

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: P534248

Luminaire Tested: **GALN-SA9D-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534248  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-727-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51539 lumens  
Efficiency: N/A  
Efficacy: 93.4 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

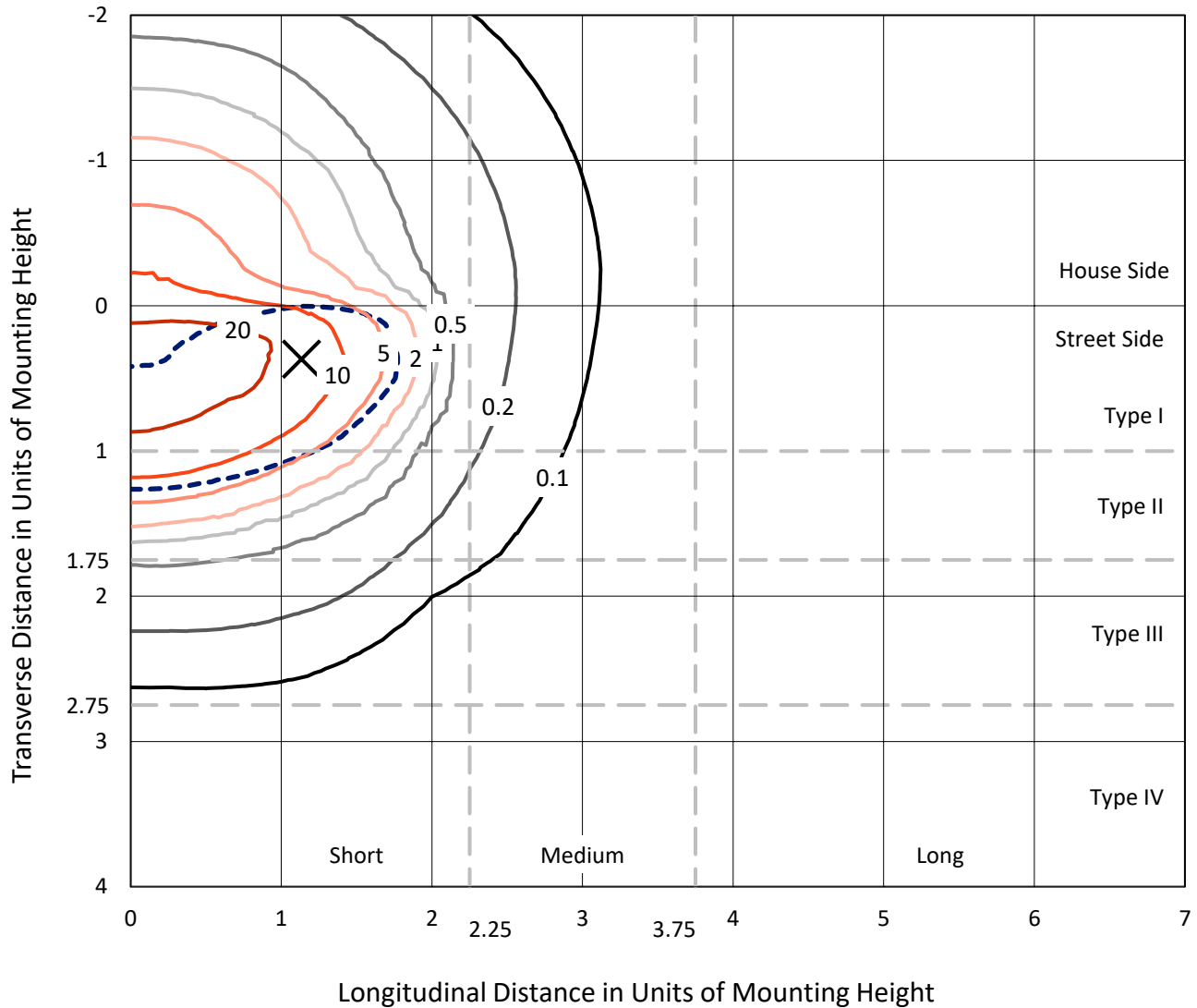
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

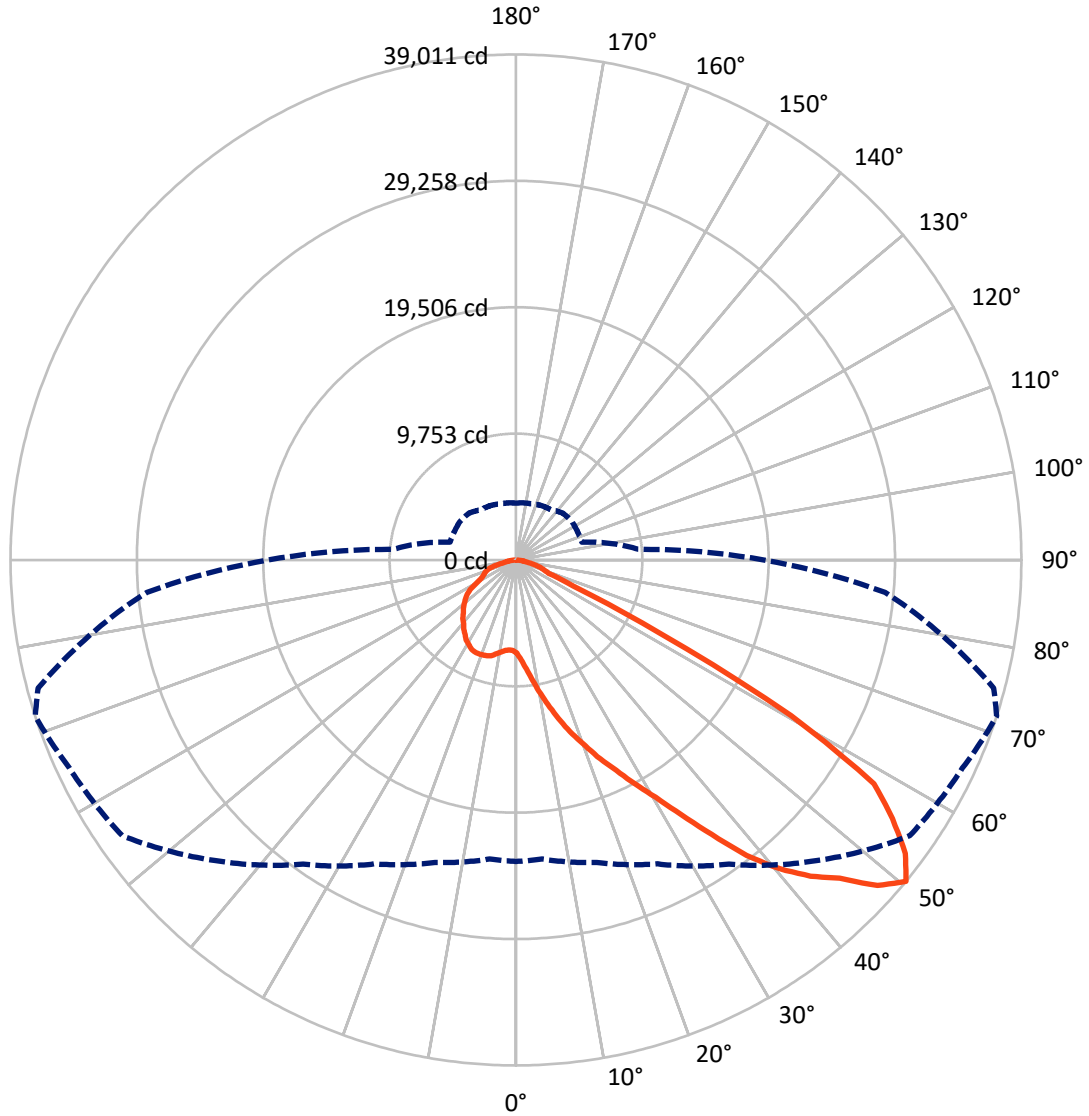
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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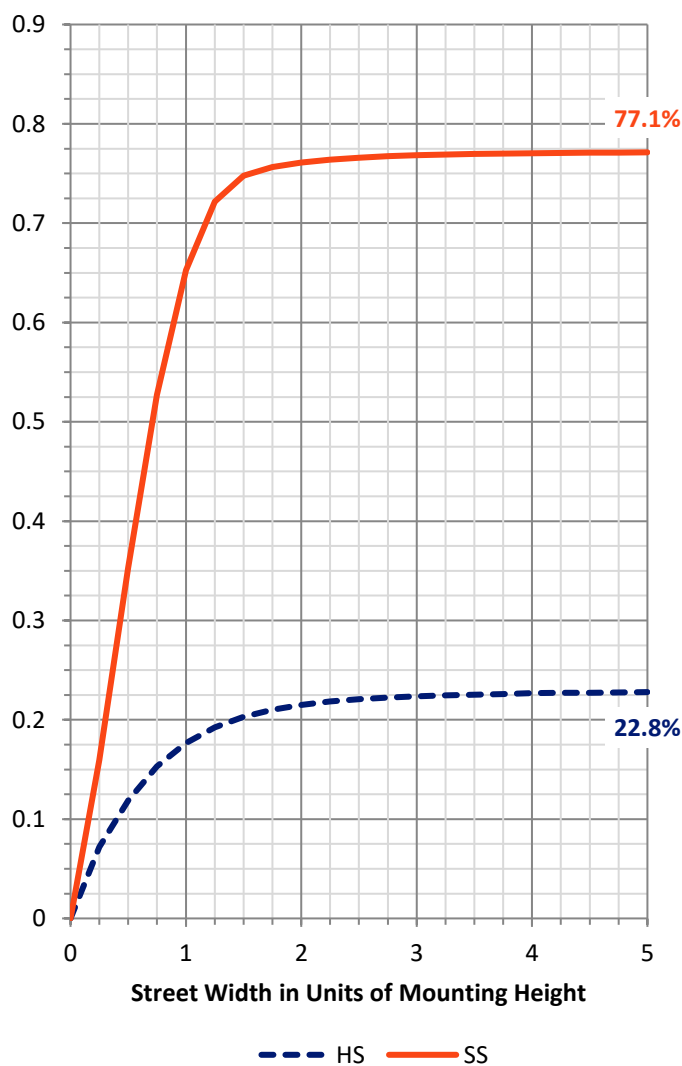
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11807.9	0.0	11807.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	39731.1	0.0	39731.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	51539.0	0.0	51539.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	843.9	1.6
10°-20°	3154.9	6.1
20°-30°	6117.1	11.9
30°-40°	10133.9	19.7
40°-50°	14179.5	27.5
50°-60°	11962.2	23.2
60°-70°	3646.1	7.1
70°-80°	1279.1	2.5
80°-90°	222.4	0.4
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°	51539.0	100.0
0°-180°	51539.0	100.0

**Coefficient of Utilization**



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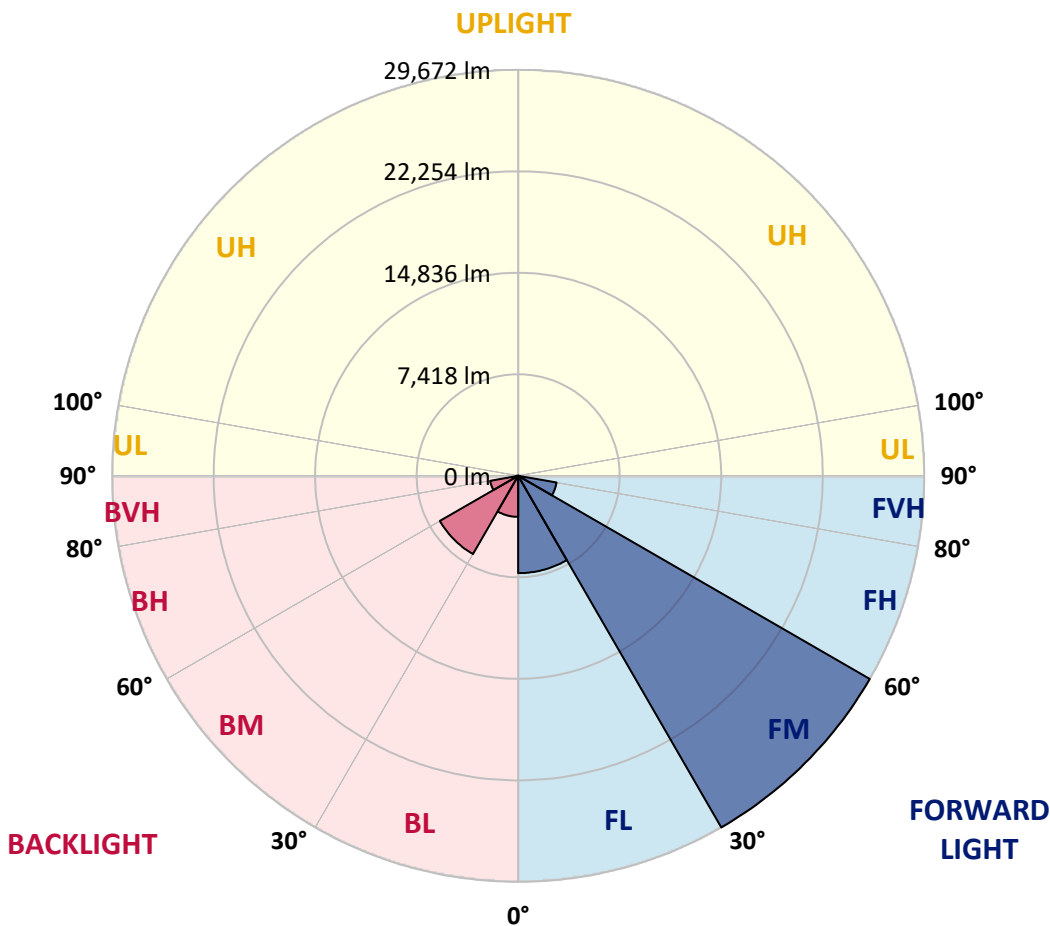
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7114.2	13.8			
FM (30°-60°)	29672.4	57.6			
FH (60°-80°)	2844.9	5.5			G2/5000
FVH (80°-90°)	99.6	0.2			G1/100
BL (0°-30°)	3001.6	5.8	B4/5000		
BM (30°-60°)	6603.2	12.8	B4/8500		
BH (60°-80°)	2080.3	4.0	B3/2500		G3/2500
BVH (80°-90°)	122.8	0.2			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°	55°	65°	72°	75°	85°
0°	7174.7	7174.7	7174.7	7174.7	7174.7	7174.7	7174.7	7174.7	7174.7	7174.7	7174.7
2.5°	9228.2	9170.8	8998.6	8941.2	8737.2	8367.3	8239.7	7863.4	7704.0	7557.3	7385.1
5°	11670.8	11402.9	11383.8	11058.6	10586.6	10312.4	9496.1	8947.6	8443.8	8188.7	7716.8
7.5°	13226.9	13233.3	13233.3	12965.4	12589.2	11894.0	11160.6	10172.1	9413.2	9036.9	8233.3
10°	14706.5	14578.9	14508.8	14483.3	14228.2	13552.2	12767.7	11543.2	10503.7	10063.7	8622.4
12.5°	15752.4	15644.0	15803.4	15720.5	15535.5	15095.5	14355.7	12959.0	11658.0	11064.9	9247.4
15°	16249.8	16326.4	16453.9	16683.5	16600.6	16434.8	15618.5	14413.1	12901.6	12232.0	9802.2
17.5°	17015.1	16804.7	16957.7	17244.7	17474.3	17397.8	16932.2	15465.4	14132.5	13309.8	10548.4
20°	17550.8	17429.7	17506.2	17837.8	18010.0	18443.7	18201.3	16842.9	15312.3	14445.0	11428.4
22.5°	19081.4	18902.9	18654.1	18705.2	18768.9	19075.1	19132.4	18354.4	16683.5	15765.1	12263.9
25°	20969.2	20803.3	20510.0	20210.2	20025.3	19967.9	20165.6	19540.6	17997.3	17047.0	13163.1
27.5°	23048.2	22767.6	22582.7	21964.1	21466.6	21390.1	21294.4	20956.4	19553.4	18526.6	14177.1
30°	25069.9	24846.7	24598.0	23609.4	23092.9	23010.0	22538.0	22633.7	21243.4	20101.8	15325.1
32.5°	26600.5	26619.6	26052.0	25305.9	24821.2	24381.1	24208.9	24483.2	23411.7	22493.4	16607.0
35°	27837.7	27895.1	27353.0	26677.0	26154.1	26460.2	26383.6	26511.2	26001.0	24878.6	18099.3
37.5°	29043.1	28756.1	28175.7	27850.5	27576.2	28080.1	28730.6	28839.0	28934.6	27614.5	19834.0
40°	29240.8	29266.3	28928.3	29157.9	28813.5	29572.4	31083.9	30943.5	31332.6	30178.2	21715.3
42.5°	28960.2	29017.5	29151.5	29476.7	30305.8	31217.8	33462.7	32888.7	33360.6	32333.8	23545.7
45°	28501.0	28265.0	28430.8	29668.1	31103.0	33131.0	35637.4	35191.0	35037.9	34176.9	25726.8
47.5°	26307.1	26549.5	27066.0	28590.3	30745.8	33462.7	37180.7	37078.7	37537.9	36932.0	27710.2
50°	23265.1	23169.4	24164.3	25879.8	28660.4	32812.1	37097.8	38022.6	39011.1	38169.2	28596.6
52.5°	17423.3	17933.5	18788.1	20918.1	24884.9	29266.3	35286.6	36830.0	37633.5	37455.0	27882.4
55°	11013.9	11167.0	11683.5	14215.4	17786.8	23488.3	30248.4	33826.2	35261.1	35930.7	27225.5
57.5°	5350.7	5063.7	5695.1	7729.5	10274.1	15797.0	23328.8	29464.0	32582.6	33794.3	25796.9
60°	2793.3	2901.8	3150.5	3877.5	5312.4	8201.4	14540.7	19636.3	24400.2	26262.5	19553.4
62.5°	2315.0	2353.3	2519.1	2882.6	3533.1	4719.3	7423.4	9572.6	12442.5	14119.7	11122.3
65°	1964.3	1983.4	2162.0	2404.3	2818.8	3322.7	3820.1	3998.7	4840.5	4968.1	3954.0
67.5°	1639.0	1658.1	1849.5	2079.1	2346.9	2480.8	2608.4	2595.6	2691.3	2653.0	2646.7
70°	1262.7	1281.9	1479.6	1721.9	1855.8	1779.3	2174.7	2264.0	2302.3	2334.2	2385.2
72.5°	912.0	950.2	1103.3	1275.5	1205.3	1383.9	1792.1	1926.0	1977.0	1996.2	2059.9
75°	663.3	676.0	714.3	663.3	765.3	963.0	1262.7	1428.6	1492.3	1511.5	1607.1
77.5°	293.4	299.7	306.1	382.6	491.1	599.5	752.5	886.5	975.8	1001.3	1026.8
80°	153.1	159.4	197.7	261.5	350.8	440.0	548.5	625.0	682.4	688.8	714.3
82.5°	95.7	102.0	140.3	184.9	248.7	325.3	401.8	465.6	510.2	516.6	523.0
85°	44.6	57.4	82.9	114.8	165.8	210.5	216.8	184.9	197.7	204.1	191.3
87.5°	12.8	19.1	25.5	19.1	25.5	25.5	31.9	38.3	38.3	38.3	44.6
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°	7174.7	7174.7	7174.7	7174.7	7174.7	7174.7	7174.7	7174.7	7174.7	7174.7	7174.7
2.5°	7289.5	7232.1	7008.9	6925.9	6709.1	6747.4	6632.6	6626.2	6600.7	6594.3	6587.9
5°	7468.0	7289.5	7021.6	6817.5	6696.4	6683.6	6600.7	6600.7	6626.2	6645.3	6600.7
7.5°	7761.4	7557.3	7104.5	6913.2	6804.8	6785.6	6728.2	6683.6	6741.0	6721.9	6670.8
10°	8099.4	7742.3	7264.0	7098.1	6919.6	6874.9	6874.9	6894.1	6798.4	6830.3	6779.3
12.5°	8475.7	7997.4	7468.0	7276.7	7066.3	7040.7	7028.0	6887.7	6938.7	6913.2	6785.6
15°	8954.0	8290.7	7729.5	7404.3	7225.7	7110.9	6945.1	6919.6	6887.7	6823.9	6766.5
17.5°	9470.6	8609.6	7850.7	7442.5	7174.7	7091.8	6964.2	6830.3	6734.6	6747.4	6702.7
20°	9910.6	8903.0	7895.3	7480.8	7136.4	6977.0	6779.3	6696.4	6594.3	6587.9	6581.6
22.5°	10433.6	9298.4	7959.1	7378.7	7021.6	6855.8	6721.9	6575.2	6505.0	6415.7	6460.4
25°	11058.6	9451.4	7971.9	7321.4	6938.7	6645.3	6575.2	6415.7	6390.2	6262.7	6288.2
27.5°	11511.4	9534.3	7869.8	7142.8	6747.4	6524.2	6396.6	6281.8	6237.2	6141.5	6116.0
30°	12117.2	9661.9	7653.0	6919.6	6556.1	6307.3	6230.8	6205.3	6077.7	5975.7	5962.9
32.5°	12806.0	9744.8	7512.7	6690.0	6358.4	6167.0	6205.3	6084.1	5924.7	5835.4	5809.9
35°	13354.4	9776.7	7161.9	6428.5	6224.4	6103.3	6058.6	6033.1	5803.5	5720.6	5656.8
37.5°	14189.9	9706.5	6868.5	6243.6	6077.7	6033.1	5994.8	5822.6	5561.2	5440.0	5350.7
40°	15165.7	9687.4	6492.3	5982.1	5937.4	5988.5	5873.7	5605.8	5242.3	5108.4	5044.6
42.5°	16103.1	9821.3	6256.3	5841.8	5784.4	5803.5	5644.1	5242.3	5063.7	4987.2	4885.2
45°	17672.0	10101.9	5867.3	5624.9	5599.4	5586.7	5395.4	4974.4	4872.4	4776.7	4757.6
47.5°	19087.8	9917.0	5618.6	5401.7	5427.2	5357.1	4948.9	4815.0	4700.2	4604.5	4572.7
50°	19170.7	9476.9	5267.8	5229.5	5235.9	5114.7	4725.7	4636.4	4489.7	4426.0	4381.3
52.5°	18737.0	8756.3	4942.5	4955.3	4974.4	4776.7	4451.5	4387.7	4266.5	4177.3	4151.7
55°	17518.9	7633.8	4623.7	4674.7	4725.7	4349.4	4247.4	4088.0	3992.3	3864.8	3871.1
57.5°	15433.5	6147.9	4177.3	4260.2	4368.6	3954.0	3877.5	3679.8	3539.5	3437.5	3424.7
60°	10344.3	4375.0	3507.6	3539.5	3781.8	3616.0	3609.7	3412.0	3220.6	3131.3	3080.3
62.5°	6103.3	3341.8	3029.3	2997.4	2991.0	3086.7	3246.1	3176.0	2927.3	2755.1	2806.1
65°	3195.1	2889.0	2818.8	2710.4	2646.7	2621.1	2742.3	2774.2	2608.4	2423.4	2410.7
67.5°	2684.9	2684.9	2627.5	2589.3	2500.0	2391.6	2315.0	2213.0	2187.5	2136.5	2072.7
70°	2442.6	2506.4	2487.2	2397.9	2321.4	2200.2	2002.5	1836.7	1677.3	1619.9	1658.1
72.5°	2130.1	2193.9	2193.9	2149.2	2047.2	1862.2	1670.9	1479.6	1345.6	1243.6	1230.9
75°	1639.0	1670.9	1747.4	1696.4	1562.5	1447.7	1250.0	1052.3	924.7	829.1	809.9
77.5°	1045.9	1096.9	1096.9	1090.5	994.9	886.5	758.9	618.6	523.0	452.8	433.7
80°	695.1	727.0	752.5	727.0	663.3	580.4	484.7	389.0	318.9	261.5	248.7
82.5°	510.2	548.5	567.6	542.1	478.3	414.5	344.4	274.2	204.1	159.4	146.7
85°	197.7	204.1	229.6	274.2	267.9	261.5	210.5	153.1	114.8	82.9	76.5
87.5°	51.0	44.6	51.0	51.0	44.6	38.3	38.3	38.3	38.3	19.1	25.5
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)