

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: P531276

Luminaire Tested: **GALN-SA6C-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531276
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-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 35269 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

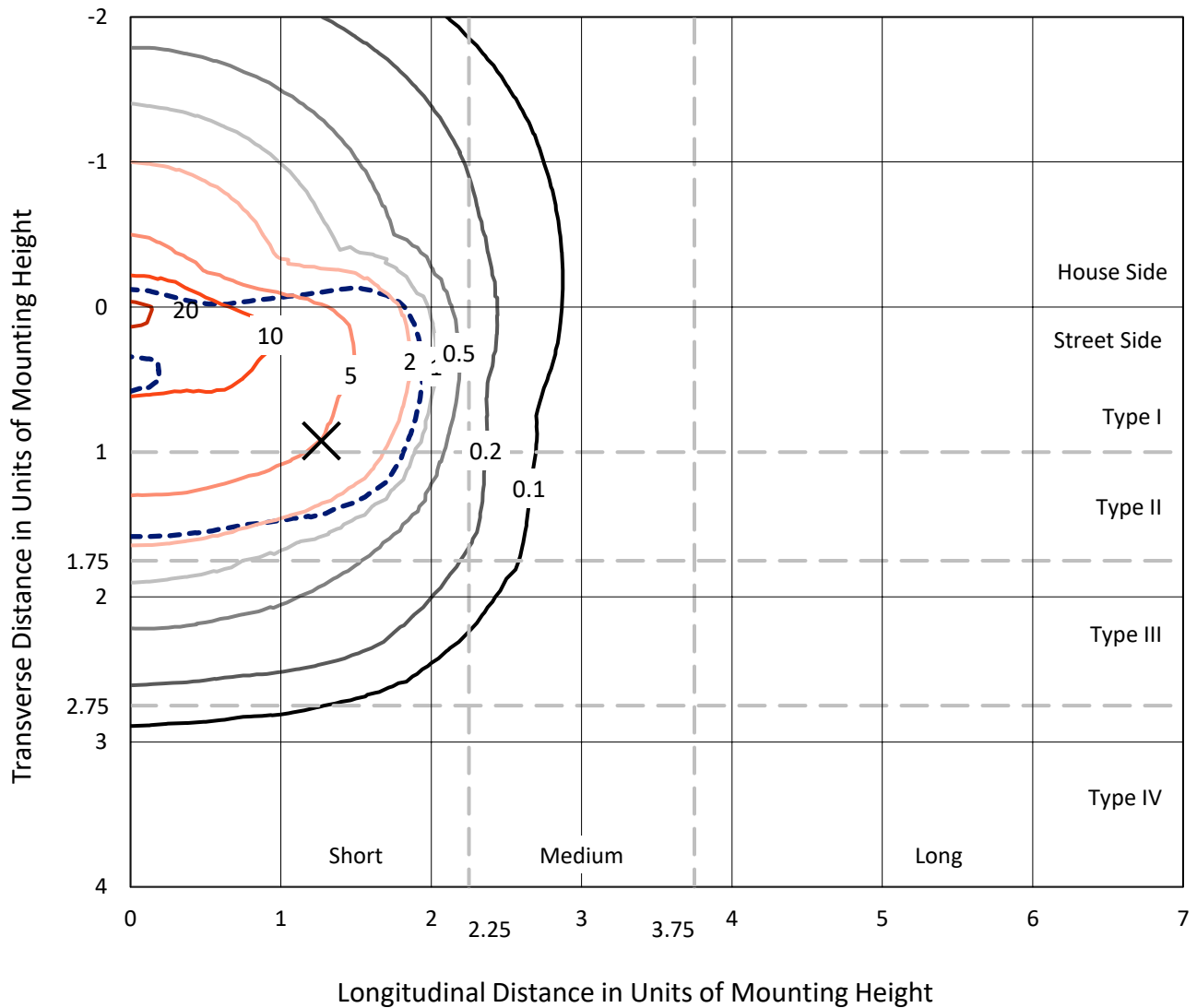
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

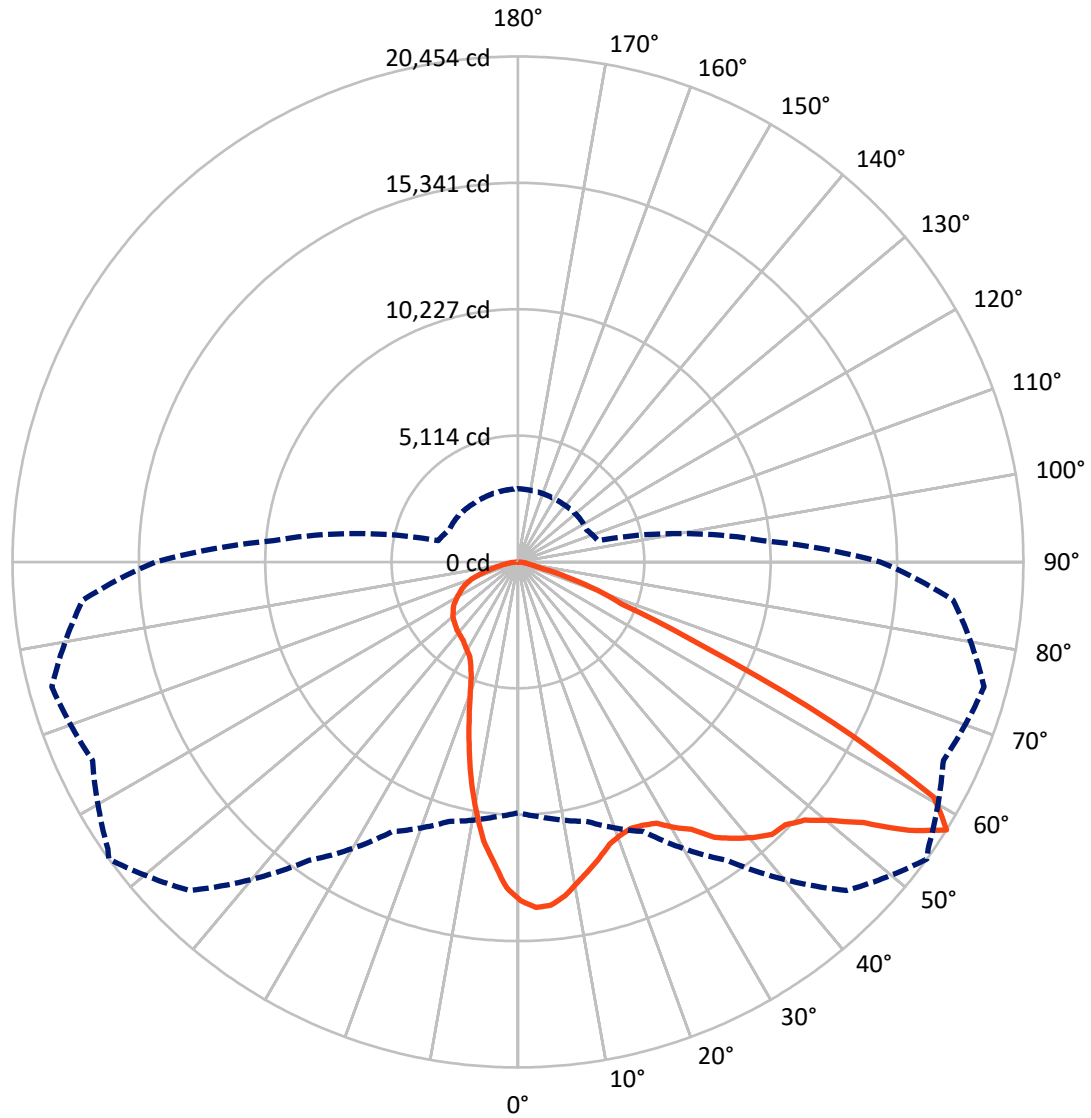
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 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	9757.4	0.0	9757.4
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	25511.6	0.0	25511.6
	% Fixture	72.3	0.0	72.3
Total	Lumens	35269.0	0.0	35269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1182.2	3.4
10°-20°	2737.3	7.8
20°-30°	3846.0	10.9
30°-40°	5376.7	15.2
40°-50°	7279.0	20.6
50°-60°	8866.1	25.1
60°-70°	4617.9	13.1
70°-80°	1183.3	3.4
80°-90°	180.5	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°	35269.0	100.0
0°-180°	35269.0	100.0

Coefficient of Utilization



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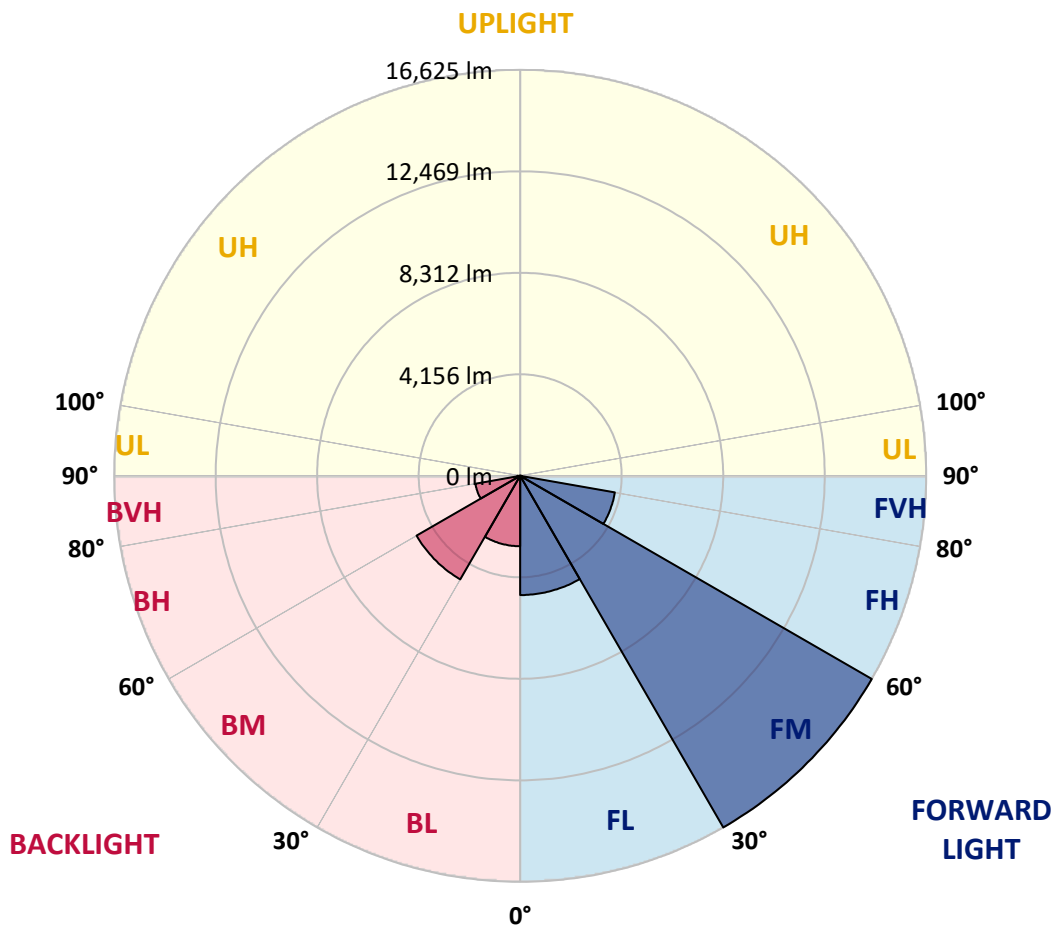
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4881.7	13.8			
FM (30°-60°)	16624.7	47.1			
FH (60°-80°)	3937.0	11.2			G2/5000
FVH (80°-90°)	68.2	0.2			G1/100
BL (0°-30°)	2883.8	8.2	B4/5000		
BM (30°-60°)	4897.1	13.9	B3/5000		
BH (60°-80°)	1864.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	112.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13708.7	13708.7	13708.7	13708.7	13708.7	13708.7	13708.7	13708.7	13708.7	13708.7	13708.7
2.5°	14098.5	14044.1	14053.2	14125.7	14035.1	13998.8	13998.8	13822.0	13835.6	13713.2	13681.5
5°	13772.1	13645.2	13731.3	13840.1	13858.3	13894.5	13953.5	13908.1	13781.2	13649.7	13436.7
7.5°	12919.9	13033.2	13064.9	13142.0	13305.2	13454.8	13640.7	13513.7	13509.2	13377.7	13250.8
10°	12171.9	12103.9	12276.1	12389.5	12661.5	12910.8	13196.4	13182.8	13250.8	13101.2	12883.6
12.5°	11428.4	11374.0	11455.6	11714.0	12094.8	12457.5	12797.5	12670.5	13033.2	13006.0	12539.1
15°	10639.6	10680.4	10798.3	11038.6	11537.2	11972.4	12403.1	12407.6	12729.5	12838.3	12212.7
17.5°	10086.6	10041.2	10190.8	10549.0	10993.2	11514.5	12004.1	12103.9	12598.0	12661.5	12112.9
20°	9674.0	9737.5	9932.4	10113.8	10626.0	11256.1	11809.2	11845.5	12570.8	12743.1	11954.3
22.5°	9574.3	9538.0	9601.5	9896.2	10317.8	11002.3	11704.9	11840.9	12566.3	12715.9	11655.1
25°	9470.0	9587.9	9583.4	9878.0	10186.3	10798.3	11791.1	11940.7	12806.5	12856.4	11695.9
27.5°	9705.8	9692.2	9819.1	9841.8	10222.6	10852.7	11972.4	12085.7	13205.5	13164.7	11727.6
30°	9941.5	9873.5	9950.6	10218.0	10394.8	11165.5	12471.1	12462.0	13722.3	13695.1	11827.3
32.5°	10231.6	10199.9	10249.8	10485.5	10784.7	11582.5	12892.7	13160.1	14248.1	14420.4	12171.9
35°	10286.0	10417.5	10535.4	10852.7	11278.8	12258.0	13686.0	13908.1	14855.6	15395.0	12829.2
37.5°	10630.6	10680.4	10957.0	11519.1	11908.9	13160.1	14189.2	14329.7	15408.6	16020.6	13522.8
40°	10997.8	11056.7	11473.7	12063.1	12598.0	13749.5	14660.6	14706.0	15585.4	16501.2	13976.1
42.5°	11496.4	11550.8	11963.3	12702.3	13418.5	14252.7	15077.7	15127.6	15571.8	17054.2	14696.9
45°	12013.2	12144.7	12629.7	13468.4	14112.1	14842.0	15172.9	15376.9	15698.8	17548.3	15281.7
47.5°	12738.5	12860.9	13259.9	14080.4	14832.9	15358.8	15612.6	15812.1	16002.5	17979.0	15658.0
50°	13509.2	13531.9	14016.9	14760.4	15313.4	15943.6	16433.2	16501.2	16401.4	18477.7	16297.2
52.5°	14075.9	14148.4	14524.6	15250.0	16075.0	16850.2	17521.1	17593.7	17398.8	18663.5	16514.8
55°	13137.5	13096.7	13708.7	14674.2	16587.3	18201.1	19175.8	19230.2	18124.1	19239.3	17226.5
57.5°	10154.6	10349.5	10870.8	12035.9	14737.7	18799.5	20454.2	20259.3	18994.5	19529.4	17679.8
60°	7380.2	7334.9	7683.9	8463.6	11106.6	16202.0	19339.0	19538.5	18282.7	17602.7	14579.0
62.5°	6011.1	5947.7	5974.9	6002.1	7167.1	10753.0	14316.1	14311.6	14080.4	12652.4	9832.7
65°	4805.3	4954.9	4968.5	5172.5	5322.1	6423.7	8295.9	8740.2	7611.4	6242.3	4528.8
67.5°	3622.1	3567.7	3749.0	4474.4	4755.4	4637.6	4528.8	4578.6	3254.9	2348.2	2212.2
70°	2135.2	2112.5	2330.1	3118.9	3916.8	3685.6	3413.6	3418.1	2234.9	1641.0	1826.9
72.5°	1169.6	1165.1	1210.4	1582.1	2225.8	2312.0	2049.0	2112.5	1332.8	1328.3	1428.0
75°	652.8	639.2	625.6	698.1	802.4	847.7	865.9	874.9	915.7	1024.5	1065.3
77.5°	240.3	231.2	231.2	267.5	340.0	426.1	539.5	548.5	648.3	743.5	784.3
80°	81.6	90.7	122.4	167.7	226.7	303.7	367.2	376.3	457.9	521.3	534.9
82.5°	49.9	54.4	81.6	117.9	163.2	213.1	272.0	276.5	340.0	380.8	398.9
85°	22.7	27.2	45.3	72.5	104.3	140.5	145.1	145.1	140.5	145.1	136.0
87.5°	0.0	0.0	9.1	9.1	9.1	13.6	18.1	13.6	22.7	27.2	27.2
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°	13708.7	13708.7	13708.7	13708.7	13708.7	13708.7	13708.7	13708.7	13708.7	13708.7	13708.7
2.5°	13586.3	13536.4	13382.3	13246.3	13205.5	13024.1	12756.7	12788.4	12593.5	12684.1	12588.9
5°	13400.4	13232.7	12838.3	12670.5	12230.8	12031.3	11895.3	11555.3	11396.7	11364.9	11228.9
7.5°	12924.4	12820.1	12326.0	11872.7	11405.7	11006.8	10494.6	10145.5	9896.2	9828.2	9628.7
10°	12548.1	12316.9	11632.4	10943.4	10277.0	9583.4	8917.0	8395.6	8141.8	7847.1	7747.4
12.5°	12176.4	11827.3	10902.6	10018.6	9157.2	8282.3	7475.4	6840.7	6287.7	6156.2	6110.9
15°	11945.2	11337.7	10249.8	9184.4	7960.4	6818.1	6011.1	5594.1	5254.1	5113.5	5213.3
17.5°	11641.5	10934.3	9624.2	8205.2	6858.9	5807.1	5131.7	4873.3	4750.9	4764.5	4723.7
20°	11260.7	10553.5	8803.6	7316.7	5875.1	5036.5	4651.2	4556.0	4574.1	4605.8	4592.2
22.5°	10988.7	10091.1	8209.8	6410.1	5077.3	4610.4	4451.7	4383.7	4442.6	4469.8	4447.2
25°	10780.2	9696.7	7489.0	5607.7	4614.9	4370.1	4297.6	4293.0	4383.7	4420.0	4397.3
27.5°	10589.8	9329.5	6772.7	4995.7	4306.6	4184.2	4161.6	4216.0	4274.9	4311.2	4342.9
30°	10476.4	9048.4	6101.8	4483.4	4152.5	4093.6	4052.8	4102.6	4134.4	4170.6	4152.5
32.5°	10585.2	8849.0	5453.5	4193.3	4025.6	3966.6	4021.0	3989.3	4043.7	4075.4	4025.6
35°	10925.2	8672.2	4991.1	4039.2	3880.5	3903.2	3912.2	3898.6	3921.3	3894.1	3953.0
37.5°	11260.7	8608.7	4565.0	3907.7	3812.5	3812.5	3803.4	3776.2	3821.6	3812.5	3839.7
40°	11686.8	8649.5	4202.4	3767.2	3749.0	3740.0	3703.7	3699.2	3681.0	3685.6	3694.6
42.5°	12058.5	8740.2	3993.8	3676.5	3690.1	3708.2	3640.2	3585.8	3608.5	3563.2	3563.2
45°	12452.9	8821.8	3808.0	3613.0	3599.4	3594.9	3540.5	3508.8	3490.6	3495.2	3536.0
47.5°	13074.0	8939.6	3667.4	3526.9	3536.0	3468.0	3454.4	3413.6	3431.7	3458.9	3463.4
50°	13513.7	9189.0	3558.6	3427.2	3458.9	3413.6	3332.0	3313.8	3313.8	3359.2	3350.1
52.5°	13822.0	9538.0	3454.4	3318.4	3332.0	3295.7	3268.5	3227.7	3200.5	3264.0	3295.7
55°	14764.9	10118.3	3427.2	3227.7	3223.2	3186.9	3137.0	3096.2	3082.6	3091.7	3155.2
57.5°	14674.2	9937.0	3341.0	3069.0	3060.0	3010.1	2960.2	2946.6	2942.1	2951.2	2969.3
60°	11913.5	7339.4	2982.9	2887.7	2874.1	2865.0	2815.2	2760.8	2733.6	2760.8	2738.1
62.5°	7883.4	4914.1	2629.3	2670.1	2679.2	2656.5	2574.9	2520.5	2529.6	2561.3	2511.4
65°	3871.4	2887.7	2384.5	2493.3	2502.4	2438.9	2361.8	2298.4	2266.6	2293.8	2271.2
67.5°	2212.2	2207.7	2185.0	2298.4	2293.8	2230.4	2108.0	2053.6	1999.2	2008.2	1994.6
70°	1876.8	1913.0	1958.4	2026.4	2021.8	1949.3	1804.2	1763.4	1686.4	1677.3	1654.6
72.5°	1477.9	1541.3	1641.0	1690.9	1650.1	1559.5	1464.3	1396.3	1328.3	1287.5	1301.1
75°	1097.1	1187.7	1242.1	1273.9	1210.4	1160.5	1083.5	1001.9	920.3	884.0	870.4
77.5°	797.9	825.1	874.9	897.6	856.8	806.9	761.6	680.0	602.9	553.1	539.5
80°	557.6	575.7	612.0	612.0	612.0	589.3	530.4	448.8	398.9	353.6	344.5
82.5°	389.9	408.0	444.3	426.1	421.6	394.4	358.1	294.7	240.3	208.5	199.5
85°	136.0	149.6	181.3	217.6	231.2	226.7	204.0	163.2	126.9	104.3	95.2
87.5°	31.7	31.7	36.3	31.7	31.7	36.3	31.7	31.7	31.7	22.7	18.1
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)