	1226.7
80°	207.9	228.7	249.5	311.9	395.0	505.9	623.7	748.5	831.7	852.5	894.0
82.5°	117.8	117.8	152.5	221.8	291.1	367.3	450.5	540.6	637.6	658.4	651.5
85°	62.4	62.4	90.1	131.7	180.2	214.8	207.9	214.8	228.7	263.4	256.4
87.5°	20.8	20.8	27.7	27.7	34.7	41.6	34.7	48.5	62.4	62.4	62.4
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°	14235.3	14235.3	14235.3	14235.3	14235.3	14235.3	14235.3	14235.3	14235.3	14235.3	14235.3
2.5°	14214.5	14276.9	14193.7	14373.9	14373.9	14339.3	14166.0	14221.4	14263.0	14263.0	14297.7
5°	14484.8	14464.0	14519.5	14304.6	14172.9	14124.4	13840.3	13701.7	13583.8	13576.9	13472.9
7.5°	14637.3	14581.8	14561.0	14401.6	13819.5	13466.0	12856.1	12502.7	12426.4	12156.1	12260.1
10°	14879.8	14983.8	14879.8	14013.5	13202.7	12391.8	11795.8	11248.2	11033.4	10860.1	10756.2
12.5°	15378.8	15330.3	14727.4	13556.1	12419.5	11456.2	10569.1	9993.8	9779.0	9626.5	9612.6
15°	15801.6	15559.0	14637.3	12835.3	11199.7	10174.0	9446.3	9037.4	8940.4	8954.2	9016.6
17.5°	15947.1	15780.8	14166.0	12086.8	10291.8	9085.9	8746.3	8684.0	8774.0	8878.0	8905.7
20°	16175.9	15912.5	13971.9	11068.1	9169.1	8406.7	8385.9	8607.7	8774.0	8926.5	8947.3
22.5°	16654.1	15988.7	13341.3	10104.7	8399.8	8205.7	8406.7	8593.9	8850.3	8975.0	8864.1
25°	16792.7	15822.4	12454.2	8947.3	7914.7	8081.0	8295.8	8552.3	8732.5	8801.8	8850.3
27.5°	16910.5	15566.0	11255.2	8178.0	7762.2	8074.1	8295.8	8510.7	8607.7	8670.1	8725.5
30°	17243.2	15489.7	10215.6	7665.2	7665.2	7935.5	8219.6	8275.1	8406.7	8483.0	8580.0
32.5°	17409.5	14963.0	9148.3	7339.4	7568.1	8004.8	8025.6	8129.5	8136.4	8198.8	8094.9
35°	17846.1	14588.8	8157.2	7103.8	7609.7	7935.5	8039.4	7977.0	7637.4	7471.1	7505.8
37.5°	18164.9	14401.6	7443.4	7076.1	7616.7	8011.7	8067.1	7595.9	7242.4	6965.2	7034.5
40°	19024.3	13937.3	6902.8	7027.6	7679.0	8094.9	7942.4	7429.5	6791.9	6507.8	6459.3
42.5°	19682.7	13604.6	6563.2	6972.1	7727.5	8212.7	7880.0	7096.9	6445.4	6182.0	6251.3
45°	20445.1	13528.4	6383.0	6986.0	7810.7	8275.1	7803.8	6840.4	6147.4	6043.4	6022.6
47.5°	20715.3	12980.9	6189.0	6868.2	7789.9	8254.3	7547.3	6646.4	6036.5	6050.4	6105.8
50°	20264.9	12419.5	6043.4	6625.6	7651.3	8067.1	7145.4	6389.9	5974.1	6147.4	6244.4
52.5°	19689.6	11844.3	5745.4	6299.9	7367.2	7776.1	6958.3	6376.1	5911.7	5856.3	5877.1
55°	19862.9	11373.0	5329.6	5856.3	6909.7	7235.5	6750.3	6244.4	5759.3	5551.4	5620.7
56°	19301.5	10887.9	5059.3	5579.1	6597.9	6888.9	6646.4	6126.6	5634.5	5495.9	5495.9
57.5°	17714.4	9259.2	4705.8	5135.5	5939.5	6286.0	6445.4	6057.3	5495.9	5253.3	5260.3
60°	13064.0	6584.0	4220.7	4525.6	4920.7	5197.9	5939.5	5863.2	5149.4	4983.0	4920.7
62.5°	8053.3	4809.8	3874.2	3992.0	4193.0	4421.7	5184.0	5308.8	4782.1	4601.9	4560.3
65°	4511.8	3680.1	3610.8	3659.3	3756.3	3874.2	4303.9	4581.1	4220.7	3943.5	3929.6
67.5°	3298.9	3292.0	3347.4	3389.0	3430.6	3430.6	3534.6	3645.5	3596.9	3375.2	3354.4
70°	2931.6	2952.4	2994.0	3000.9	3014.8	2966.3	2883.1	2848.4	2903.9	2765.3	2737.6
72.5°	2418.8	2488.1	2536.6	2543.5	2467.3	2404.9	2294.0	2176.2	2134.6	2106.9	2100.0
75°	1857.4	1905.9	1926.7	1919.8	1892.0	1801.9	1670.3	1552.4	1476.2	1393.0	1434.6
77.5°	1254.4	1323.7	1358.4	1358.4	1316.8	1178.2	1115.8	1025.7	949.5	859.4	873.2
80°	880.2	928.7	984.1	977.2	907.9	838.6	748.5	665.3	603.0	533.7	526.7
82.5°	658.4	686.1	713.8	700.0	651.5	582.2	519.8	443.6	374.2	325.7	325.7
85°	235.6	256.4	311.9	325.7	353.5	353.5	298.0	249.5	201.0	166.3	166.3
87.5°	69.3	69.3	76.2	76.2	69.3	76.2	62.4	69.3	76.2	48.5	48.5
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)