

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: P531828

Luminaire Tested: **GALN-SA7A-827-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531828  
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-SA7A-827-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA 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: 19641 lumens  
Efficiency: N/A  
Efficacy: 91.4 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

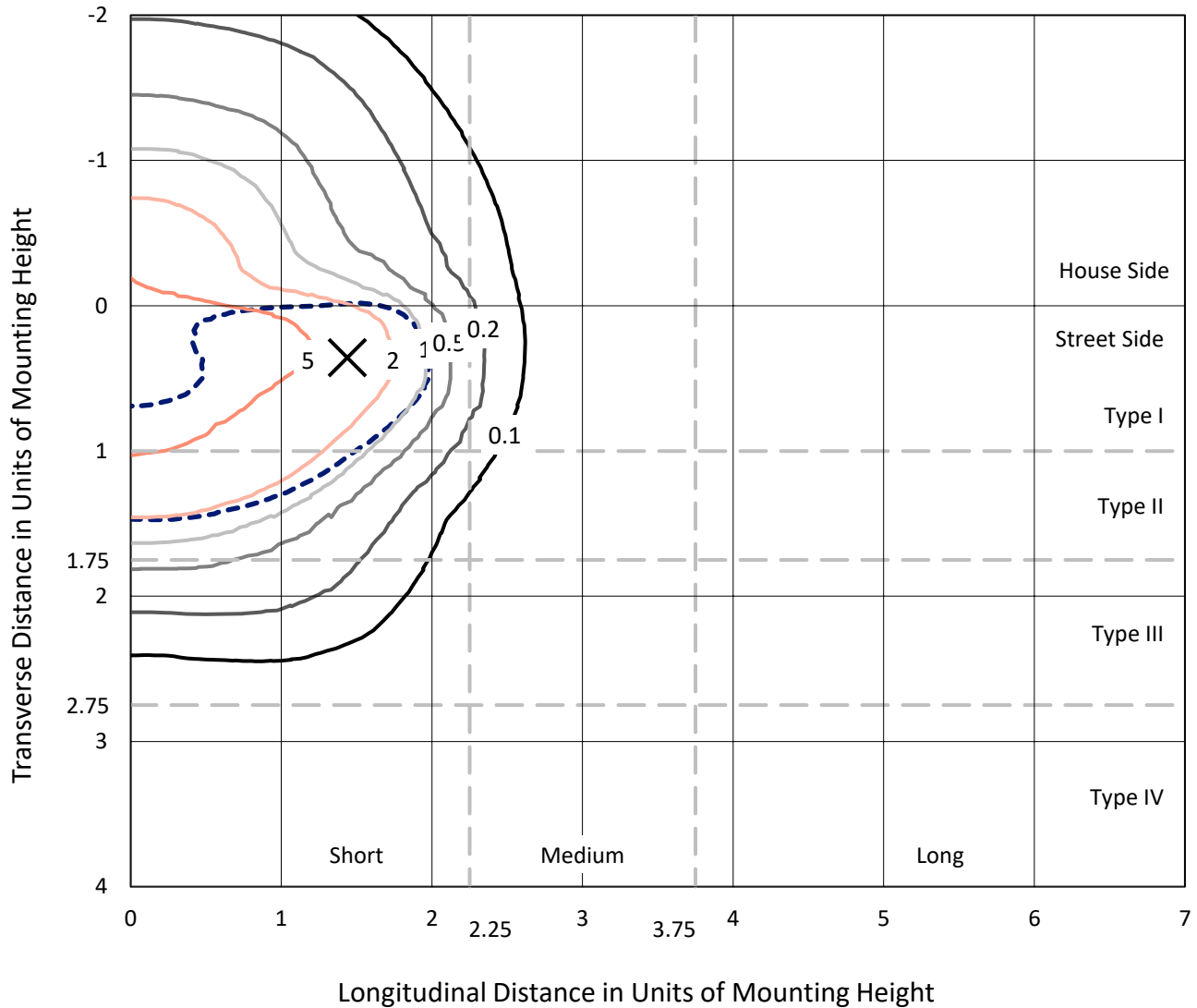
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

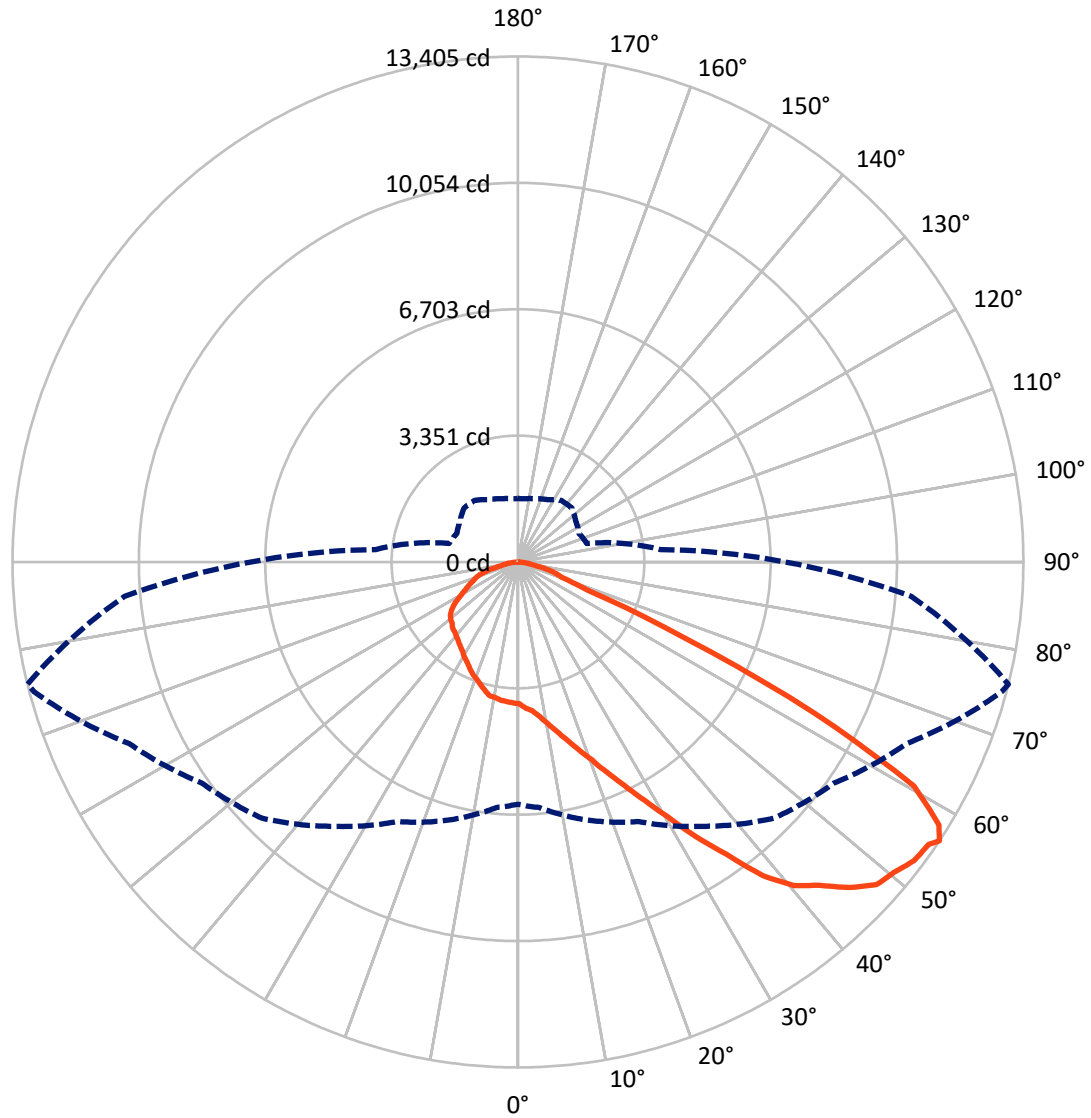
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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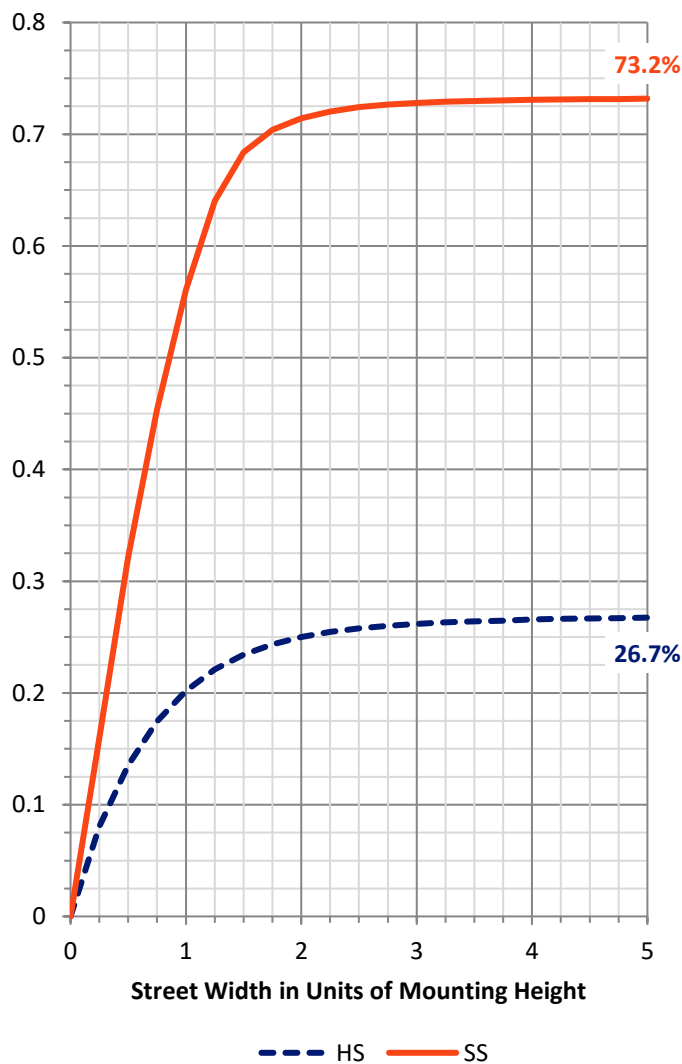
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5280.9	0.0	5280.9
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	14360.1	0.0	14360.1
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	19641.0	0.0	19641.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.7	1.9
10°-20°	1170.7	6.0
20°-30°	2047.4	10.4
30°-40°	3205.7	16.3
40°-50°	4663.4	23.7
50°-60°	5125.4	26.1
60°-70°	2287.7	11.6
70°-80°	660.8	3.4
80°-90°	107.2	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°	19641.0	100.0
0°-180°	19641.0	100.0

**Coefficient of Utilization**



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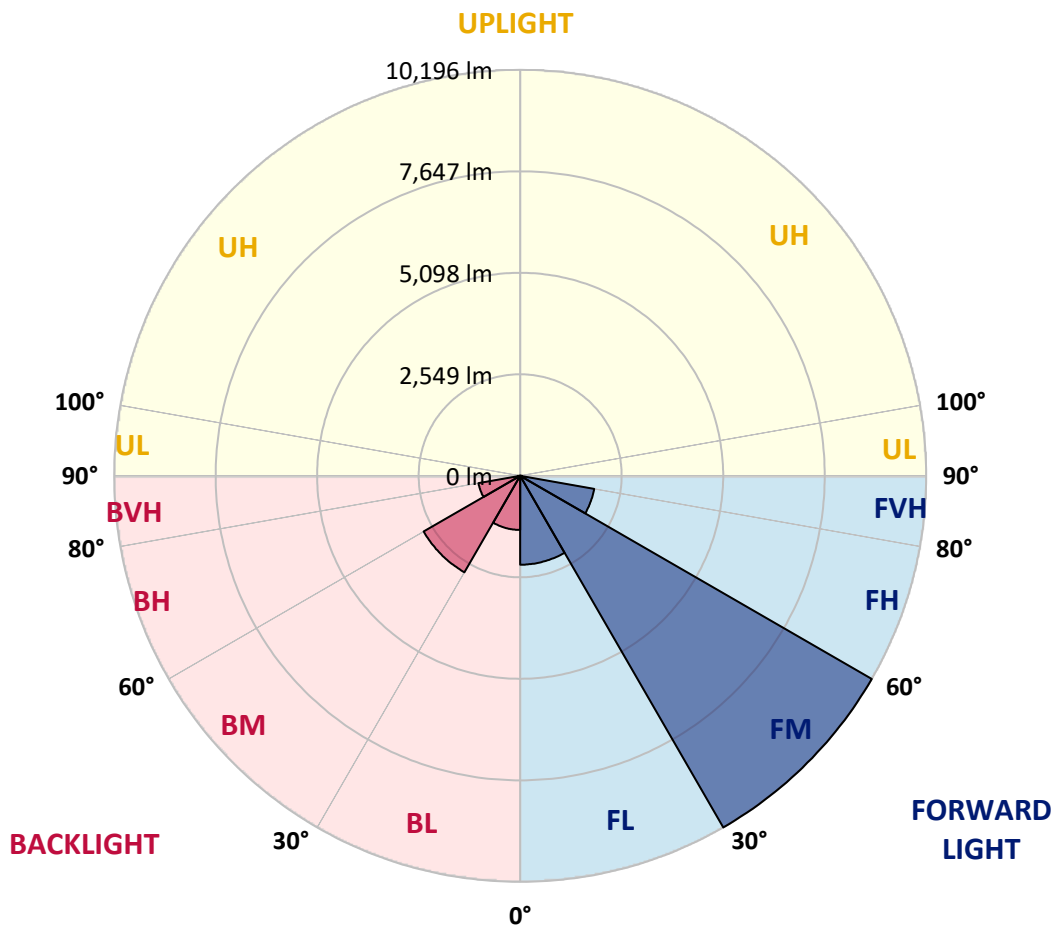
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2232.0	11.4			
FM (30°-60°)	10196.0	51.9			
FH (60°-80°)	1886.0	9.6			G2/5000
FVH (80°-90°)	46.1	0.2			G1/100
BL (0°-30°)	1358.9	6.9	B3/2500		
BM (30°-60°)	2798.4	14.2	B3/5000		
BH (60°-80°)	1062.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	61.0	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°	55°	65°	75°	76°	85°
0°	3758.1	3758.1	3758.1	3758.1	3758.1	3758.1	3758.1	3758.1	3758.1	3758.1	3758.1
2.5°	4140.0	4073.8	4068.7	4050.9	4061.0	4015.2	3966.8	3903.2	3837.0	3877.7	3781.0
5°	4430.2	4341.1	4376.8	4315.7	4323.3	4262.2	4162.9	4089.0	4007.6	3959.2	3890.5
7.5°	4532.1	4539.7	4565.2	4555.0	4504.1	4504.1	4437.9	4308.0	4165.4	4137.4	4022.8
10°	4669.6	4672.1	4644.1	4651.7	4723.0	4689.9	4631.4	4575.4	4392.0	4358.9	4155.2
12.5°	4717.9	4672.1	4717.9	4758.7	4842.7	4888.5	4875.8	4835.1	4639.0	4616.1	4318.2
15°	4725.6	4697.6	4735.8	4827.4	4901.3	5094.8	5191.5	5163.5	4903.8	4906.3	4501.5
17.5°	4689.9	4728.1	4743.4	4822.3	4992.9	5173.7	5453.8	5492.0	5278.1	5245.0	4733.2
20°	4738.3	4710.3	4730.7	4802.0	5028.6	5311.2	5677.8	5929.9	5629.4	5606.5	4972.5
22.5°	4924.2	4886.0	4880.9	4926.7	5089.7	5382.5	5914.6	6367.8	6057.2	6069.9	5270.4
25°	5069.3	5089.7	5071.8	5069.3	5171.1	5489.4	6227.8	6889.8	6637.7	6563.9	5621.8
27.5°	5318.8	5367.2	5331.5	5379.9	5357.0	5649.8	6451.8	7467.7	7264.0	7164.7	5940.1
30°	5665.1	5690.5	5657.4	5657.4	5588.7	5873.9	6655.5	8071.2	7987.1	7852.2	6314.3
32.5°	6120.8	6159.0	6092.8	6054.6	6044.5	6207.4	7022.2	8666.9	8809.5	8695.0	6810.8
35°	6724.3	6701.4	6622.4	6586.8	6449.3	6719.2	7567.0	9351.8	9726.1	9522.4	7411.7
37.5°	7256.4	7220.8	7215.7	7017.1	7050.2	7271.7	8030.4	9871.3	10614.7	10556.2	8045.7
40°	7752.9	7786.0	7839.5	7727.4	7676.5	7920.9	8570.2	10268.4	11304.7	11281.8	8534.5
42.5°	8285.0	8254.5	8348.7	8254.5	8178.1	8524.4	9155.8	10543.4	11910.7	11722.3	9046.3
45°	9056.5	8959.7	8992.8	9000.5	8944.5	9071.8	9397.7	10742.0	12335.9	12315.5	9420.6
47.5°	9700.7	9703.2	9647.2	9603.9	9433.3	9560.6	9667.6	10866.8	12824.7	12791.6	9565.7
50°	9940.0	9906.9	10069.9	10164.1	10174.2	9914.5	9878.9	10935.5	13081.9	12936.8	9710.9
52.5°	9079.4	9110.0	9367.1	9927.3	10250.6	10278.6	10125.9	11078.1	13186.3	13155.7	9828.0
55°	7307.3	7455.0	7877.7	8524.4	9290.7	10133.5	10393.2	11225.8	13242.3	13216.8	10347.4
56°	6423.8	6538.4	7088.4	7595.0	8557.5	9606.5	10225.2	11383.6	13285.6	13405.3	10469.6
57.5°	5171.1	5303.5	5698.2	6273.6	7409.2	8603.3	9761.8	11190.1	13117.5	13163.4	10558.7
60°	3233.6	3246.3	3719.9	4099.2	4898.7	6064.8	7449.9	9736.3	12139.8	12073.6	9484.2
62.5°	2120.9	2123.5	2553.7	2864.4	3228.5	3495.8	4384.4	6456.9	8957.2	8840.1	6752.3
65°	1489.5	1522.6	1856.1	2271.1	2418.8	2278.8	2250.8	3404.1	5003.1	4835.1	3628.2
67.5°	1089.7	1092.3	1387.6	1833.2	2047.1	1733.9	1408.0	1662.6	1980.9	1975.8	1680.4
70°	720.5	751.1	977.7	1369.8	1614.2	1392.7	1150.8	1189.0	1260.3	1260.3	1250.1
72.5°	420.1	448.1	598.3	868.2	906.4	870.8	911.5	1018.4	1064.3	1061.7	1049.0
75°	239.3	252.1	285.2	361.5	450.7	532.1	669.6	771.5	817.3	845.3	812.2
77.5°	140.0	147.7	168.0	206.2	234.2	287.7	364.1	435.4	496.5	488.9	493.9
80°	73.8	73.8	94.2	122.2	163.0	203.7	241.9	282.6	315.7	323.4	331.0
82.5°	43.3	45.8	61.1	89.1	117.1	145.1	185.9	213.9	244.4	247.0	252.1
85°	22.9	25.5	38.2	58.6	78.9	89.1	91.7	86.6	94.2	89.1	101.8
87.5°	7.6	7.6	12.7	10.2	10.2	12.7	15.3	15.3	20.4	20.4	20.4
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°	3758.1	3758.1	3758.1	3758.1	3758.1	3758.1	3758.1	3758.1	3758.1	3758.1	3758.1
2.5°	3778.4	3778.4	3735.1	3653.7	3640.9	3607.8	3577.3	3574.7	3551.8	3531.4	3521.3
5°	3849.7	3770.8	3707.1	3633.3	3546.7	3506.0	3460.2	3409.2	3388.9	3409.2	3406.7
7.5°	3931.2	3865.0	3674.0	3536.5	3437.2	3396.5	3345.6	3292.1	3297.2	3297.2	3261.6
10°	4010.1	3921.0	3615.5	3439.8	3294.7	3264.1	3236.1	3256.5	3281.9	3287.0	3264.1
12.5°	4142.5	3941.4	3587.5	3343.0	3251.4	3185.2	3203.0	3259.0	3312.5	3297.2	3315.0
15°	4241.8	3959.2	3460.2	3243.7	3129.2	3159.7	3223.4	3261.6	3350.7	3340.5	3358.3
17.5°	4338.6	3969.4	3335.4	3111.3	3063.0	3147.0	3195.4	3304.8	3332.9	3394.0	3416.9
20°	4537.2	3989.7	3208.1	3029.9	3014.6	3111.3	3195.4	3246.3	3307.4	3360.9	3360.9
22.5°	4639.0	3979.6	3124.1	2922.9	2971.3	3032.4	3108.8	3195.4	3195.4	3246.3	3248.8
25°	4766.3	3938.8	2991.7	2872.0	2907.7	2966.2	3052.8	3022.2	3055.3	3055.3	3096.1
27.5°	4911.4	3852.3	2877.1	2780.3	2851.6	2915.3	2928.0	2907.7	2869.5	2864.4	2849.1
30°	5028.6	3745.3	2793.1	2749.8	2808.4	2844.0	2803.3	2760.0	2693.8	2688.7	2653.0
32.5°	5189.0	3612.9	2688.7	2673.4	2739.6	2742.2	2729.4	2663.2	2566.5	2525.7	2485.0
35°	5458.9	3536.5	2609.8	2632.7	2653.0	2645.4	2622.5	2551.2	2454.4	2436.6	2421.3
37.5°	5657.4	3480.5	2528.3	2556.3	2574.1	2584.3	2515.6	2436.6	2439.2	2403.5	2393.3
40°	5881.5	3444.9	2462.1	2474.8	2477.4	2510.5	2426.4	2388.2	2406.1	2383.2	2398.4
42.5°	6169.2	3455.1	2393.3	2383.2	2431.5	2418.8	2378.1	2327.1	2337.3	2268.6	2278.8
45°	6322.0	3523.8	2352.6	2306.8	2360.2	2357.7	2304.2	2255.9	2194.7	2062.3	2067.4
47.5°	6423.8	3541.6	2255.9	2225.3	2281.3	2314.4	2253.3	2141.3	2054.7	1960.5	1937.6
50°	6528.2	3574.7	2210.0	2146.4	2169.3	2248.2	2171.8	2064.9	1980.9	1896.8	1909.6
52.5°	6619.9	3638.4	2120.9	2026.7	2067.4	2154.0	2113.3	1983.4	1891.8	1823.0	1802.6
55°	7027.3	3781.0	1970.7	1848.5	1945.2	2054.7	2031.8	1873.9	1774.6	1739.0	1733.9
56°	7090.9	3786.1	1891.8	1787.4	1876.5	2021.6	1993.6	1825.6	1736.4	1680.4	1683.0
57.5°	7101.1	3725.0	1779.7	1731.4	1807.7	1973.2	1937.6	1787.4	1665.2	1614.2	1599.0
60°	6248.1	2907.7	1639.7	1609.1	1698.3	1825.6	1812.8	1683.0	1545.5	1486.9	1514.9
62.5°	4259.6	2131.1	1530.2	1525.1	1570.9	1695.7	1662.6	1545.5	1430.9	1392.7	1374.9
65°	2479.9	1616.8	1423.3	1402.9	1441.1	1507.3	1530.2	1408.0	1288.3	1262.9	1255.2
67.5°	1464.0	1336.7	1285.8	1252.7	1240.0	1280.7	1298.5	1227.2	1107.6	1071.9	1102.5
70°	1224.7	1189.0	1191.6	1135.6	1105.0	1077.0	1061.7	998.1	898.8	852.9	840.2
72.5°	1056.6	1041.4	1031.2	980.3	952.2	888.6	822.4	758.7	684.9	646.7	649.3
75°	807.1	802.0	807.1	781.7	733.3	682.4	621.2	539.8	483.8	435.4	445.6
77.5°	481.2	496.5	504.1	493.9	473.6	427.7	389.6	336.1	282.6	244.4	239.3
80°	331.0	343.7	356.5	343.7	323.4	290.3	249.5	208.8	170.6	150.2	145.1
82.5°	252.1	264.8	272.4	259.7	234.2	198.6	170.6	142.6	112.0	91.7	86.6
85°	91.7	104.4	101.8	122.2	132.4	127.3	109.5	84.0	63.7	45.8	43.3
87.5°	25.5	22.9	25.5	25.5	25.5	22.9	20.4	20.4	20.4	12.7	10.2
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)