

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: P455546

Luminaire Tested: **GALN-SA6D-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39098 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

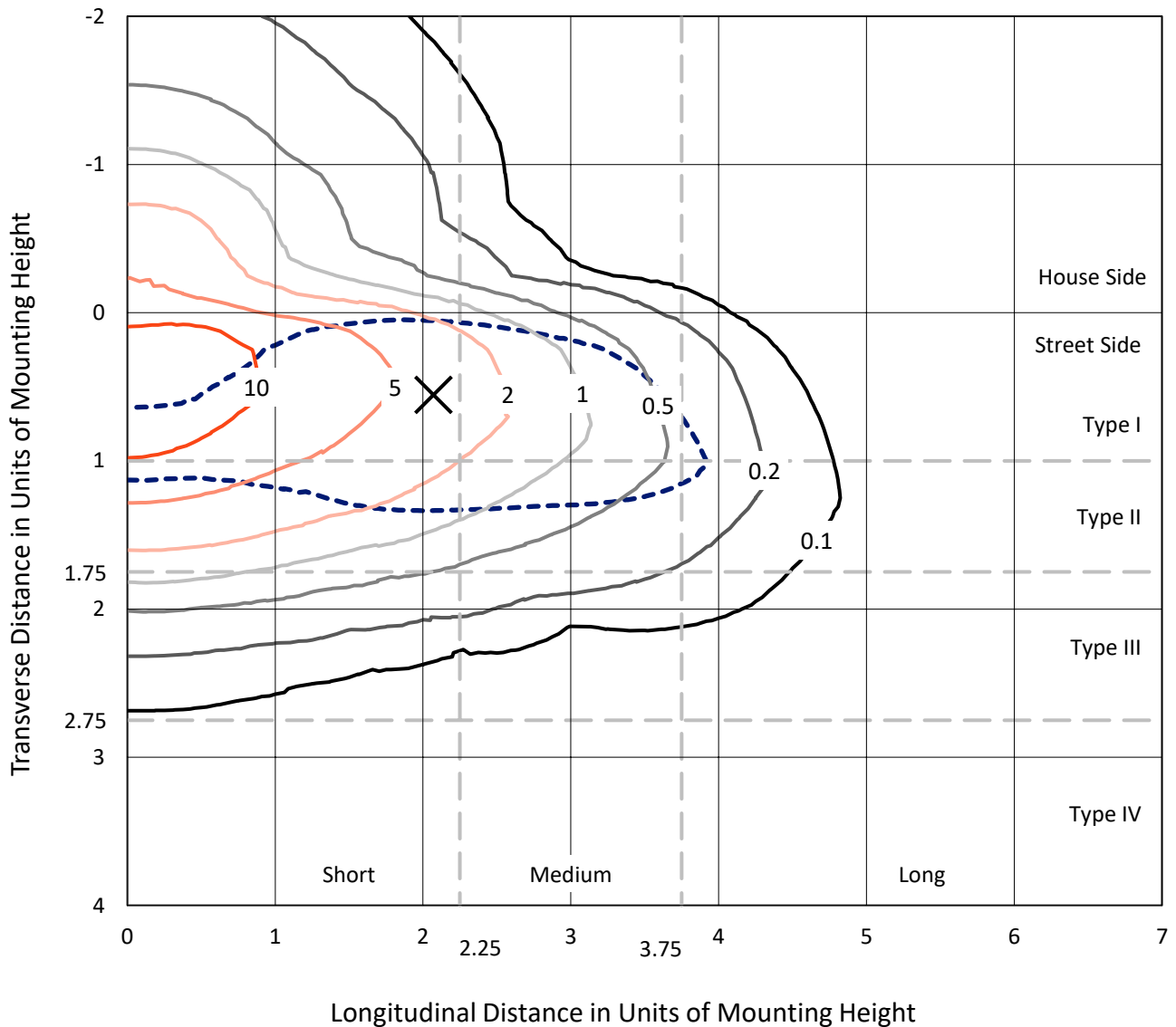
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455546
 CATALOG NUMBER: GALN-SA6D-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

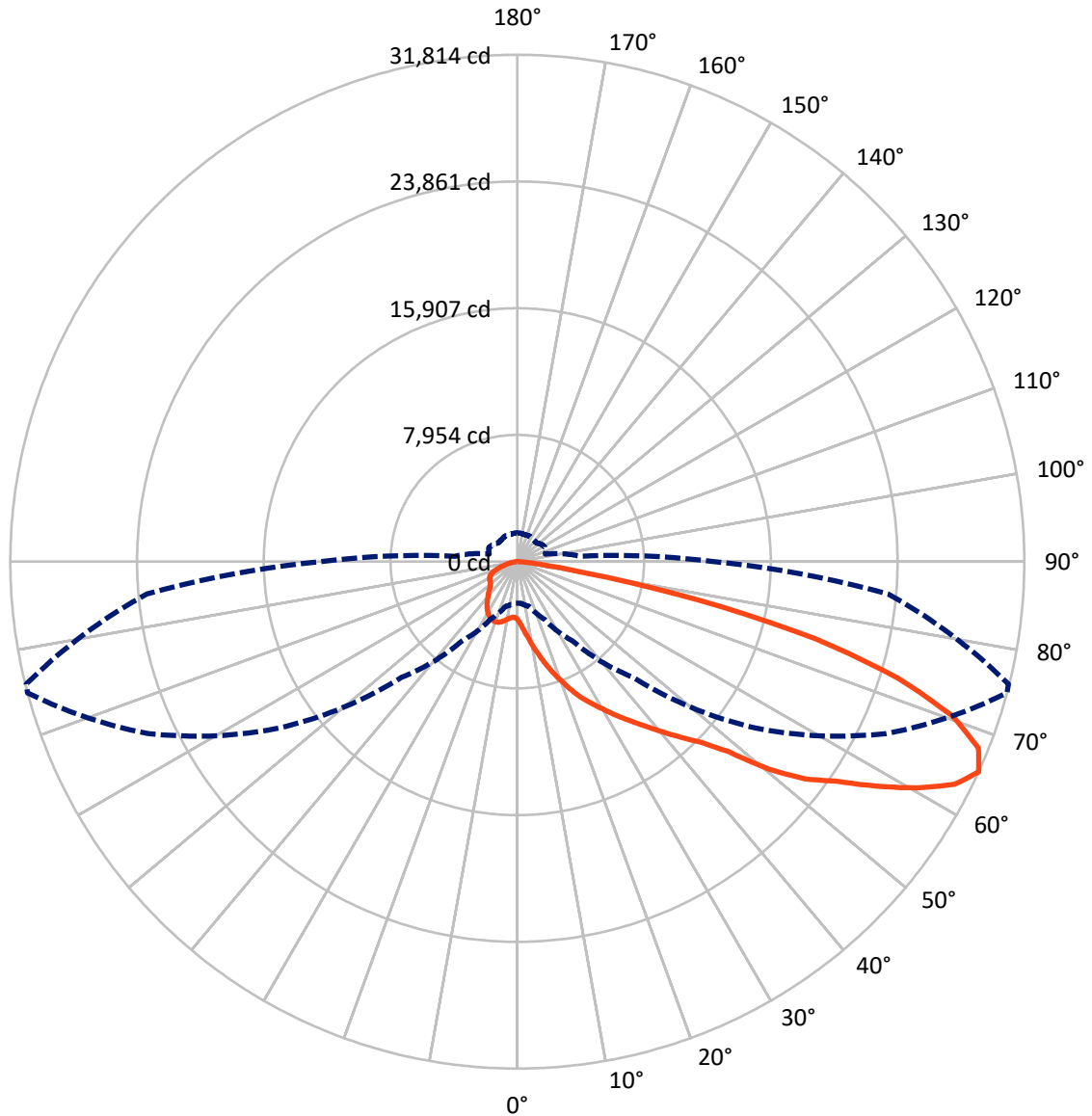
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - N/A

REPORT NUMBER: P455546
CATALOG NUMBER: GALN-SA6D-727-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P455546

CATALOG NUMBER: GALN-SA6D-727-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6572.9	0.0	6572.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	32525.1	0.0	32525.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	39098.0	0.0	39098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.4	1.1
10°-20°	1728.8	4.4
20°-30°	3339.4	8.5
30°-40°	5424.1	13.9
40°-50°	7461.4	19.1
50°-60°	8809.4	22.5
60°-70°	7718.5	19.7
70°-80°	3684.8	9.4
80°-90°	490.3	1.3
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°	39098.0	100.0
0°-180°	39098.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455546

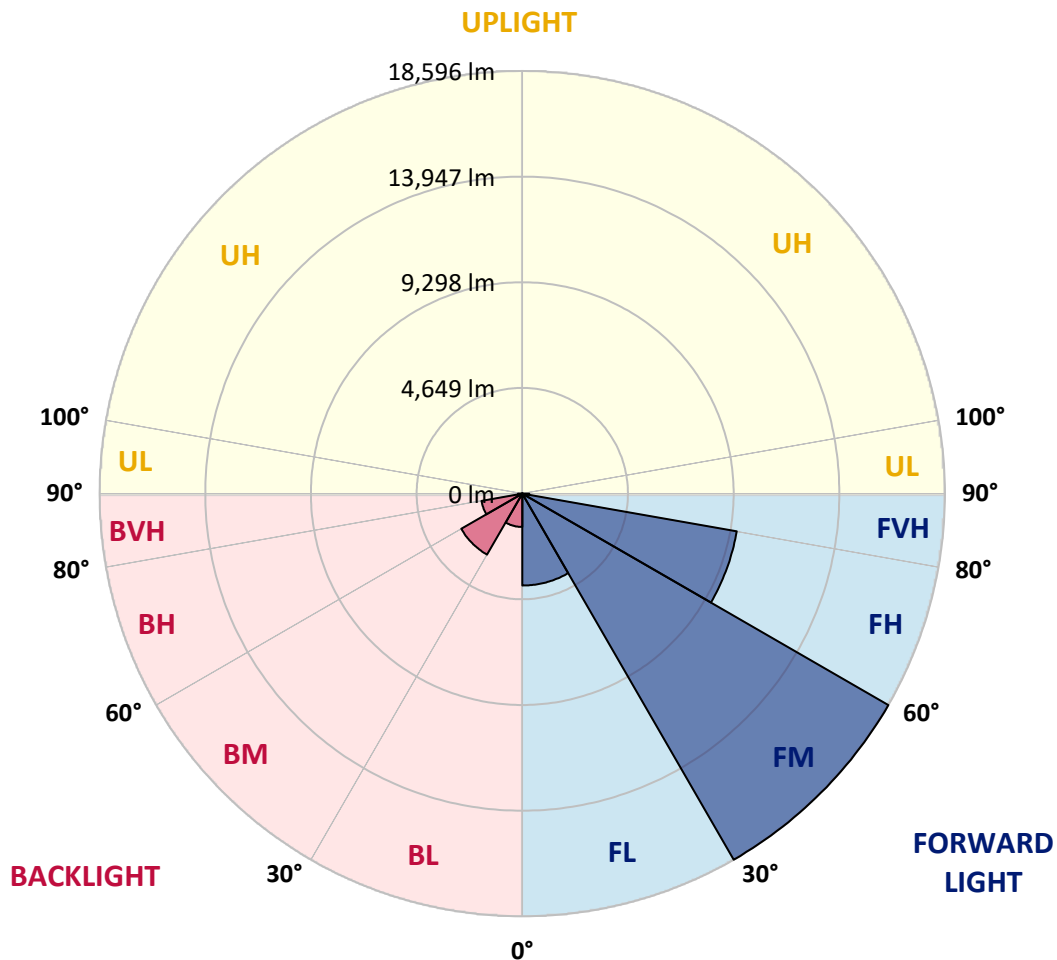
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4042.1	10.3			
FM (30°-60°)	18595.8	47.6			
FH (60°-80°)	9580.8	24.5			G4/12000
FVH (80°-90°)	306.4	0.8			G3/500
BL (0°-30°)	1467.4	3.8	B3/2500		
BM (30°-60°)	3099.1	7.9	B3/5000		
BH (60°-80°)	1822.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	183.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





REPORT NUMBER: P455546

CATALOG NUMBER: GALN-SA6D-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7
2.5°	4826.6	4794.8	4760.9	4667.6	4567.9	4455.5	4294.3	4139.5	3933.8	3927.5	3774.8
5°	6164.8	6143.6	5993.0	5906.1	5674.9	5367.4	5106.6	4701.5	4326.2	4281.6	3984.7
7.5°	7394.8	7312.1	7254.8	7097.9	6868.8	6474.4	5969.7	5422.5	4794.8	4735.4	4243.4
10°	8321.5	8313.0	8283.3	8147.6	7975.8	7583.5	7023.6	6239.0	5388.6	5272.0	4557.3
12.5°	9014.9	9021.3	9017.1	9014.9	8891.9	8559.0	7952.5	7125.4	5988.8	5906.1	4919.9
15°	9470.9	9534.5	9560.0	9666.0	9676.6	9453.9	8932.2	7982.2	6665.2	6542.2	5310.1
17.5°	9772.0	9803.8	9922.6	10102.8	10249.2	10208.9	9744.5	8775.3	7356.6	7150.9	5715.2
20°	10060.4	10115.6	10206.8	10452.8	10711.5	10830.2	10503.7	9587.5	8041.6	7910.1	6162.7
22.5°	10660.6	10739.0	10770.9	10896.0	11116.5	11326.5	11178.0	10365.8	8792.3	8614.1	6637.7
25°	11676.4	11759.1	11670.0	11640.3	11712.4	11816.3	11784.5	11099.6	9500.6	9246.1	7087.3
27.5°	12999.7	13010.3	12836.4	12671.0	12492.8	12439.8	12342.3	11750.6	10115.6	9903.5	7539.0
30°	14420.5	14369.6	14081.2	13782.2	13481.1	13184.2	12904.2	12378.3	10800.5	10556.7	7982.2
32.5°	15739.6	15712.0	15391.8	14927.4	14418.4	14138.5	13572.3	13012.4	11534.3	11298.9	8438.1
35°	16727.8	16768.1	16416.1	15909.2	15353.6	15105.5	14390.8	13678.3	12293.5	12036.9	8934.4
37.5°	17429.7	17408.5	17096.8	16657.8	16170.1	15953.8	15347.2	14405.7	13109.9	12863.9	9477.2
40°	17680.0	17667.3	17436.1	17115.9	16806.3	16729.9	16348.2	15190.3	14045.2	13756.7	10130.4
42.5°	17520.9	17548.5	17395.8	17308.9	17251.6	17306.7	17342.8	16218.8	15065.2	14800.1	10838.7
45°	17033.2	17018.3	16997.1	17139.2	17461.6	17824.2	18326.8	17190.1	16174.3	15962.2	11788.8
47.5°	16161.6	16267.6	16320.6	16713.0	17417.0	18275.9	19459.2	18492.2	17783.9	17599.4	13237.2
50°	14942.2	15027.0	15340.9	16038.6	17088.3	18445.5	20566.2	20621.3	20468.7	20123.0	14810.7
52.5°	13037.8	13169.3	13816.1	15094.9	16413.9	18375.6	21236.3	22447.2	22648.7	22390.0	16360.9
55°	10906.6	11091.1	11773.9	13451.4	15485.1	17993.8	21698.6	23505.4	24309.2	24069.5	17853.9
57.5°	8819.8	9014.9	9716.9	11341.3	13864.9	17149.8	22001.9	24684.5	26569.8	26258.1	19711.6
60°	6610.1	6813.7	7416.0	9089.2	11557.6	15499.9	21796.2	25706.7	28828.3	28694.7	21571.4
62.5°	4264.7	4489.4	5013.3	6398.0	8883.5	13245.7	20695.6	26270.8	30783.6	30622.4	22928.6
65°	2597.8	2623.3	2911.7	3972.0	6079.9	10255.5	18178.3	25522.2	31814.2	31765.4	23342.2
67.5°	1679.6	1719.9	1851.3	2379.4	3645.4	7123.3	14535.0	23051.6	31211.9	31195.0	22487.5
70°	1418.7	1431.4	1490.8	1605.3	2118.5	4319.8	10206.8	19113.5	28923.7	28923.7	20432.6
72.5°	1268.2	1285.1	1306.3	1342.4	1512.0	2447.2	6090.5	14878.6	24972.9	25138.4	17391.6
75°	1151.5	1147.3	1160.0	1166.4	1289.4	1599.0	3149.2	11004.1	19319.3	18988.4	12594.6
77.5°	986.1	992.5	986.1	1013.7	1138.8	1217.3	1599.0	7384.2	11708.2	11279.8	6321.7
80°	810.1	820.7	831.3	848.3	973.4	924.6	960.7	3365.5	4330.4	4239.2	1953.1
82.5°	608.6	623.5	640.4	680.7	765.6	610.8	606.5	1437.8	1562.9	1431.4	718.9
85°	246.0	290.5	439.0	479.3	481.4	335.1	373.2	600.1	638.3	623.5	282.0
87.5°	57.3	67.9	142.1	214.2	197.2	125.1	137.8	195.1	222.7	205.7	95.4
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°	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7
2.5°	3704.8	3630.6	3503.3	3405.8	3335.8	3274.3	3236.1	3212.8	3204.3	3202.2	3204.3
5°	3829.9	3698.4	3497.0	3369.7	3299.8	3259.5	3236.1	3234.0	3236.1	3238.3	3231.9
7.5°	4001.7	3813.0	3550.0	3431.2	3378.2	3348.5	3337.9	3333.7	3335.8	3333.7	3333.7
10°	4230.7	3972.0	3653.9	3530.9	3486.4	3452.4	3435.5	3424.9	3416.4	3407.9	3403.7
12.5°	4483.1	4148.0	3766.3	3647.5	3583.9	3530.9	3492.7	3465.2	3446.1	3427.0	3422.8
15°	4765.1	4334.6	3891.4	3726.0	3634.8	3556.4	3490.6	3446.1	3412.1	3384.6	3382.5
17.5°	5034.5	4510.7	3976.2	3762.1	3628.5	3518.2	3431.2	3369.7	3327.3	3291.3	3287.0
20°	5322.9	4678.2	4014.4	3738.7	3564.8	3431.2	3316.7	3242.5	3193.7	3153.4	3147.1
22.5°	5613.4	4820.3	4010.2	3664.5	3454.6	3297.6	3176.8	3098.3	3041.0	3000.7	2985.9
25°	5891.2	4934.8	3957.2	3545.8	3301.9	3138.6	3015.6	2943.5	2892.6	2843.8	2843.8
27.5°	6141.4	5002.6	3857.5	3401.5	3144.9	2973.2	2875.6	2809.9	2763.2	2731.4	2712.3
30°	6387.4	5034.5	3721.8	3219.2	2979.5	2833.2	2754.7	2716.6	2674.2	2638.1	2633.9
32.5°	6608.0	5028.1	3552.1	3041.0	2822.6	2718.7	2686.9	2657.2	2612.7	2561.8	2549.0
35°	6822.2	4985.7	3350.6	2845.9	2691.1	2650.8	2659.3	2616.9	2536.3	2472.7	2462.1
37.5°	7055.5	4909.3	3130.1	2686.9	2580.8	2619.0	2640.2	2546.9	2415.4	2315.8	2292.4
40°	7324.8	4822.4	2901.1	2527.8	2493.9	2589.3	2589.3	2417.6	2237.3	2175.8	2158.8
42.5°	7640.8	4750.3	2710.2	2394.2	2421.8	2517.2	2506.6	2245.8	2171.6	2139.8	2131.3
45°	8141.2	4724.8	2513.0	2277.6	2362.4	2432.4	2345.5	2186.4	2144.0	2118.5	2110.1
47.5°	8932.2	4754.5	2339.1	2190.6	2294.6	2347.6	2165.2	2146.1	2116.4	2080.4	2076.1
50°	9666.0	4727.0	2216.1	2141.9	2235.2	2245.8	2091.0	2097.3	2080.4	2040.1	2031.6
52.5°	10266.1	4640.0	2137.6	2116.4	2184.3	2067.6	2021.0	2044.3	2038.0	1987.1	1978.6
55°	10925.7	4587.0	2099.5	2116.4	2150.4	1912.8	1955.3	1989.2	1980.7	1944.6	1942.5
57.5°	11725.2	4597.6	2071.9	2122.8	2116.4	1834.4	1889.5	1929.8	1927.7	1917.1	1917.1
60°	12543.7	4601.8	2029.5	2120.7	2076.1	1772.9	1821.7	1878.9	1883.1	1889.5	1889.5
62.5°	12815.2	4417.3	1946.8	2082.5	1987.1	1713.5	1758.0	1836.5	1832.3	1849.2	1851.3
65°	12308.3	3906.3	1823.8	1995.5	1872.5	1671.1	1709.3	1781.4	1758.0	1802.6	1811.0
67.5°	11203.5	3231.9	1632.9	1838.6	1745.3	1626.5	1677.4	1705.0	1662.6	1749.5	1751.7
70°	9683.0	2523.6	1391.2	1615.9	1601.1	1579.9	1652.0	1609.6	1550.2	1656.2	1635.0
72.5°	8096.7	1927.7	1111.2	1321.2	1408.1	1509.9	1607.5	1486.6	1403.9	1435.7	1397.5
75°	6082.1	1425.1	892.8	1034.9	1172.7	1410.2	1567.2	1338.1	1210.9	1181.2	1172.7
77.5°	3100.4	931.0	668.0	774.0	880.1	1274.5	1512.0	1164.2	1003.1	956.4	935.2
80°	1107.0	578.9	470.8	534.4	593.8	1096.4	1321.2	962.8	778.3	769.8	778.3
82.5°	513.2	373.2	316.0	349.9	352.0	731.6	1007.3	718.9	591.7	899.2	759.2
85°	220.5	186.6	178.1	173.9	161.2	326.6	566.2	386.0	602.3	269.3	248.1
87.5°	65.7	74.2	65.7	48.8	36.1	36.1	57.3	21.2	14.8	10.6	10.6
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)