

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: P533510

Luminaire Tested: **GALN-SA9A-722-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533510  
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-SA9A-722-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2200K, 615mA 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: 25831 lumens  
Efficiency: N/A  
Efficacy: 94.3 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

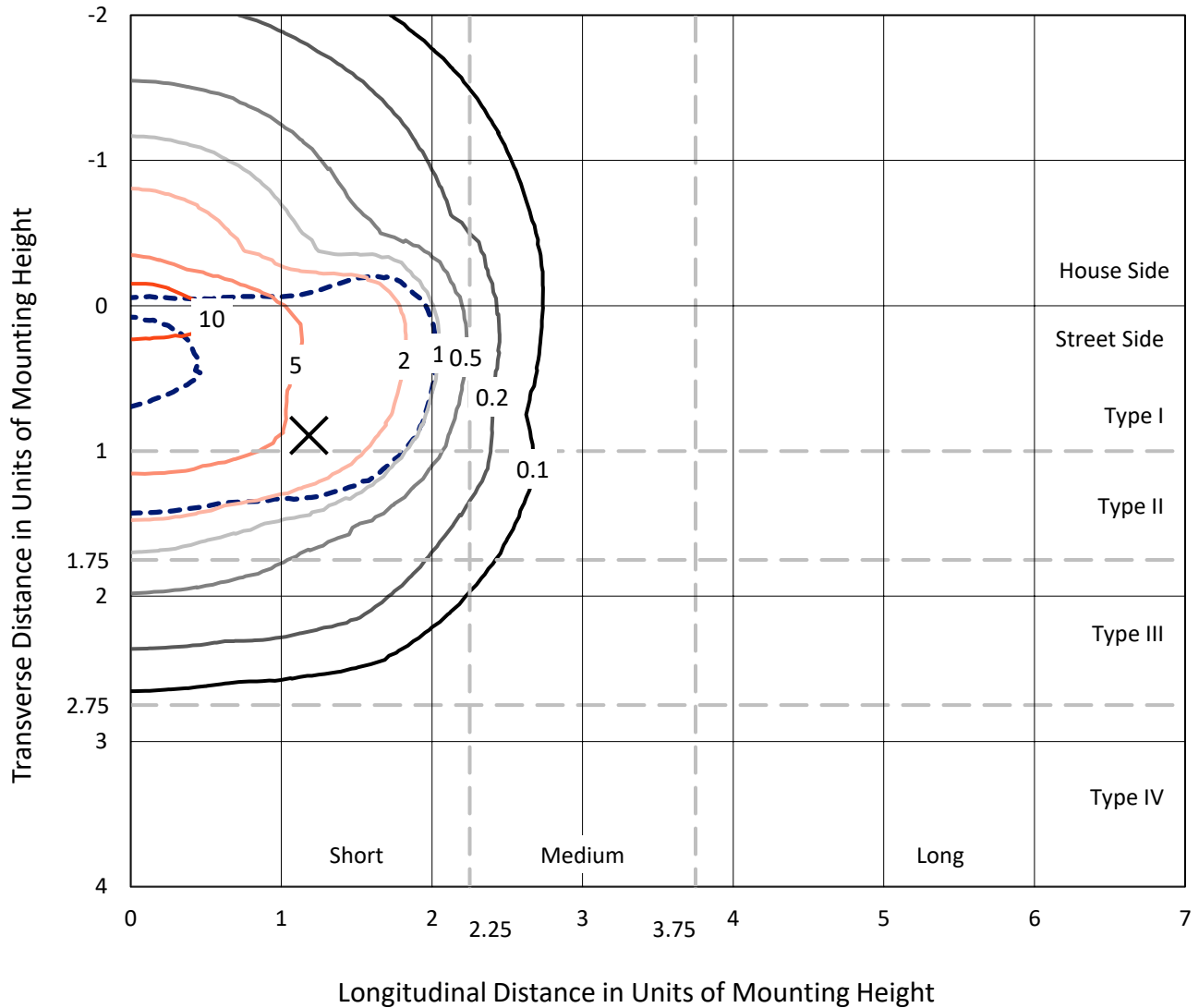
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

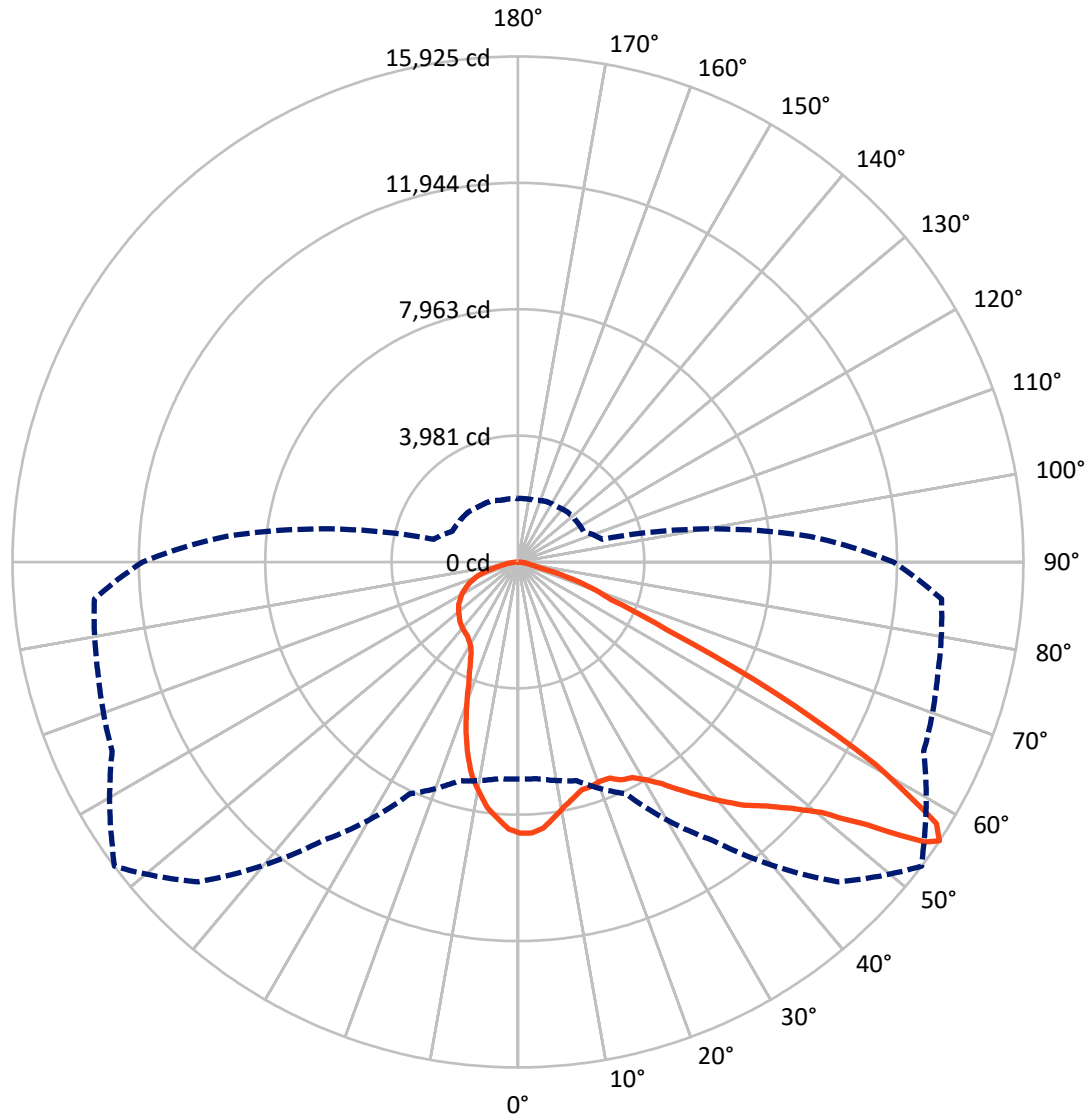
✕ Max cd  
 - - - 1/2 Max cd



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

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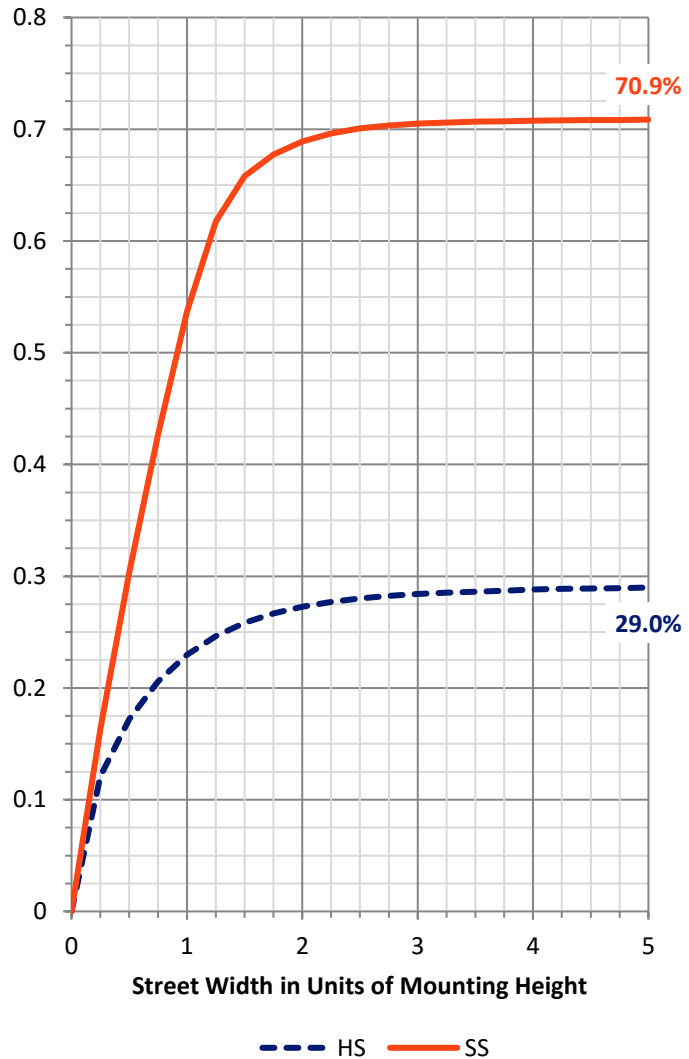
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7538.1	0.0	7538.1
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	18293.0	0.0	18293.0
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	25831.0	0.0	25831.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	756.5	2.9
10°-20°	1889.5	7.3
20°-30°	2786.3	10.8
30°-40°	3981.1	15.4
40°-50°	5479.4	21.2
50°-60°	6475.2	25.1
60°-70°	3450.9	13.4
70°-80°	875.5	3.4
80°-90°	136.5	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°	25831.0	100.0
0°-180°	25831.0	100.0

**Coefficient of Utilization**

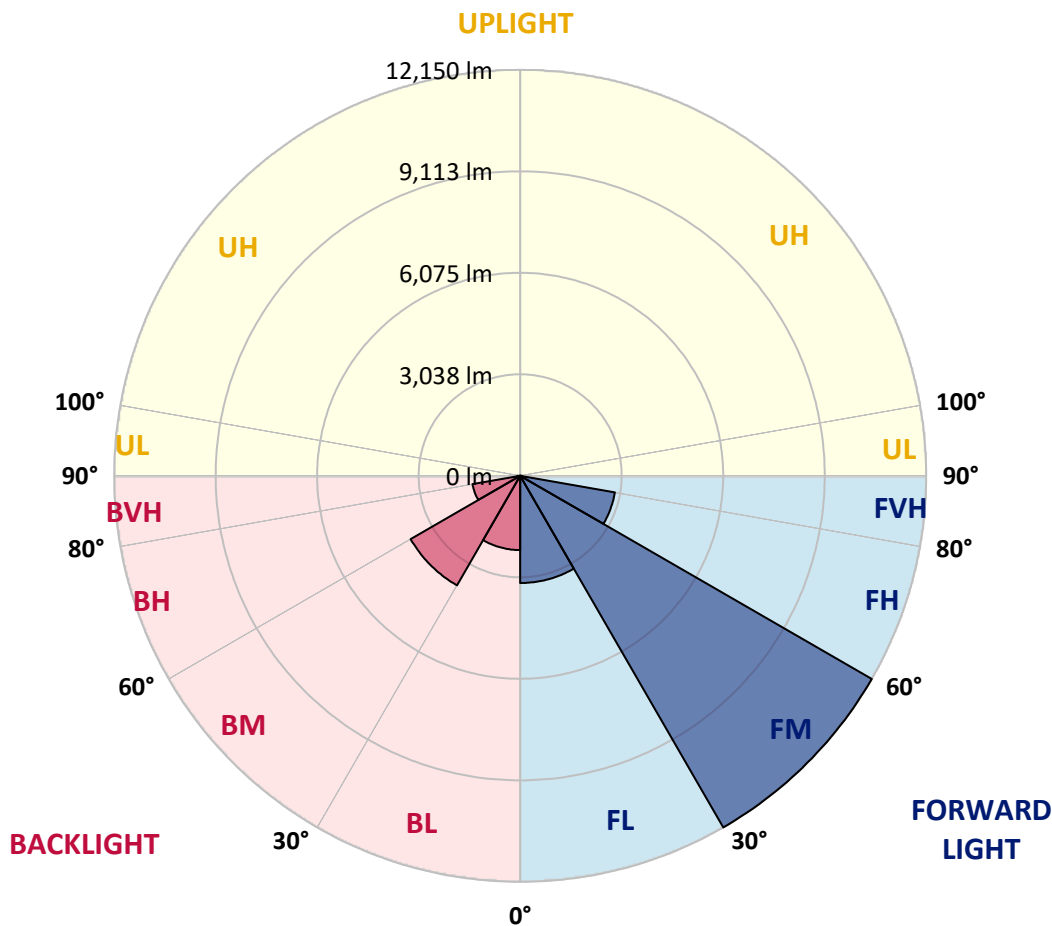


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3209.1	12.4			
FM (30°-60°)	12150.4	47.0			
FH (60°-80°)	2878.5	11.1			G2/5000
FVH (80°-90°)	54.9	0.2			G1/100
BL (0°-30°)	2223.3	8.6	B3/2500		
BM (30°-60°)	3785.4	14.7	B3/5000		
BH (60°-80°)	1447.8	5.6	B3/2500		G3/2500
BVH (80°-90°)	81.6	0.3			G1/100
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°	53°	55°	65°	75°	85°
0°	8545.9	8545.9	8545.9	8545.9	8545.9	8545.9	8545.9	8545.9	8545.9	8545.9	8545.9
2.5°	8439.9	8367.0	8410.1	8393.5	8529.3	8569.1	8549.2	8565.8	8642.0	8605.6	8529.3
5°	7886.5	7989.2	8009.1	8058.8	8138.3	8294.1	8416.7	8449.8	8486.3	8655.3	8638.7
7.5°	7382.8	7452.4	7416.0	7561.8	7734.1	7985.9	8135.0	8161.5	8496.2	8589.0	8658.6
10°	7064.7	6995.1	7160.8	7200.6	7396.1	7684.4	7863.3	7972.7	8277.5	8645.3	8688.4
12.5°	6769.8	6746.6	6846.0	6958.7	7177.4	7475.6	7657.9	7700.9	8171.5	8559.2	8761.3
15°	6551.1	6524.6	6624.0	6706.8	6962.0	7227.1	7459.0	7581.6	8055.5	8509.5	8698.3
17.5°	6378.8	6375.5	6431.8	6580.9	6842.7	7064.7	7439.2	7445.8	7995.8	8585.7	8751.4
20°	6368.8	6365.5	6375.5	6541.2	6779.7	7051.5	7376.2	7435.8	7995.8	8532.7	8754.7
22.5°	6451.7	6398.7	6458.3	6564.3	6736.7	7074.7	7399.4	7531.9	8188.0	8794.4	8903.8
25°	6584.2	6597.5	6630.6	6667.1	6766.5	7127.7	7604.8	7714.2	8413.4	9019.8	9109.2
27.5°	6826.1	6819.5	6832.8	6852.6	6938.8	7177.4	7687.7	7969.3	8883.9	9420.7	9331.2
30°	7180.7	7157.5	7210.5	7280.1	7200.6	7336.4	7962.7	8174.8	9321.3	9825.0	9579.8
32.5°	7502.1	7588.3	7687.7	7717.5	7621.4	7647.9	8327.2	8542.6	9685.8	10322.0	9884.6
35°	7903.1	7972.7	8105.2	8198.0	8181.4	8101.9	8824.3	9109.2	10212.7	10686.5	10206.1
37.5°	8294.1	8376.9	8595.6	8870.7	8718.2	8681.8	9354.4	9589.7	10375.0	10882.0	10441.3
40°	8923.7	8920.4	9298.1	9440.6	9576.5	9513.5	9904.5	9984.0	10461.2	10839.0	10448.0
42.5°	9662.6	9616.2	10000.6	10222.6	10398.2	10404.9	10477.8	10451.3	10501.0	10620.3	10378.4
45°	10365.1	10464.5	10852.2	11249.9	11425.5	11445.4	10961.6	10911.9	10570.6	10557.3	10245.8
47.5°	11223.3	11246.5	11564.7	12088.2	12495.8	12356.6	11587.8	11478.5	10875.4	10978.1	10467.8
50°	11273.0	11445.4	11730.3	12346.7	13599.2	13562.8	12399.7	12194.2	11365.8	11574.6	11087.5
52.5°	10232.6	10192.8	10530.8	11538.1	13516.4	14762.3	13745.0	13254.6	12419.6	12260.5	12091.5
55°	7797.0	7889.8	8188.0	9205.3	11737.0	14778.9	15577.5	15176.5	13546.2	13274.5	13079.0
56°	6839.4	6852.6	7134.3	8062.1	10709.7	14252.0	15925.4	15600.7	14106.2	13692.0	13393.8
57.5°	5669.7	5593.4	5739.2	6246.2	9039.6	13138.6	15544.3	15862.5	14762.3	14142.7	13728.5
60°	4463.5	4446.9	4387.3	4480.1	5712.7	9897.9	12939.8	13655.6	14696.1	13718.5	13148.6
62.5°	3645.0	3562.2	3681.5	3814.0	3969.8	6140.2	9092.7	9513.5	11667.4	10951.6	9878.0
65°	2826.5	2786.8	2935.9	3366.7	3459.5	3900.2	5179.2	5504.0	6889.1	6766.5	5957.9
67.5°	1945.1	1951.7	2081.0	2737.1	3207.6	3167.9	3171.2	3340.2	3595.3	2670.8	2326.2
70°	1232.7	1229.4	1299.0	1762.9	2581.3	2607.8	2475.3	2425.6	2299.7	1391.7	1474.6
72.5°	792.0	768.8	805.2	974.2	1335.4	1544.2	1590.6	1620.4	1332.1	1093.5	1186.3
75°	447.3	424.1	410.9	454.0	526.9	609.7	669.4	689.2	772.1	828.4	878.1
77.5°	135.9	122.6	149.1	198.8	261.8	351.2	427.5	440.7	520.2	586.5	636.2
80°	59.6	66.3	92.8	132.5	185.6	248.5	301.5	321.4	374.4	424.1	437.4
82.5°	36.5	39.8	63.0	89.5	129.2	175.6	215.4	222.0	275.0	314.8	324.7
85°	13.3	16.6	33.1	53.0	82.8	112.7	112.7	122.6	112.7	112.7	122.6
87.5°	0.0	0.0	3.3	6.6	6.6	9.9	13.3	13.3	16.6	19.9	23.2
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°	8545.9	8545.9	8545.9	8545.9	8545.9	8545.9	8545.9	8545.9	8545.9	8545.9	8545.9
2.5°	8569.1	8552.5	8526.0	8429.9	8420.0	8390.2	8224.5	8198.0	8224.5	8145.0	8151.6
5°	8552.5	8602.2	8403.4	8307.3	8128.4	7999.2	7850.0	7773.8	7638.0	7551.8	7647.9
7.5°	8625.4	8605.6	8357.0	8148.3	7879.9	7551.8	7290.0	7140.9	6902.3	6836.1	6885.8
10°	8598.9	8492.9	8201.3	7926.3	7419.3	7131.0	6706.8	6295.9	6070.6	5954.6	5938.1
12.5°	8562.5	8532.7	8045.6	7571.7	7038.2	6431.8	5835.3	5447.6	5079.8	4920.8	4944.0
15°	8605.6	8353.7	7753.9	7154.2	6445.1	5649.8	5006.9	4506.6	4251.4	4148.7	4148.7
17.5°	8585.7	8267.6	7614.8	6687.0	5789.0	4847.9	4142.1	3840.5	3734.5	3734.5	3764.3
20°	8595.6	8323.9	7333.1	6219.7	5013.6	4082.4	3568.8	3459.5	3505.8	3522.4	3539.0
22.5°	8651.9	8138.3	7058.1	5706.1	4294.5	3492.6	3240.8	3244.1	3326.9	3416.4	3399.8
25°	8721.5	8065.4	6723.4	5195.8	3744.4	3204.3	3124.8	3114.8	3177.8	3224.2	3230.8
27.5°	8661.9	7939.5	6382.1	4559.6	3293.8	3012.1	2995.5	3002.2	3022.1	3114.8	3085.0
30°	8857.4	7976.0	5954.6	4026.1	3045.2	2949.2	2929.3	2919.3	2949.2	2975.7	2952.5
32.5°	9099.3	7846.7	5636.5	3512.5	2922.6	2902.8	2863.0	2849.7	2866.3	2839.8	2853.1
35°	9205.3	7823.5	5222.3	3144.7	2826.5	2810.0	2786.8	2783.5	2786.8	2763.6	2743.7
37.5°	9265.0	7932.9	4748.5	2975.7	2766.9	2783.5	2730.5	2723.8	2664.2	2677.4	2687.4
40°	9367.7	7763.9	4364.1	2813.3	2730.5	2697.3	2650.9	2641.0	2601.2	2578.0	2601.2
42.5°	9218.6	7714.2	3986.3	2743.7	2677.4	2641.0	2607.8	2551.5	2538.3	2518.4	2505.1
45°	9099.3	7429.2	3648.3	2657.6	2614.5	2594.6	2531.6	2472.0	2422.3	2442.2	2412.3
47.5°	9188.8	7329.8	3313.7	2584.6	2528.3	2505.1	2442.2	2395.8	2346.1	2322.9	2316.2
50°	9546.6	7515.4	3032.0	2531.6	2455.4	2442.2	2359.3	2306.3	2259.9	2243.3	2250.0
52.5°	10401.6	8022.4	2839.8	2422.3	2385.8	2326.2	2279.8	2213.5	2183.7	2130.7	2163.8
55°	11485.1	8847.5	2790.1	2319.6	2299.7	2246.7	2183.7	2134.0	2077.7	2034.6	2024.6
56°	11833.1	9241.8	2750.3	2279.8	2246.7	2216.8	2134.0	2104.2	2014.7	2004.8	1998.1
57.5°	12114.7	9589.7	2757.0	2203.6	2170.4	2143.9	2094.2	2021.3	1961.7	1925.2	1941.8
60°	11478.5	8976.7	2631.0	2087.6	2081.0	2031.3	1961.7	1928.5	1855.6	1812.6	1802.6
62.5°	8532.7	6093.8	2134.0	1938.5	1935.2	1882.2	1802.6	1766.2	1752.9	1693.3	1693.3
65°	4914.1	3820.6	1845.7	1815.9	1789.4	1736.4	1656.8	1627.0	1593.9	1574.0	1557.4
67.5°	2097.5	1981.6	1676.7	1673.4	1643.6	1577.3	1497.8	1451.4	1408.3	1368.5	1388.4
70°	1521.0	1544.2	1514.3	1497.8	1461.3	1378.5	1308.9	1252.6	1186.3	1159.8	1179.7
72.5°	1206.2	1255.9	1299.0	1302.3	1259.2	1163.1	1086.9	1010.7	937.8	901.3	917.9
75°	914.6	947.7	990.8	1000.7	937.8	871.5	798.6	719.1	662.7	619.7	626.3
77.5°	659.4	652.8	692.6	685.9	656.1	609.7	543.4	470.5	407.6	367.8	371.1
80°	450.7	460.6	483.8	480.5	444.0	414.2	364.5	304.9	258.5	225.3	218.7
82.5°	314.8	331.4	351.2	334.7	304.9	275.0	238.6	195.5	159.1	132.5	125.9
85°	112.7	129.2	149.1	159.1	169.0	162.4	135.9	109.4	79.5	66.3	63.0
87.5°	23.2	26.5	29.8	29.8	29.8	26.5	23.2	23.2	19.9	9.9	9.9
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)