

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: P532846

Luminaire Tested: **GALN-SA8B-727-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532846  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-727-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32763 lumens  
Efficiency: N/A  
Efficacy: 100.8 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

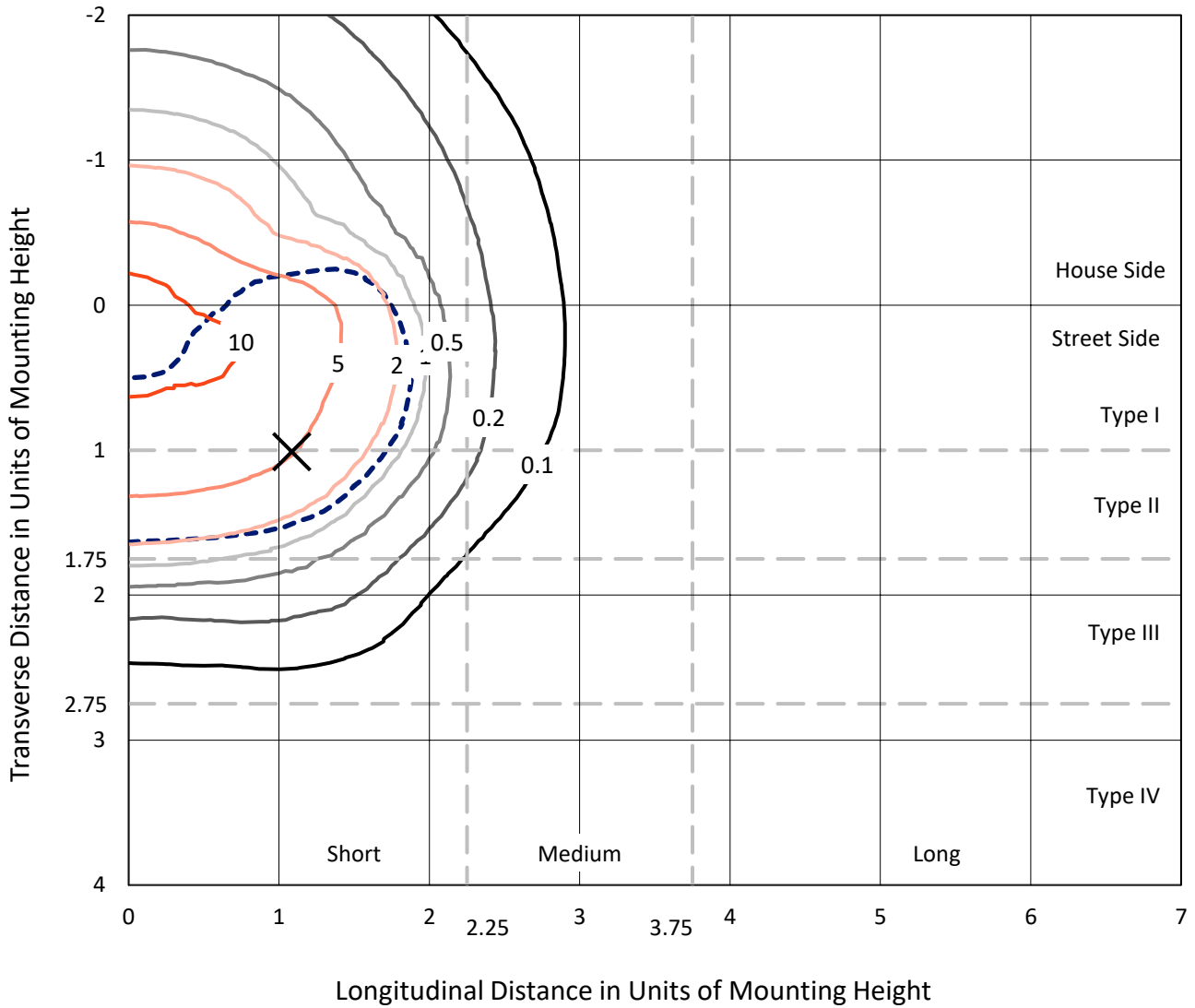
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

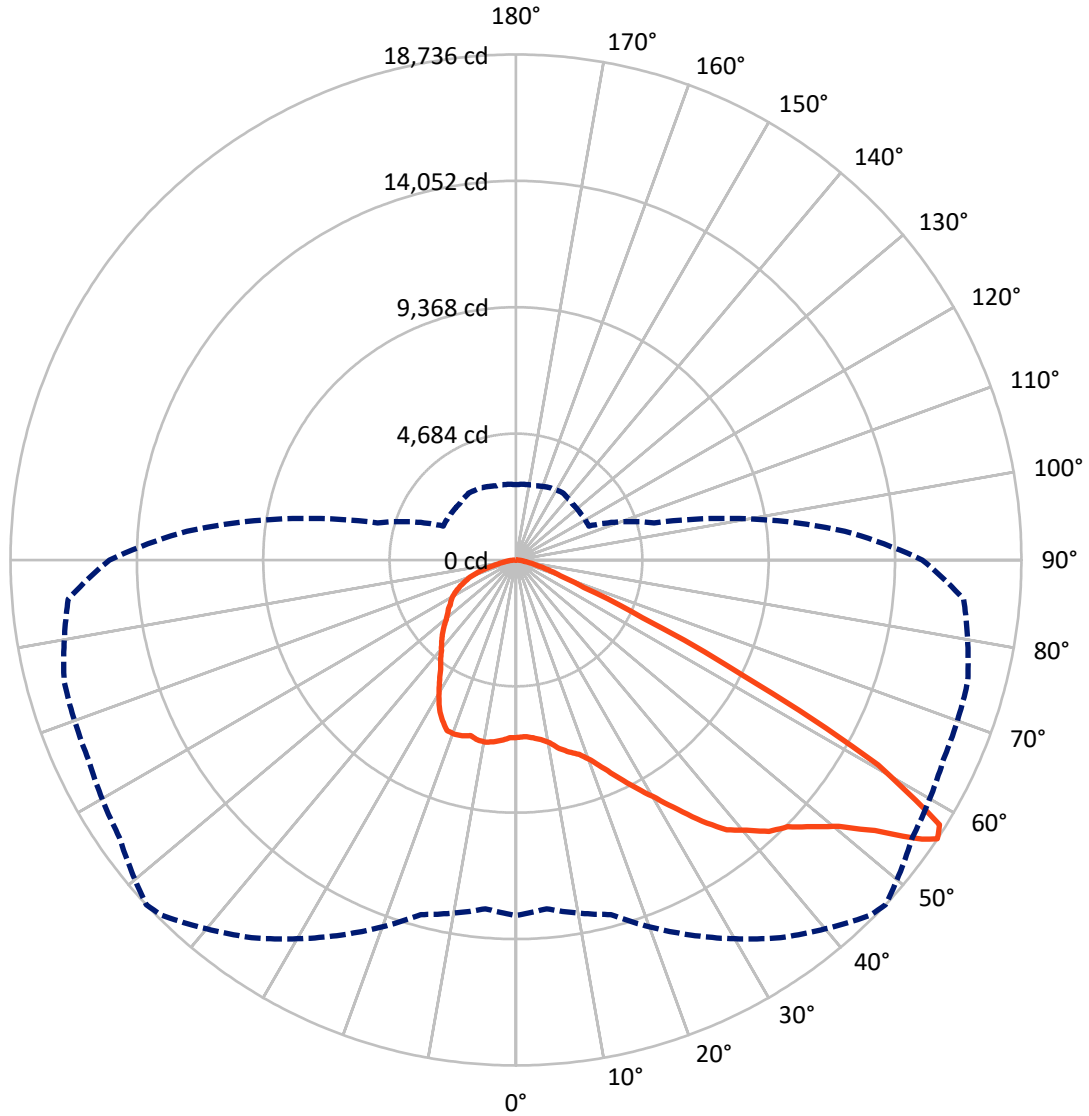
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10382.2	0.0	10382.2
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	22380.8	0.0	22380.8
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	32763.0	0.0	32763.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	641.2	2.0
10°-20°	2022.8	6.2
20°-30°	3575.8	10.9
30°-40°	5370.7	16.4
40°-50°	7370.8	22.5
50°-60°	8781.3	26.8
60°-70°	3757.9	11.5
70°-80°	1063.5	3.2
80°-90°	179.0	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°	32763.0	100.0
0°-180°	32763.0	100.0

**Coefficient of Utilization**



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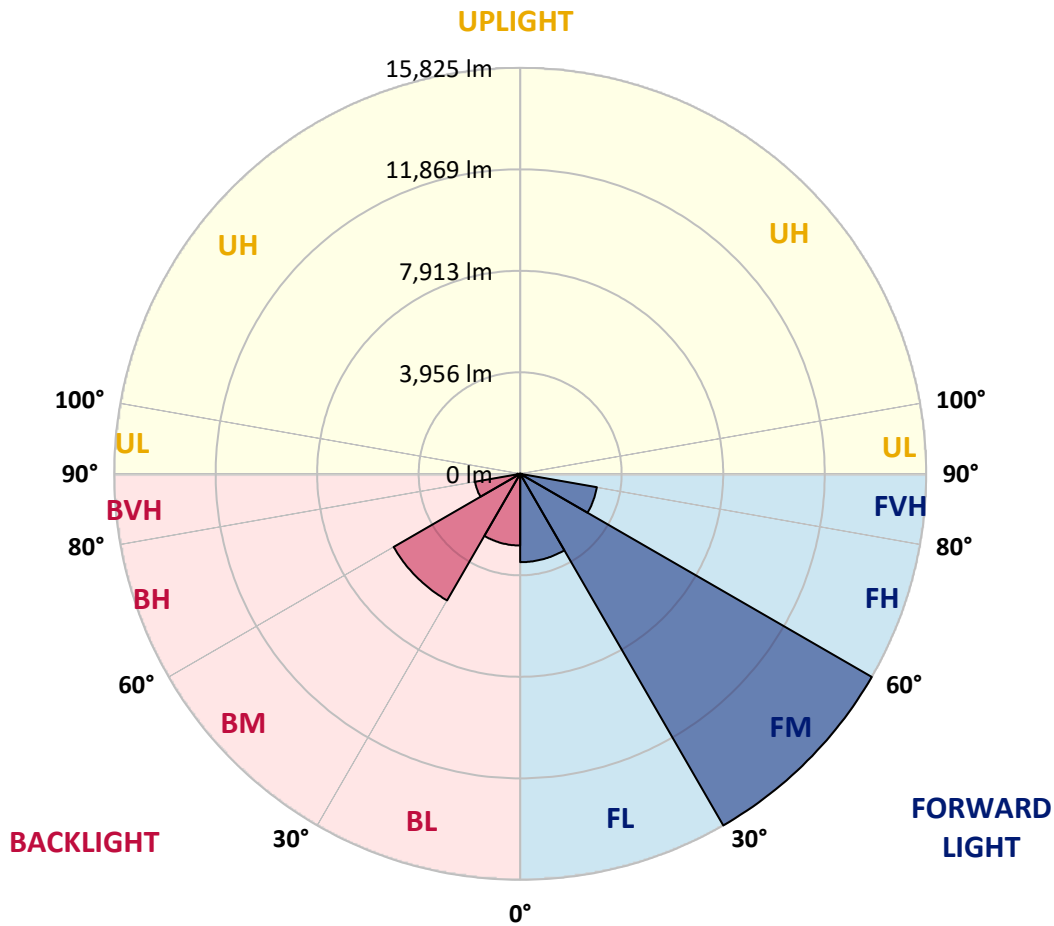
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3444.5	10.5			
FM (30°-60°)	15825.3	48.3			
FH (60°-80°)	3035.0	9.3			G2/5000
FVH (80°-90°)	76.0	0.2			G1/100
BL (0°-30°)	2795.3	8.5	B4/5000		
BM (30°-60°)	5697.6	17.4	B4/8500		
BH (60°-80°)	1786.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	103.0	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°	47°	55°	65°	75°	85°
0°	6581.1	6581.1	6581.1	6581.1	6581.1	6581.1	6581.1	6581.1	6581.1	6581.1	6581.1
2.5°	6556.0	6543.5	6535.1	6602.0	6576.9	6581.1	6556.0	6581.1	6597.8	6560.2	6614.5
5°	6543.5	6581.1	6547.7	6568.6	6622.9	6606.2	6622.9	6673.0	6660.5	6647.9	6631.2
7.5°	6660.5	6664.7	6689.7	6698.1	6714.8	6698.1	6723.2	6769.1	6756.6	6685.6	6693.9
10°	6827.6	6836.0	6840.2	6886.1	6915.4	6919.5	6890.3	6848.5	6844.3	6940.4	6873.6
12.5°	7019.8	6998.9	7049.1	7065.8	7099.2	7136.8	7174.4	7086.7	7141.0	7145.2	7065.8
15°	7299.8	7320.7	7262.2	7262.2	7274.7	7278.9	7383.4	7341.6	7333.2	7287.3	7320.7
17.5°	7717.6	7575.6	7571.4	7512.9	7504.5	7538.0	7575.6	7609.0	7721.8	7629.9	7450.2
20°	8022.7	8056.1	7934.9	7863.9	7876.4	7951.6	7914.0	8064.4	8143.8	7993.4	7817.9
22.5°	8561.7	8448.9	8478.1	8319.3	8331.9	8411.3	8407.1	8561.7	8607.6	8369.5	8114.6
25°	8925.2	8896.0	8921.0	8795.7	8812.4	8875.1	8975.4	9230.2	9155.0	8891.8	8302.6
27.5°	9455.9	9397.4	9376.5	9330.5	9313.8	9480.9	9597.9	9869.5	9815.2	9430.8	8636.9
30°	9999.1	9961.5	9982.4	9794.3	9861.2	10216.4	10249.8	10621.7	10596.6	9919.7	9008.8
32.5°	10375.1	10396.0	10433.6	10329.2	10625.9	10910.0	11022.8	11444.8	11465.7	10759.6	9727.5
35°	10981.0	10910.0	10930.9	11052.1	11189.9	11708.1	11891.9	12171.9	12347.4	11641.2	10416.9
37.5°	11361.3	11436.5	11348.7	11540.9	11900.3	12522.9	12690.0	12978.3	13162.2	12510.3	11357.1
40°	11954.6	11833.4	11896.1	12034.0	12401.7	13212.3	13166.4	13463.0	13521.5	13249.9	12234.6
42.5°	12593.9	12535.4	12447.7	12761.0	13070.3	13659.4	13751.3	13613.5	13910.1	13972.8	13488.1
45°	13358.6	13429.6	13442.1	13450.5	13722.1	14236.0	14110.7	13989.5	14332.2	14787.6	14265.3
47.5°	14068.9	13843.3	14006.2	14231.9	14616.3	14620.5	14766.7	14478.4	14841.9	15247.2	14967.3
50°	14307.1	14198.4	14415.7	14841.9	15435.3	15497.9	15514.7	15105.2	15293.2	15614.9	15209.6
52.5°	14215.2	14177.6	14733.3	15393.5	16262.6	16580.2	16663.7	16158.1	16262.6	16116.4	15744.5
55°	13776.4	13889.2	14449.2	15794.6	17127.6	18109.5	18268.3	17629.0	16964.6	17077.4	16667.9
56°	13174.7	12978.3	13605.1	15339.2	17089.9	18606.7	18736.3	17938.2	17486.9	17340.7	16659.6
57.5°	11177.4	10922.5	11745.7	13801.5	16141.4	18418.7	18514.8	18067.7	17399.2	17102.5	15443.6
60°	6543.5	6668.8	7713.5	9518.6	12451.8	15101.0	15422.7	15748.7	15301.6	13972.8	11495.0
62.5°	3158.9	3079.5	3827.5	5457.1	7588.1	9639.7	9543.6	10458.7	10960.1	9928.0	7258.0
65°	1654.7	1646.3	2089.2	2979.2	4170.1	5064.3	5152.1	5645.1	6334.6	5114.4	3685.4
67.5°	1215.9	1249.4	1470.8	2093.4	2682.6	2736.9	2724.4	2970.9	3037.7	2569.8	2264.7
70°	952.7	969.4	1132.4	1592.0	1997.3	1788.4	1750.8	1780.0	1976.4	2060.0	1959.7
72.5°	689.4	706.2	844.1	1073.9	1249.4	1220.1	1245.2	1408.1	1650.5	1738.2	1633.8
75°	459.6	472.2	547.4	656.0	739.6	798.1	844.1	1032.1	1257.7	1307.9	1257.7
77.5°	317.6	330.1	380.2	463.8	472.2	509.8	526.5	614.2	752.1	814.8	781.4
80°	179.7	179.7	204.7	238.2	292.5	342.6	351.0	422.0	484.7	526.5	534.8
82.5°	83.6	87.7	108.6	146.2	192.2	238.2	246.5	292.5	338.5	380.2	392.8
85°	41.8	46.0	62.7	87.7	117.0	142.1	137.9	142.1	150.4	142.1	146.2
87.5°	12.5	12.5	16.7	20.9	16.7	20.9	20.9	25.1	29.2	33.4	37.6
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°	6581.1	6581.1	6581.1	6581.1	6581.1	6581.1	6581.1	6581.1	6581.1	6581.1	6581.1
2.5°	6618.7	6631.2	6547.7	6627.1	6597.8	6593.6	6652.1	6643.8	6664.7	6656.3	6606.2
5°	6622.9	6593.6	6681.4	6602.0	6639.6	6719.0	6664.7	6790.0	6727.3	6769.1	6677.2
7.5°	6752.4	6760.8	6744.1	6777.5	6760.8	6798.4	6769.1	6798.4	6748.2	6752.4	6836.0
10°	6865.2	6840.2	6869.4	6827.6	6856.9	6844.3	6777.5	6756.6	6773.3	6752.4	6806.7
12.5°	7074.2	7028.2	7007.3	6957.2	6923.7	6798.4	6693.9	6635.4	6714.8	6727.3	6702.3
15°	7287.3	7291.4	7195.3	7082.5	6873.6	6685.6	6710.6	6731.5	6731.5	6764.9	6702.3
17.5°	7421.0	7421.0	7333.2	7107.6	6894.5	6785.8	6760.8	6693.9	6635.4	6627.1	6622.9
20°	7655.0	7583.9	7383.4	7103.4	6886.1	6836.0	6647.9	6489.2	6368.0	6326.2	6322.0
22.5°	7922.4	7742.7	7462.7	7111.8	6873.6	6802.6	6451.6	6213.4	5996.1	5904.2	5916.7
25°	8168.9	7880.6	7508.7	7074.2	6827.6	6485.0	6092.2	5762.1	5536.5	5461.3	5423.7
27.5°	8340.2	8026.8	7508.7	7107.6	6656.3	6129.8	5728.7	5306.7	5110.3	5060.1	5068.5
30°	8570.0	8210.7	7638.2	7036.5	6313.7	5670.2	5189.7	4913.9	4796.9	4755.1	4784.3
32.5°	9109.1	8691.2	7817.9	6865.2	5908.4	5210.6	4822.0	4667.4	4496.0	4412.5	4383.2
35°	9694.1	9146.7	7993.4	6576.9	5452.9	4792.7	4550.4	4408.3	4203.5	4111.6	4128.3
37.5°	10521.4	9731.7	8005.9	6100.6	4959.8	4558.7	4337.3	4115.8	3948.7	3806.6	3764.8
40°	11637.0	10529.7	7976.7	5599.2	4562.9	4282.9	4120.0	3844.2	3656.2	3555.9	3576.8
42.5°	12619.0	11465.7	7855.5	5030.9	4203.5	4094.9	3911.0	3639.4	3455.6	3351.1	3342.8
45°	13446.3	12155.2	7625.7	4546.2	3902.7	3886.0	3672.9	3464.0	3317.7	3221.6	3263.4
47.5°	14211.0	12710.9	7278.9	4061.5	3626.9	3660.3	3455.6	3326.1	3234.1	3146.4	3142.2
50°	14486.8	12702.6	6973.9	3660.3	3405.5	3388.7	3380.4	3242.5	3146.4	3071.2	3104.6
52.5°	14946.4	12844.6	6643.8	3384.6	3204.9	3209.1	3238.3	3138.0	3029.4	2983.4	3025.2
55°	15606.6	12865.5	5916.7	3062.8	3037.7	3067.0	3067.0	3000.1	2908.2	2870.6	2849.7
56°	15067.6	12242.9	5306.7	2979.2	2954.2	2954.2	3033.6	2958.4	2845.5	2816.3	2791.2
57.5°	13897.6	10726.1	4441.7	2879.0	2841.4	2899.9	2941.6	2862.3	2757.8	2716.0	2741.1
60°	9585.4	7258.0	3338.6	2661.7	2661.7	2757.8	2791.2	2674.2	2628.3	2624.1	2590.7
62.5°	5595.0	4228.6	2611.5	2465.3	2473.7	2553.0	2578.1	2511.3	2452.8	2523.8	2557.2
65°	2966.7	2523.8	2239.7	2256.4	2260.6	2323.2	2431.9	2427.7	2423.5	2444.4	2448.6
67.5°	2147.7	2097.6	2034.9	2018.2	2026.6	2072.5	2181.2	2264.7	2260.6	2210.4	2172.8
70°	1913.7	1842.7	1805.1	1809.3	1775.9	1830.2	1917.9	1972.2	1876.1	1817.6	1792.6
72.5°	1592.0	1571.1	1546.0	1550.2	1483.4	1470.8	1370.5	1370.5	1345.5	1328.8	1358.0
75°	1215.9	1207.6	1220.1	1199.2	1128.2	1053.0	994.5	940.2	856.6	823.2	806.4
77.5°	768.8	793.9	823.2	777.2	747.9	693.6	635.1	580.8	514.0	476.3	476.3
80°	522.3	543.2	564.1	555.7	522.3	472.2	426.2	367.7	321.7	292.5	288.3
82.5°	397.0	413.7	442.9	409.5	376.1	334.3	296.7	254.9	213.1	179.7	179.7
85°	142.1	163.0	179.7	196.4	208.9	213.1	183.9	150.4	121.2	96.1	91.9
87.5°	37.6	41.8	46.0	41.8	41.8	41.8	46.0	41.8	37.6	29.2	29.2
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)