

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: P532842

Luminaire Tested: **GALN-SA8B-727-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532842  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
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-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32232 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

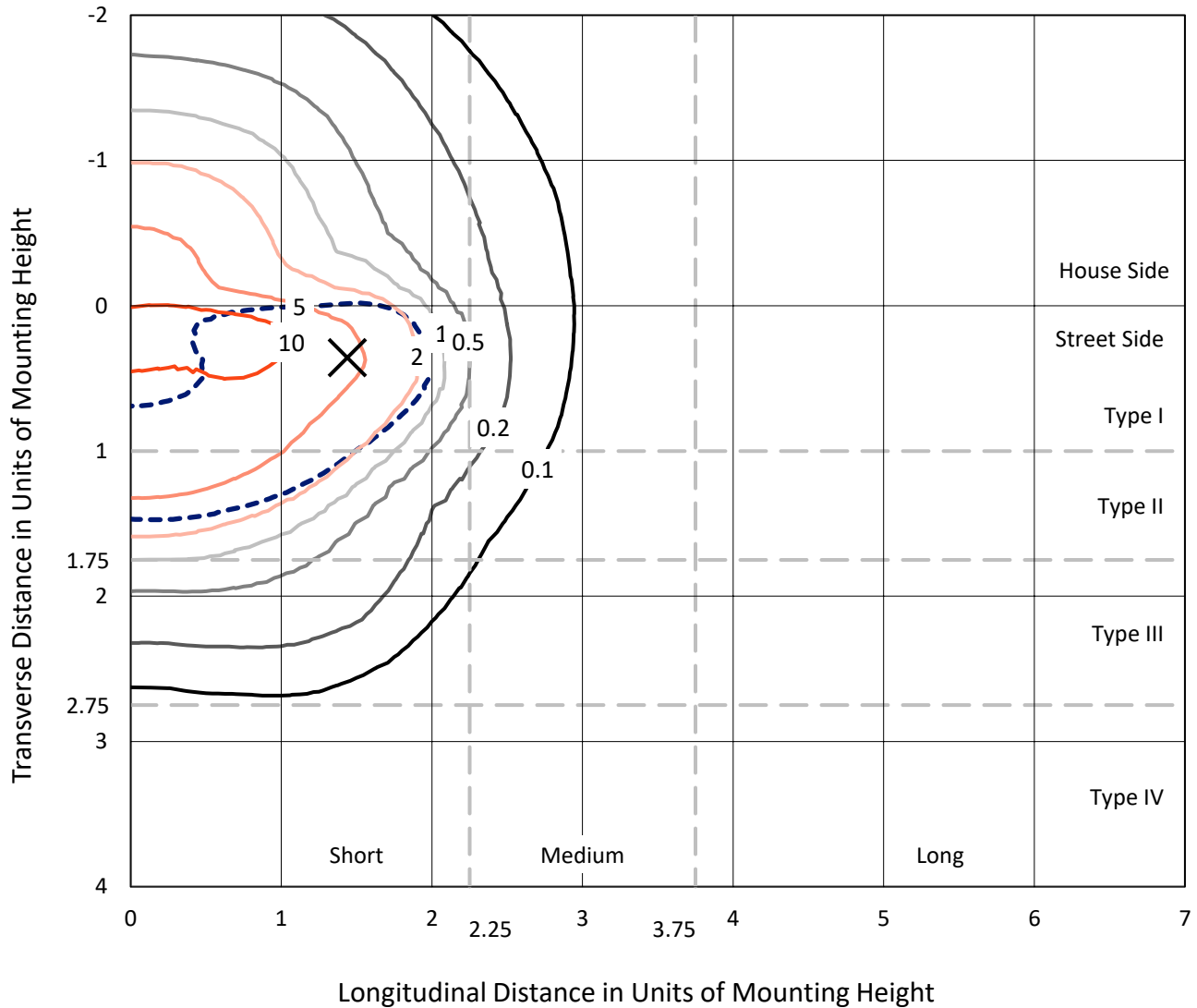
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

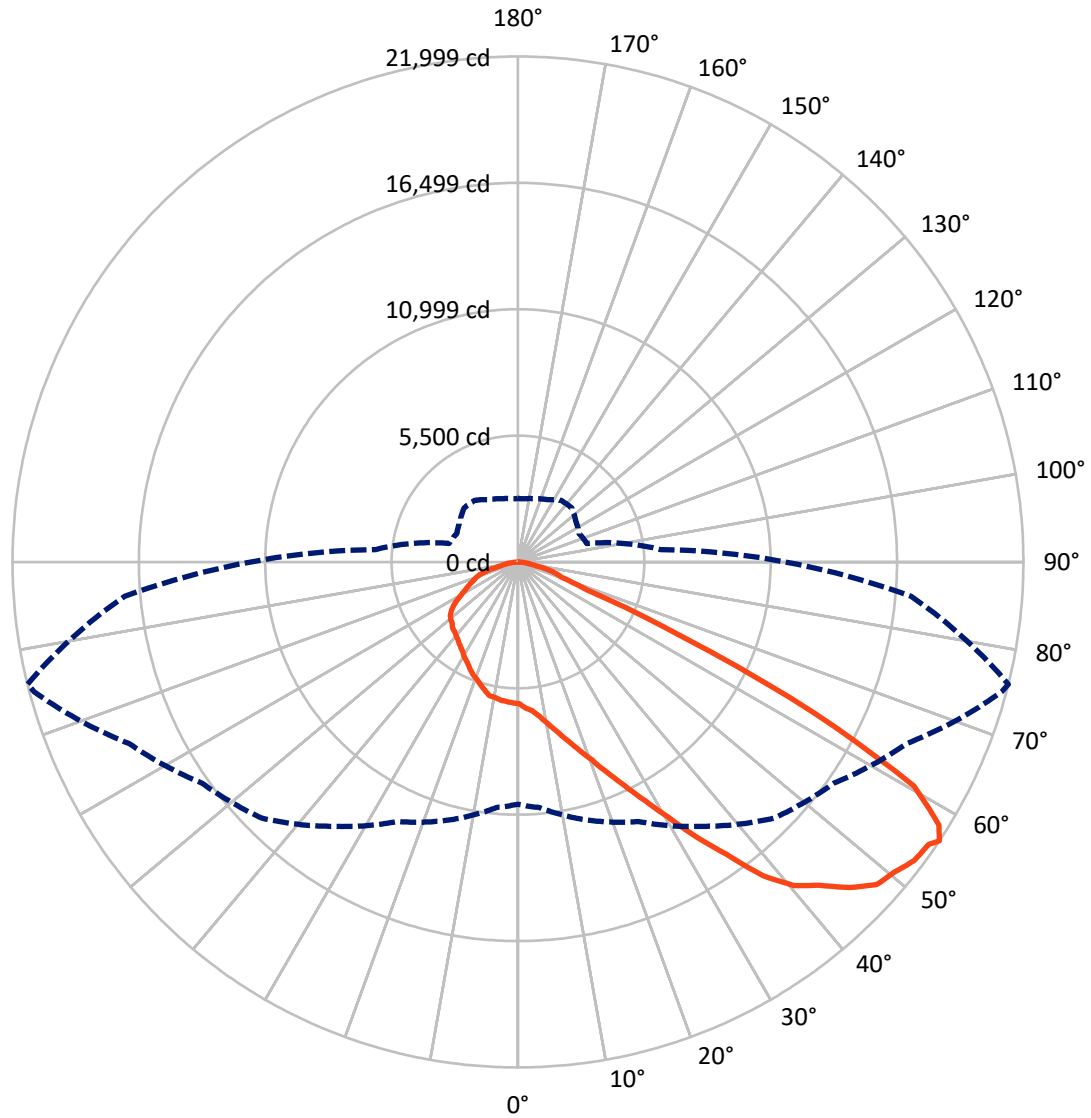
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8666.2	0.0	8666.2
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	23565.8	0.0	23565.8
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	32232.0	0.0	32232.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	611.6	1.9
10°-20°	1921.2	6.0
20°-30°	3360.0	10.4
30°-40°	5260.7	16.3
40°-50°	7652.9	23.7
50°-60°	8411.0	26.1
60°-70°	3754.3	11.6
70°-80°	1084.4	3.4
80°-90°	175.9	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°	32232.0	100.0
0°-180°	32232.0	100.0

**Coefficient of Utilization**



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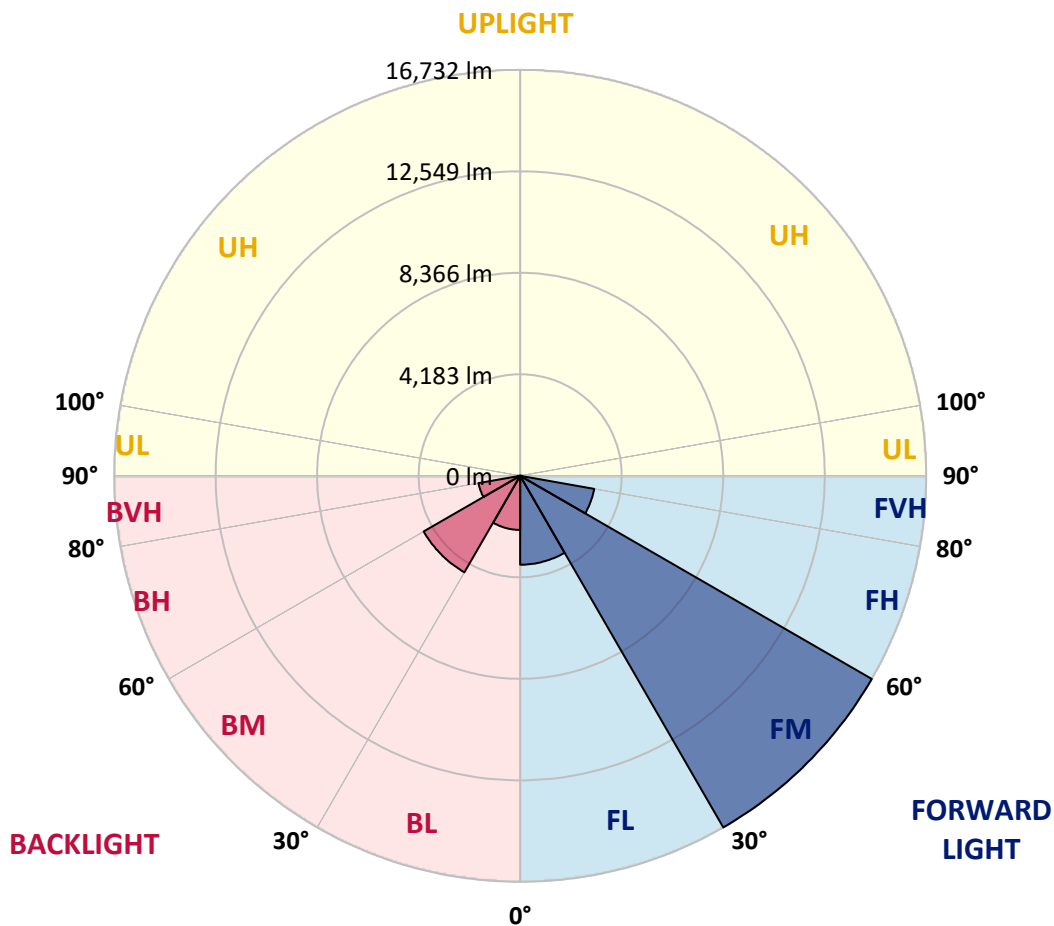
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3662.8	11.4			
FM (30°-60°)	16732.2	51.9			
FH (60°-80°)	3095.0	9.6			G2/5000
FVH (80°-90°)	75.7	0.2			G1/100
BL (0°-30°)	2230.0	6.9	B3/2500		
BM (30°-60°)	4592.4	14.2	B3/5000		
BH (60°-80°)	1743.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	100.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6167.2	6167.2	6167.2	6167.2	6167.2	6167.2	6167.2	6167.2	6167.2	6167.2	6167.2
2.5°	6793.9	6685.3	6676.9	6647.7	6664.4	6589.2	6509.8	6405.3	6296.7	6363.6	6204.8
5°	7270.3	7124.0	7182.5	7082.2	7094.8	6994.5	6831.5	6710.4	6576.7	6497.3	6384.5
7.5°	7437.4	7449.9	7491.7	7475.0	7391.4	7391.4	7282.8	7069.7	6835.7	6789.7	6601.7
10°	7663.0	7667.2	7621.2	7633.8	7750.8	7696.4	7600.3	7508.4	7207.6	7153.3	6819.0
12.5°	7742.4	7667.2	7742.4	7809.3	7947.1	8022.3	8001.5	7934.6	7612.9	7575.3	7086.4
15°	7754.9	7709.0	7771.6	7922.1	8043.2	8360.8	8519.6	8473.6	8047.4	8051.6	7387.2
17.5°	7696.4	7759.1	7784.2	7913.7	8193.7	8490.3	8949.9	9012.6	8661.6	8607.3	7767.5
20°	7775.8	7729.9	7763.3	7880.3	8252.2	8715.9	9317.6	9731.3	9238.2	9200.6	8160.2
22.5°	8080.8	8018.2	8009.8	8085.0	8352.4	8832.9	9706.2	10449.9	9940.2	9961.1	8649.1
25°	8319.0	8352.4	8323.2	8319.0	8486.1	9008.4	10220.1	11306.5	10892.8	10771.7	9225.7
27.5°	8728.5	8807.9	8749.4	8828.8	8791.2	9271.7	10587.8	12255.0	11920.7	11757.8	9748.0
30°	9296.7	9338.5	9284.2	9284.2	9171.4	9639.4	10922.1	13245.2	13107.3	12885.9	10362.2
32.5°	10044.6	10107.3	9998.7	9936.0	9919.3	10186.7	11523.8	14223.0	14456.9	14268.9	11177.0
35°	11034.9	10997.3	10867.8	10809.3	10583.6	11026.5	12417.9	15346.9	15961.1	15626.9	12163.0
37.5°	11908.2	11849.7	11841.3	11515.4	11569.7	11933.2	13178.4	16199.3	17419.4	17323.3	13203.4
40°	12722.9	12777.3	12865.0	12681.2	12597.6	12998.7	14064.2	16851.1	18551.7	18514.1	14005.7
42.5°	13596.2	13546.1	13700.7	13546.1	13420.7	13989.0	15025.2	17302.4	19546.1	19236.9	14845.5
45°	14862.2	14703.5	14757.8	14770.3	14678.4	14887.3	15422.1	17628.3	20243.9	20210.5	15459.7
47.5°	15919.3	15923.5	15831.6	15760.6	15480.6	15689.5	15865.0	17833.0	21046.1	20991.8	15697.9
50°	16312.1	16257.8	16525.2	16679.8	16696.5	16270.3	16211.8	17945.8	21468.1	21230.0	15936.1
52.5°	14899.8	14950.0	15372.0	16291.2	16821.9	16867.8	16617.1	18179.8	21639.4	21589.3	16128.3
55°	11991.7	12234.1	12927.7	13989.0	15246.6	16629.7	17055.8	18422.2	21731.4	21689.6	16980.6
56°	10541.9	10729.9	11632.4	12463.9	14043.3	15764.7	16780.1	18681.2	21802.4	21998.8	17181.2
57.5°	8486.1	8703.4	9351.0	10295.3	12158.9	14118.5	16019.6	18363.7	21526.6	21601.8	17327.4
60°	5306.4	5327.3	6104.5	6727.1	8039.1	9952.7	12225.7	15977.8	19922.2	19813.5	15564.2
62.5°	3480.5	3484.7	4190.8	4700.6	5298.1	5736.8	7195.0	10596.2	14699.3	14507.1	11080.9
65°	2444.3	2498.6	3046.0	3727.0	3969.4	3739.6	3693.6	5586.4	8210.4	7934.6	5954.1
67.5°	1788.3	1792.5	2277.2	3008.4	3359.4	2845.4	2310.6	2728.4	3250.7	3242.4	2757.7
70°	1182.5	1232.6	1604.5	2247.9	2649.0	2285.5	1888.6	1951.3	2068.3	2068.3	2051.5
72.5°	689.4	735.4	981.9	1424.8	1487.5	1429.0	1495.8	1671.3	1746.5	1742.4	1721.5
75°	392.8	413.7	468.0	593.3	739.6	873.3	1098.9	1266.0	1341.2	1387.2	1332.9
77.5°	229.8	242.3	275.8	338.4	384.4	472.1	597.5	714.5	814.8	802.2	810.6
80°	121.2	121.2	154.6	200.6	267.4	334.3	396.9	463.8	518.1	530.6	543.2
82.5°	71.0	75.2	100.3	146.2	192.2	238.2	305.0	351.0	401.1	405.3	413.7
85°	37.6	41.8	62.7	96.1	129.5	146.2	150.4	142.1	154.6	146.2	167.1
87.5°	12.5	12.5	20.9	16.7	16.7	20.9	25.1	25.1	33.4	33.4	33.4
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°	6167.2	6167.2	6167.2	6167.2	6167.2	6167.2	6167.2	6167.2	6167.2	6167.2	6167.2
2.5°	6200.6	6200.6	6129.6	5995.9	5975.0	5920.7	5870.5	5866.3	5828.7	5795.3	5778.6
5°	6317.6	6188.1	6083.6	5962.4	5820.4	5753.5	5678.3	5594.8	5561.3	5594.8	5590.6
7.5°	6451.3	6342.7	6029.3	5803.7	5640.7	5573.9	5490.3	5402.5	5410.9	5410.9	5352.4
10°	6580.8	6434.6	5933.2	5644.9	5406.7	5356.6	5310.6	5344.1	5385.8	5394.2	5356.6
12.5°	6798.1	6468.0	5887.2	5486.1	5335.7	5227.1	5256.3	5348.2	5436.0	5410.9	5440.2
15°	6961.1	6497.3	5678.3	5323.2	5135.1	5185.3	5289.7	5352.4	5498.7	5481.9	5511.2
17.5°	7119.8	6514.0	5473.6	5105.9	5026.5	5164.4	5243.8	5423.4	5469.4	5569.7	5607.3
20°	7445.7	6547.4	5264.7	4972.2	4947.1	5105.9	5243.8	5327.3	5427.6	5515.4	5515.4
22.5°	7612.9	6530.7	5126.8	4796.7	4876.1	4976.4	5101.7	5243.8	5243.8	5327.3	5331.5
25°	7821.8	6463.8	4909.5	4713.1	4771.6	4867.7	5009.8	4959.6	5014.0	5014.0	5080.8
27.5°	8060.0	6321.8	4721.5	4562.7	4679.7	4784.2	4805.1	4771.6	4709.0	4700.6	4675.5
30°	8252.2	6146.3	4583.6	4512.6	4608.7	4667.2	4600.3	4529.3	4420.6	4412.3	4353.8
32.5°	8515.4	5929.0	4412.3	4387.2	4495.9	4500.0	4479.1	4370.5	4211.7	4144.9	4078.0
35°	8958.3	5803.7	4282.8	4320.4	4353.8	4341.3	4303.7	4186.7	4027.9	3998.6	3973.6
37.5°	9284.2	5711.7	4149.1	4195.0	4224.3	4241.0	4128.2	3998.6	4002.8	3944.3	3927.6
40°	9651.9	5653.2	4040.4	4061.3	4065.5	4119.8	3981.9	3919.3	3948.5	3910.9	3936.0
42.5°	10124.0	5670.0	3927.6	3910.9	3990.3	3969.4	3902.5	3819.0	3835.7	3722.9	3739.6
45°	10374.7	5782.8	3860.8	3785.5	3873.3	3869.1	3781.4	3702.0	3601.7	3384.4	3392.8
47.5°	10541.9	5812.0	3702.0	3651.8	3743.8	3798.1	3697.8	3514.0	3371.9	3217.3	3179.7
50°	10713.2	5866.3	3626.8	3522.3	3559.9	3689.4	3564.1	3388.6	3250.7	3112.8	3133.7
52.5°	10863.6	5970.8	3480.5	3325.9	3392.8	3534.8	3468.0	3254.9	3104.5	2991.7	2958.2
55°	11532.1	6204.8	3234.0	3033.4	3192.2	3371.9	3334.3	3075.2	2912.3	2853.8	2845.4
56°	11636.6	6213.1	3104.5	2933.2	3079.4	3317.6	3271.6	2995.8	2849.6	2757.7	2761.9
57.5°	11653.3	6112.9	2920.6	2841.2	2966.6	3238.2	3179.7	2933.2	2732.6	2649.0	2624.0
60°	10253.6	4771.6	2690.8	2640.7	2786.9	2995.8	2975.0	2761.9	2536.2	2440.1	2486.1
62.5°	6990.3	3497.2	2511.2	2502.8	2578.0	2782.8	2728.4	2536.2	2348.2	2285.5	2256.3
65°	4069.7	2653.2	2335.7	2302.2	2364.9	2473.6	2511.2	2310.6	2114.2	2072.4	2059.9
67.5°	2402.5	2193.6	2110.0	2055.7	2034.8	2101.7	2130.9	2013.9	1817.6	1759.1	1809.2
70°	2009.8	1951.3	1955.4	1863.5	1813.4	1767.4	1742.4	1637.9	1474.9	1399.7	1378.8
72.5°	1734.0	1708.9	1692.2	1608.6	1562.7	1458.2	1349.6	1245.1	1124.0	1061.3	1065.5
75°	1324.5	1316.2	1324.5	1282.7	1203.4	1119.8	1019.5	885.8	793.9	714.5	731.2
77.5°	789.7	814.8	827.3	810.6	777.2	702.0	639.3	551.5	463.8	401.1	392.8
80°	543.2	564.1	585.0	564.1	530.6	476.3	409.5	342.6	279.9	246.5	238.2
82.5°	413.7	434.5	447.1	426.2	384.4	325.9	279.9	234.0	183.8	150.4	142.1
85°	150.4	171.3	167.1	200.6	217.3	208.9	179.7	137.9	104.5	75.2	71.0
87.5°	41.8	37.6	41.8	41.8	41.8	37.6	33.4	33.4	33.4	20.9	16.7
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)