

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: P532132

Luminaire Tested: **GALN-SA7C-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34711 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

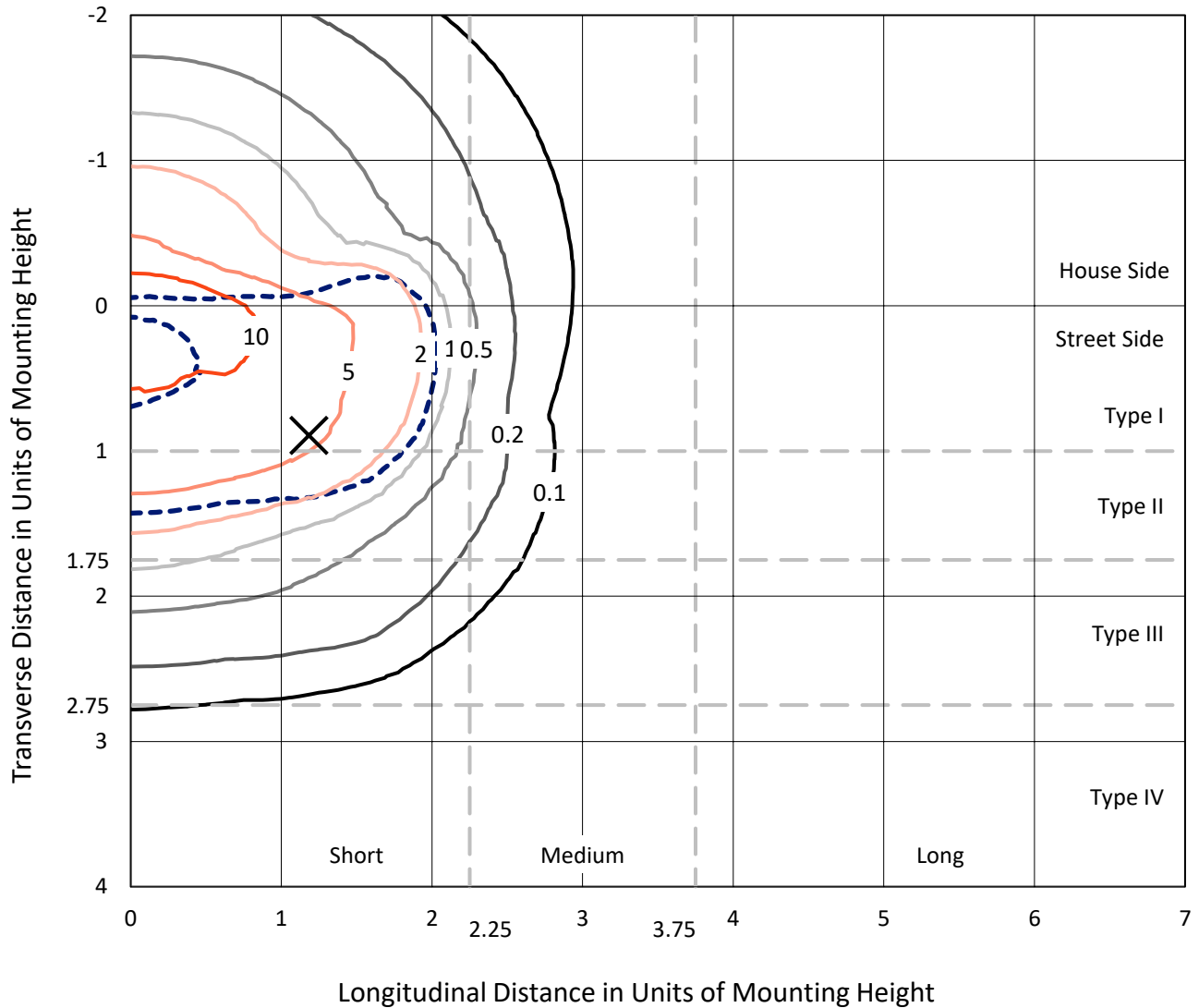
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

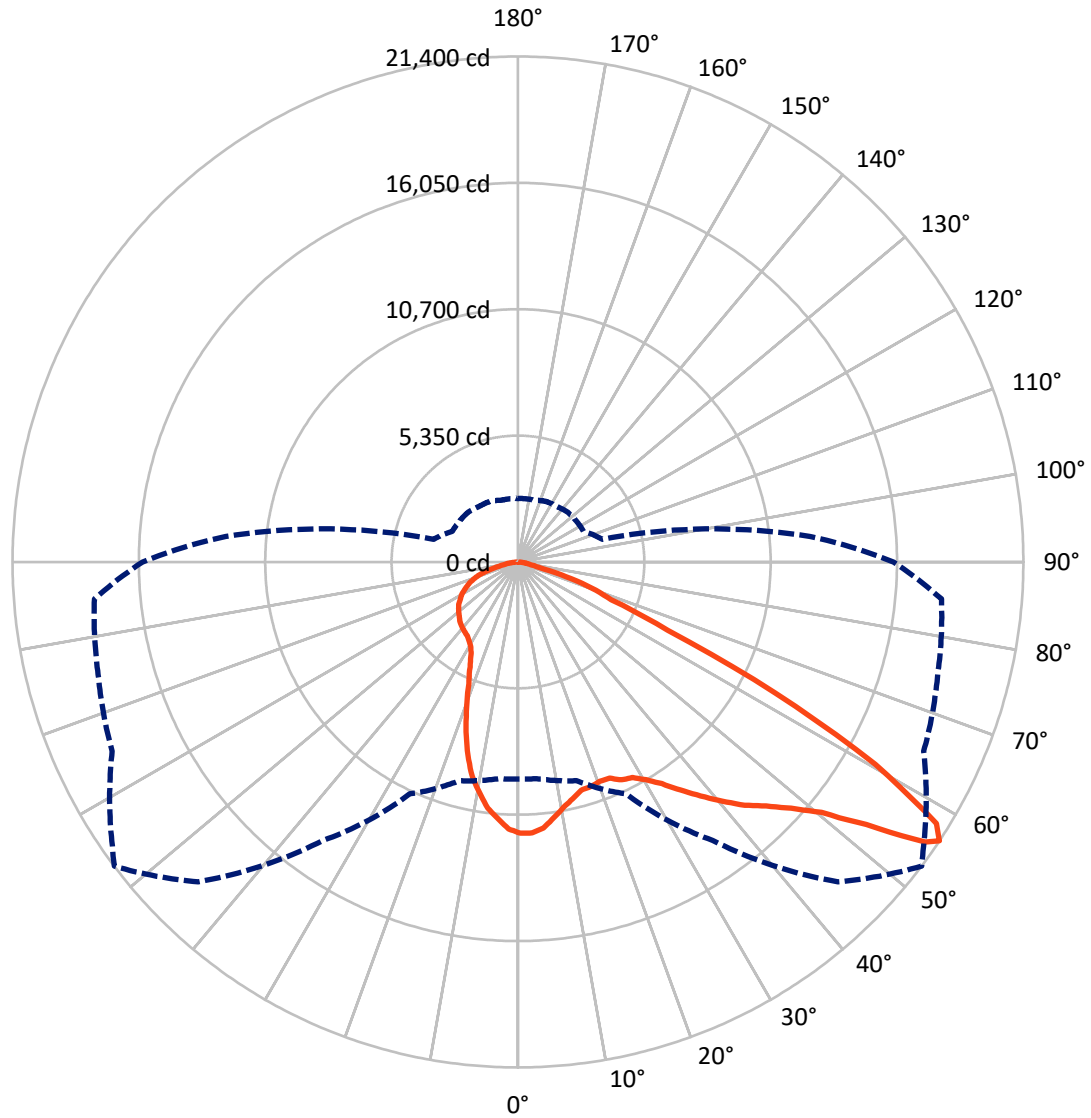
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - N/A

REPORT NUMBER: P532132
CATALOG NUMBER: GALN-SA7C-727-U-SL2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10129.4	0.0	10129.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	24581.6	0.0	24581.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	34711.0	0.0	34711.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1016.6	2.9
10°-20°	2539.1	7.3
20°-30°	3744.2	10.8
30°-40°	5349.7	15.4
40°-50°	7363.1	21.2
50°-60°	8701.2	25.1
60°-70°	4637.2	13.4
70°-80°	1176.4	3.4
80°-90°	183.4	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°	34711.0	100.0
0°-180°	34711.0	100.0

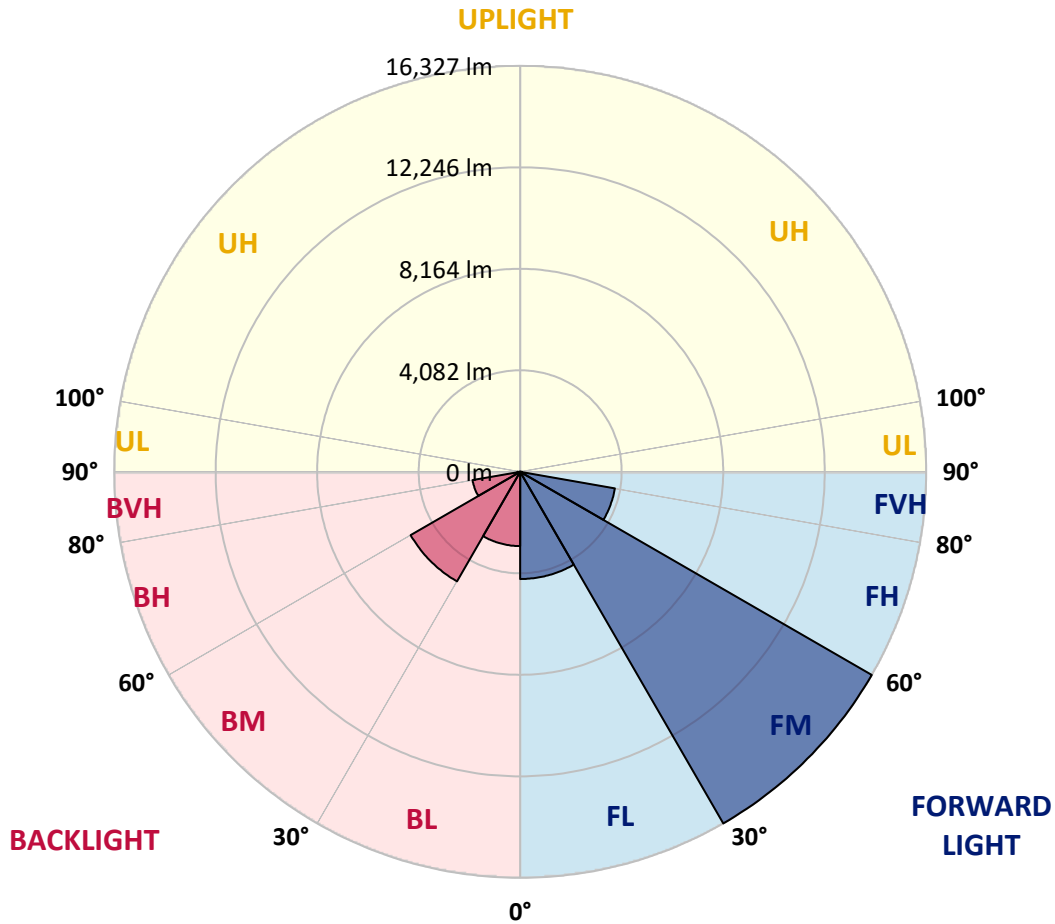


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4312.3	12.4			
FM (30°-60°)	16327.4	47.0			
FH (60°-80°)	3868.1	11.1			G2/5000
FVH (80°-90°)	73.7	0.2			G1/100
BL (0°-30°)	2987.6	8.6	B4/5000		
BM (30°-60°)	5086.7	14.7	B4/8500		
BH (60°-80°)	1945.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	109.7	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°	53°	55°	65°	75°	85°
0°	11483.8	11483.8	11483.8	11483.8	11483.8	11483.8	11483.8	11483.8	11483.8	11483.8	11483.8
2.5°	11341.3	11243.3	11301.2	11278.9	11461.5	11514.9	11488.2	11510.5	11612.9	11563.9	11461.5
5°	10597.7	10735.7	10762.4	10829.2	10936.1	11145.4	11310.1	11354.6	11403.6	11630.7	11608.4
7.5°	9920.8	10014.3	9965.4	10161.3	10392.8	10731.2	10931.6	10967.2	11417.0	11541.7	11635.2
10°	9493.4	9399.9	9622.5	9675.9	9938.6	10326.0	10566.5	10713.4	11123.1	11617.4	11675.2
12.5°	9097.1	9065.9	9199.5	9350.9	9644.8	10045.5	10290.4	10348.3	10980.6	11501.6	11773.2
15°	8803.2	8767.6	8901.1	9012.5	9355.3	9711.6	10023.2	10188.0	10824.8	11434.8	11688.6
17.5°	8571.6	8567.2	8642.9	8843.3	9195.0	9493.4	9996.5	10005.4	10744.6	11537.2	11759.8
20°	8558.3	8553.8	8567.2	8789.8	9110.4	9475.6	9911.9	9992.1	10744.6	11466.0	11764.3
22.5°	8669.6	8598.4	8678.5	8821.0	9052.5	9506.7	9943.1	10121.2	11002.9	11817.7	11964.7
25°	8847.7	8865.5	8910.0	8959.0	9092.6	9578.0	10219.2	10366.1	11305.7	12120.5	12240.7
27.5°	9172.8	9163.9	9181.7	9208.4	9324.2	9644.8	10330.5	10709.0	11938.0	12659.3	12539.1
30°	9649.2	9618.0	9689.3	9782.8	9675.9	9858.5	10700.1	10985.1	12525.7	13202.5	12873.0
32.5°	10081.1	10196.9	10330.5	10370.6	10241.4	10277.1	11189.9	11479.3	13015.5	13870.5	13282.7
35°	10619.9	10713.4	10891.5	11016.2	10994.0	10887.1	11857.8	12240.7	13723.5	14360.3	13714.6
37.5°	11145.4	11256.7	11550.6	11920.1	11715.3	11666.3	12570.2	12886.4	13941.7	14623.0	14030.8
40°	11991.4	11986.9	12494.6	12686.0	12868.6	12784.0	13309.4	13416.3	14057.5	14565.1	14039.7
42.5°	12984.4	12922.0	13438.5	13736.9	13972.9	13981.8	14079.7	14044.1	14110.9	14271.2	13946.2
45°	13928.4	14061.9	14582.9	15117.3	15353.2	15380.0	14729.9	14663.1	14204.4	14186.6	13768.1
47.5°	15081.6	15112.8	15540.3	16243.8	16791.5	16604.5	15571.4	15424.5	14614.1	14752.1	14066.4
50°	15148.4	15380.0	15762.9	16591.1	18274.3	18225.3	16662.4	16386.3	15273.1	15553.6	14899.1
52.5°	13750.2	13696.8	14151.0	15504.6	18163.0	19837.2	18470.2	17811.2	16689.1	16475.4	16248.3
55°	10477.4	10602.1	11002.9	12369.9	15771.8	19859.5	20932.6	20393.8	18203.0	17837.9	17575.2
56°	9190.6	9208.4	9586.9	10833.7	14391.4	19151.5	21400.1	20963.8	18955.6	18399.0	17998.2
57.5°	7618.7	7516.3	7712.2	8393.5	12147.2	17655.3	20888.1	21315.5	19837.2	19004.5	18447.9
60°	5997.9	5975.7	5895.5	6020.2	7676.6	13300.5	17388.2	18350.0	19748.2	18434.6	17668.7
62.5°	4898.1	4786.8	4947.1	5125.2	5334.5	8251.0	12218.5	12784.0	15678.3	14716.5	13273.8
65°	3798.2	3744.8	3945.2	4524.0	4648.7	5240.9	6959.7	7396.1	9257.4	9092.6	8006.1
67.5°	2613.8	2622.7	2796.4	3678.0	4310.3	4256.9	4261.3	4488.4	4831.3	3589.0	3125.9
70°	1656.4	1652.0	1745.5	2368.9	3468.7	3504.4	3326.2	3259.4	3090.2	1870.2	1981.5
72.5°	1064.2	1033.0	1082.0	1309.1	1794.5	2075.0	2137.3	2177.4	1790.0	1469.4	1594.1
75°	601.1	570.0	552.1	610.0	708.0	819.3	899.5	926.2	1037.5	1113.2	1180.0
77.5°	182.6	164.8	200.4	267.2	351.8	472.0	574.4	592.2	699.1	788.1	854.9
80°	80.2	89.1	124.7	178.1	249.4	334.0	405.2	431.9	503.2	570.0	587.8
82.5°	49.0	53.4	84.6	120.2	173.7	236.0	289.4	298.3	369.6	423.0	436.4
85°	17.8	22.3	44.5	71.2	111.3	151.4	151.4	164.8	151.4	151.4	164.8
87.5°	0.0	0.0	4.5	8.9	8.9	13.4	17.8	17.8	22.3	26.7	31.2
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°	11483.8	11483.8	11483.8	11483.8	11483.8	11483.8	11483.8	11483.8	11483.8	11483.8	11483.8
2.5°	11514.9	11492.7	11457.1	11327.9	11314.6	11274.5	11051.8	11016.2	11051.8	10945.0	10953.9
5°	11492.7	11559.5	11292.3	11163.2	10922.7	10749.1	10548.7	10446.3	10263.7	10147.9	10277.1
7.5°	11590.6	11563.9	11230.0	10949.4	10588.8	10147.9	9796.2	9595.8	9275.2	9186.1	9252.9
10°	11555.0	11412.5	11020.7	10651.1	9969.8	9582.4	9012.5	8460.3	8157.5	8001.7	7979.4
12.5°	11506.0	11466.0	10811.4	10174.6	9457.7	8642.9	7841.4	7320.4	6826.1	6612.4	6643.6
15°	11563.9	11225.5	10419.5	9613.6	8660.7	7592.0	6728.2	6055.8	5712.9	5574.9	5574.9
17.5°	11537.2	11109.7	10232.5	8985.7	7779.0	6514.4	5566.0	5160.8	5018.3	5018.3	5058.4
20°	11550.6	11185.4	9854.0	8357.9	6737.1	5485.8	4795.7	4648.7	4711.1	4733.3	4755.6
22.5°	11626.3	10936.1	9484.5	7667.7	5770.8	4693.2	4354.8	4359.3	4470.6	4590.8	4568.6
25°	11719.8	10838.1	9034.7	6982.0	5031.7	4305.9	4199.0	4185.6	4270.2	4332.6	4341.5
27.5°	11639.6	10668.9	8576.1	6127.1	4426.1	4047.6	4025.3	4034.2	4061.0	4185.6	4145.6
30°	11902.3	10717.9	8001.7	5410.1	4092.1	3963.0	3936.3	3922.9	3963.0	3998.6	3967.4
32.5°	12227.4	10544.2	7574.2	4720.0	3927.4	3900.7	3847.2	3829.4	3851.7	3816.0	3833.9
35°	12369.9	10513.1	7017.6	4225.7	3798.2	3776.0	3744.8	3740.4	3744.8	3713.6	3686.9
37.5°	12450.0	10660.0	6380.9	3998.6	3718.1	3740.4	3669.1	3660.2	3580.0	3597.9	3611.2
40°	12588.1	10432.9	5864.3	3780.4	3669.1	3624.6	3562.2	3548.9	3495.4	3464.3	3495.4
42.5°	12387.7	10366.1	5356.7	3686.9	3597.9	3548.9	3504.4	3428.7	3410.8	3384.1	3366.3
45°	12227.4	9983.2	4902.5	3571.1	3513.3	3486.5	3401.9	3321.8	3255.0	3281.7	3241.6
47.5°	12347.6	9849.6	4452.8	3473.2	3397.5	3366.3	3281.7	3219.4	3152.6	3121.4	3112.5
50°	12828.5	10098.9	4074.3	3401.9	3299.5	3281.7	3170.4	3099.1	3036.8	3014.5	3023.5
52.5°	13977.3	10780.2	3816.0	3255.0	3206.0	3125.9	3063.5	2974.5	2934.4	2863.1	2907.7
55°	15433.4	11889.0	3749.3	3117.0	3090.2	3019.0	2934.4	2867.6	2791.9	2734.0	2720.7
56°	15900.9	12418.9	3695.8	3063.5	3019.0	2978.9	2867.6	2827.5	2707.3	2693.9	2685.0
57.5°	16279.4	12886.4	3704.7	2961.1	2916.6	2881.0	2814.2	2716.2	2636.1	2587.1	2609.3
60°	15424.5	12062.6	3535.5	2805.3	2796.4	2729.6	2636.1	2591.5	2493.6	2435.7	2422.3
62.5°	11466.0	8188.7	2867.6	2604.9	2600.4	2529.2	2422.3	2373.3	2355.5	2275.4	2275.4
65°	6603.5	5134.1	2480.2	2440.1	2404.5	2333.3	2226.4	2186.3	2141.8	2115.1	2092.8
67.5°	2818.6	2662.8	2253.1	2248.7	2208.6	2119.5	2012.7	1950.3	1892.4	1839.0	1865.7
70°	2043.8	2075.0	2034.9	2012.7	1963.7	1852.4	1758.9	1683.2	1594.1	1558.5	1585.2
72.5°	1620.8	1687.6	1745.5	1749.9	1692.1	1562.9	1460.5	1358.1	1260.1	1211.2	1233.4
75°	1229.0	1273.5	1331.4	1344.7	1260.1	1171.1	1073.1	966.3	890.6	832.7	841.6
77.5°	886.1	877.2	930.6	921.7	881.7	819.3	730.3	632.3	547.7	494.3	498.7
80°	605.6	618.9	650.1	645.7	596.7	556.6	489.8	409.7	347.3	302.8	293.9
82.5°	423.0	445.3	472.0	449.7	409.7	369.6	320.6	262.7	213.7	178.1	169.2
85°	151.4	173.7	200.4	213.7	227.1	218.2	182.6	146.9	106.9	89.1	84.6
87.5°	31.2	35.6	40.1	40.1	40.1	35.6	31.2	31.2	26.7	13.4	13.4
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)