

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: P647068

Luminaire Tested: **GALN-SA7C-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647068  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22617.7 lumens  
Efficiency: N/A  
Efficacy: 60.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

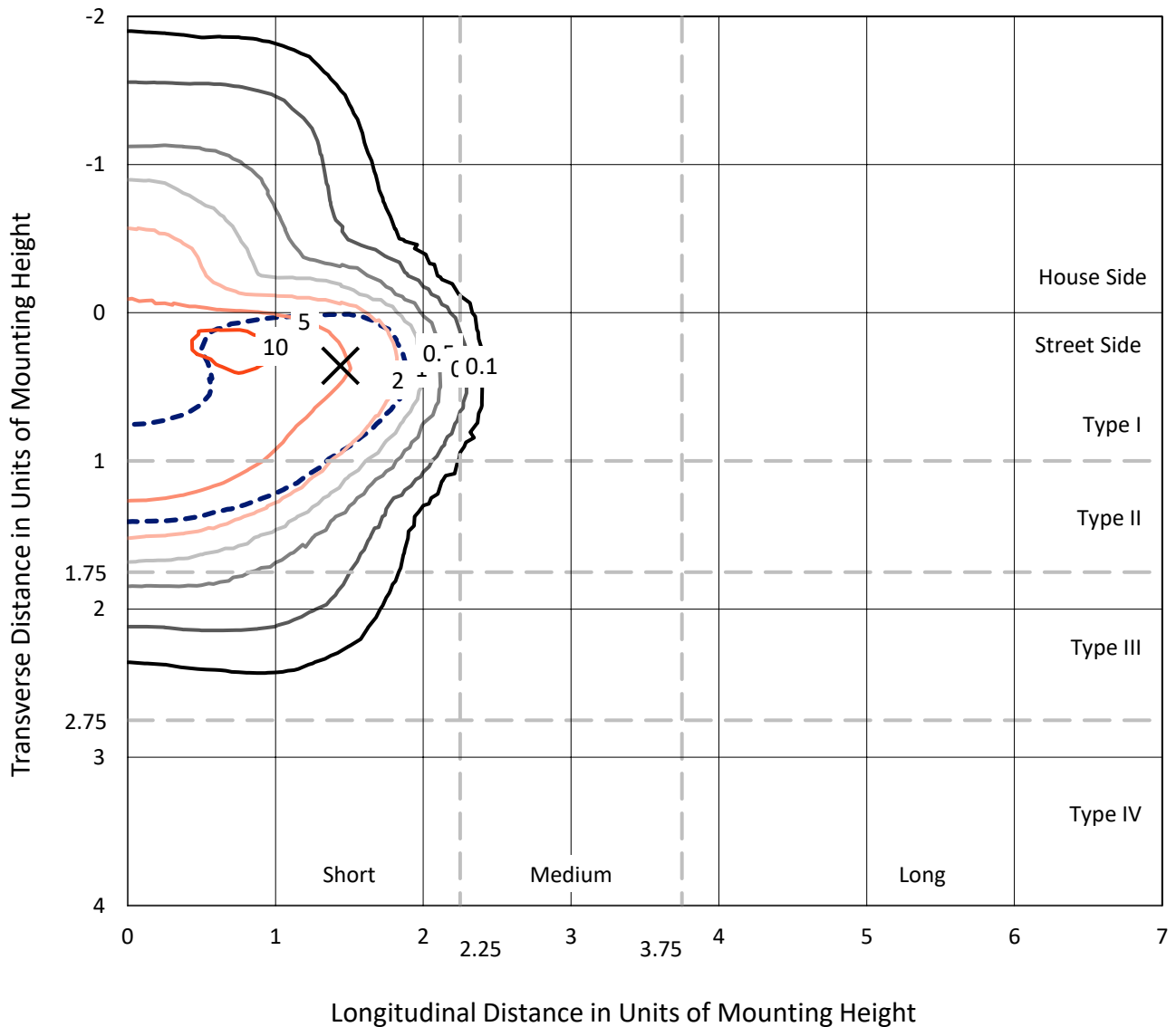
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

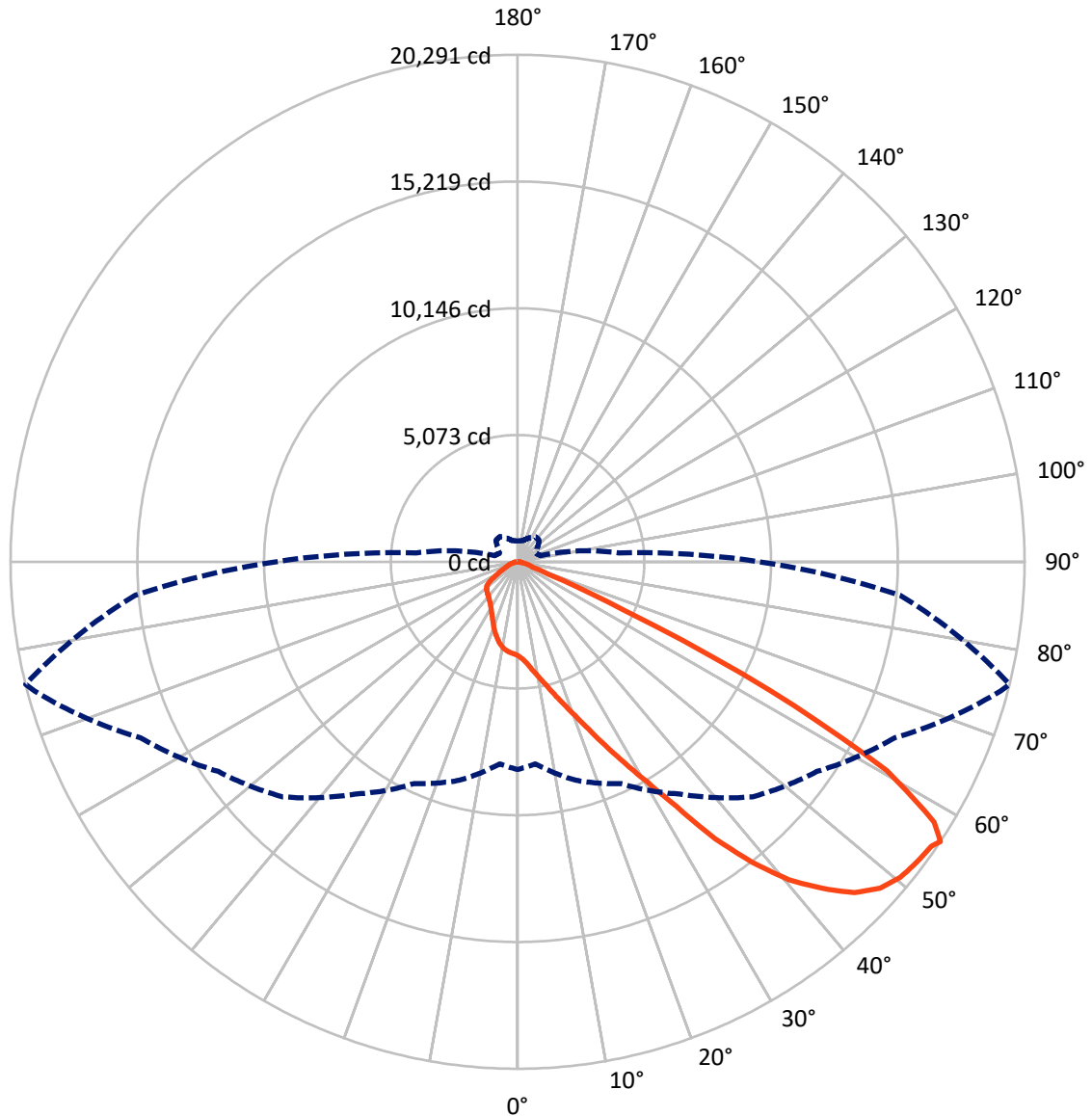
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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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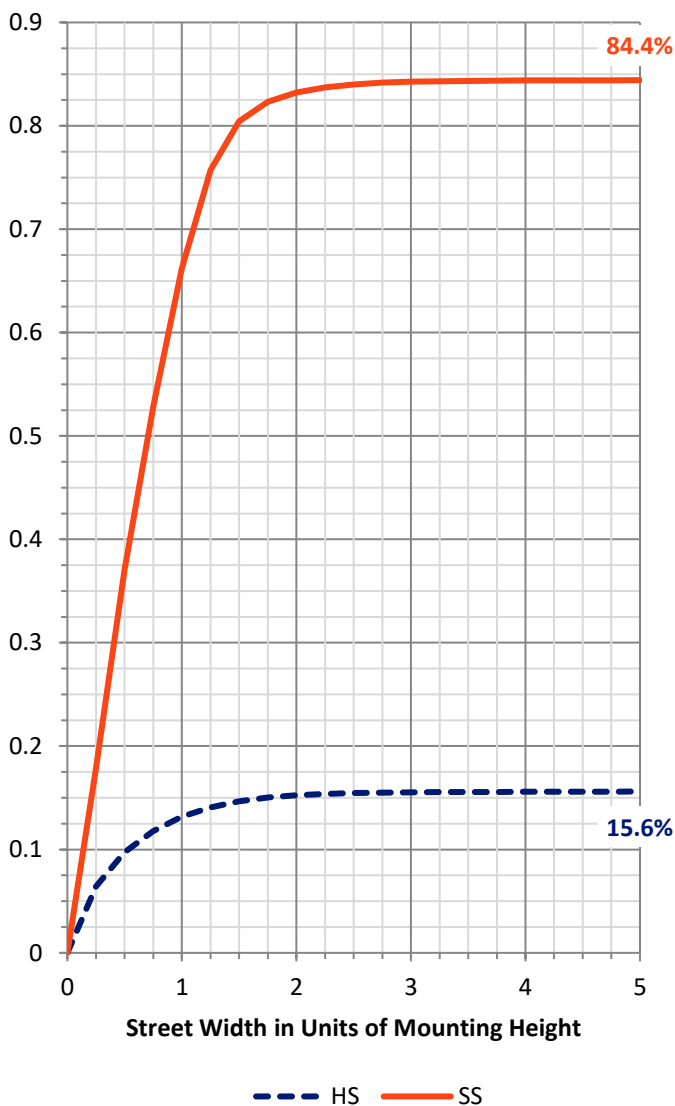
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3553.1	0.0	3553.1
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	19064.6	0.0	19064.6
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	22617.7	0.0	22617.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.2	1.7
10°-20°	1218.4	5.4
20°-30°	2209.2	9.8
30°-40°	3810.0	16.8
40°-50°	6189.4	27.4
50°-60°	6523.8	28.8
60°-70°	1993.3	8.8
70°-80°	255.5	1.1
80°-90°	38.8	0.2
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°	22617.7	100.0
0°-180°	22617.7	100.0

**Coefficient of Utilization**

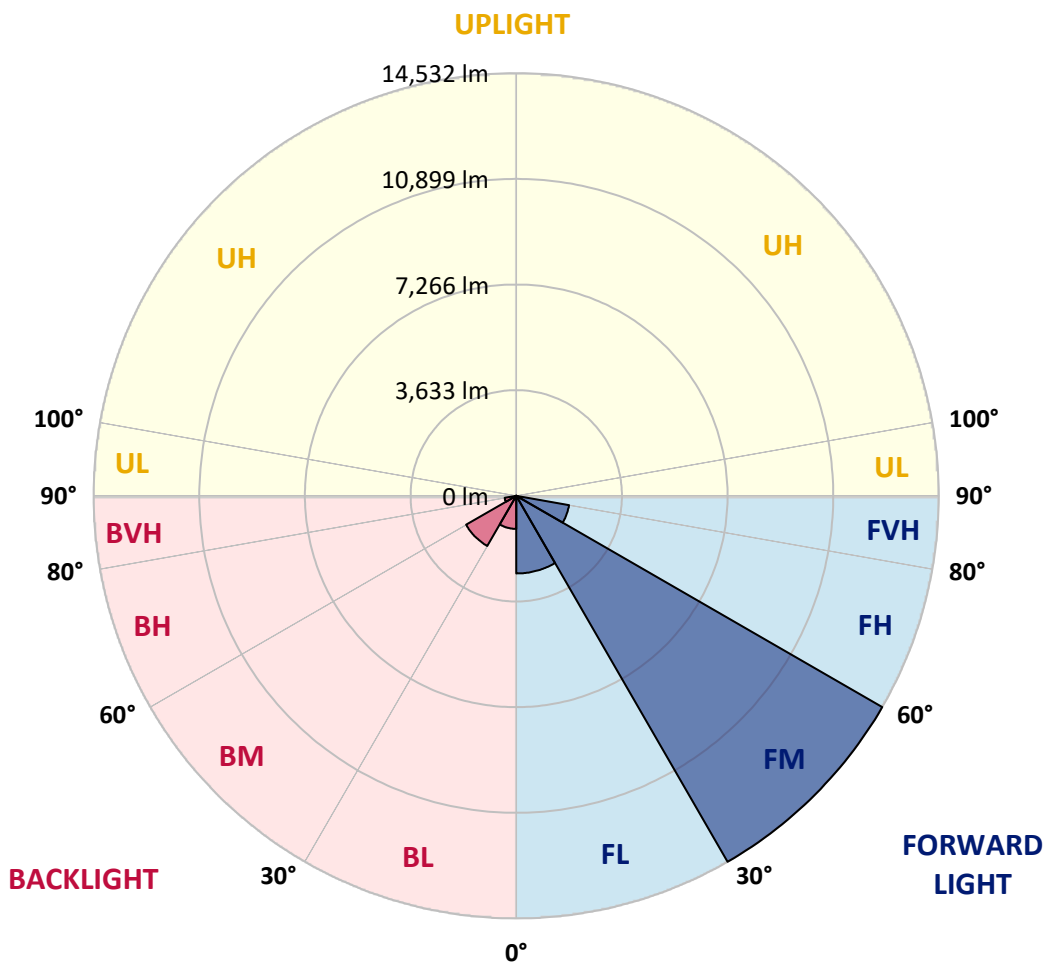


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2670.2	11.8			
FM (30°-60°)	14531.9	64.2			
FH (60°-80°)	1843.5	8.2			G2/5000
FVH (80°-90°)	19.0	0.1			G1/100
BL (0°-30°)	1136.7	5.0	B3/2500		
BM (30°-60°)	1991.3	8.8	B2/2500		
BH (60°-80°)	405.3	1.8	B1/500		G1/500
BVH (80°-90°)	19.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7
2.5°	4335.9	4235.9	4240.0	4231.7	4219.2	4173.3	4035.7	4014.9	3923.2	3898.2	3814.8
5°	4857.1	4769.5	4819.5	4744.5	4673.6	4631.9	4406.8	4302.6	4156.6	4102.5	3985.7
7.5°	5182.3	5140.6	5123.9	5128.1	5061.4	4957.2	4857.1	4627.8	4431.9	4390.1	4144.2
10°	5340.7	5315.7	5340.7	5328.2	5357.4	5369.9	5194.8	5057.2	4769.5	4698.6	4315.1
12.5°	5378.2	5428.2	5449.1	5503.3	5574.2	5695.1	5682.5	5494.9	5111.4	5065.5	4577.7
15°	5470.0	5511.6	5490.8	5578.3	5711.8	5916.0	6024.5	5995.3	5582.5	5499.2	4882.1
17.5°	5553.3	5478.3	5549.1	5724.3	5857.7	6170.4	6433.0	6553.9	6095.3	5999.4	5161.5
20°	5665.9	5645.0	5632.5	5720.1	5957.8	6374.6	6895.8	7116.8	6670.7	6570.6	5561.6
22.5°	6007.8	6012.0	6003.6	5874.4	6045.3	6516.4	7300.2	7846.4	7358.6	7275.2	6016.1
25°	6458.0	6403.8	6362.1	6257.9	6237.1	6645.6	7708.8	8738.6	8184.1	8125.7	6508.1
27.5°	6933.3	6933.3	6808.3	6712.3	6578.9	6966.7	8084.0	9605.8	9180.5	9101.3	6937.5
30°	7450.3	7479.5	7462.8	7258.5	7175.1	7316.9	8467.6	10714.7	10322.8	10222.8	7646.2
32.5°	8213.3	8150.7	8221.6	8050.6	7804.7	7929.8	9072.1	11707.0	11807.1	11665.3	8576.0
35°	9222.2	9184.7	9138.8	8859.5	8567.7	8667.7	9926.8	12928.6	13670.7	13599.8	9514.0
37.5°	10126.9	10106.0	10068.5	9876.8	9539.1	9659.9	10898.2	14200.2	15488.4	15255.0	10839.9
40°	11077.5	11190.0	11069.1	10898.2	10589.7	10856.5	12040.6	14954.8	17018.5	16735.1	11853.0
42.5°	12365.8	12278.2	12332.4	12019.7	11853.0	12144.8	13187.1	15709.4	18206.7	17869.1	12928.6
45°	13737.4	13741.6	13595.6	13495.6	13062.0	13378.9	13891.7	16126.4	19153.1	18890.5	13741.6
47.5°	14617.1	14612.9	14771.4	14929.8	14483.7	14171.0	14371.1	16522.4	19640.9	19520.0	14037.5
50°	14479.5	14521.2	14725.5	15317.5	15551.0	15129.9	14821.4	16405.7	19861.9	19849.4	14291.9
52.5°	12595.0	12732.6	13074.5	13929.2	15104.9	15626.0	15292.5	16622.5	19970.3	19991.2	14671.3
55°	9589.1	9664.1	10314.5	11352.6	12653.4	14437.8	15104.9	16793.4	20053.6	20091.2	15129.9
56°	8317.5	8117.4	9055.4	9793.4	11348.5	13299.6	14629.6	16660.0	20003.7	20291.4	15359.2
57.5°	6278.8	6145.4	6904.1	7825.5	9322.2	11381.8	13153.7	16030.4	19666.0	19661.8	15029.8
60°	3818.9	3685.6	4269.2	4811.2	5649.2	7008.4	8888.7	12766.0	16626.6	16976.8	12169.8
62.5°	2272.2	2355.6	2930.9	3260.3	3531.3	3673.1	4598.6	7587.9	11094.2	11344.3	7550.4
65°	1513.4	1542.6	1976.2	2518.2	2639.1	2101.3	1871.9	3072.6	4811.2	4657.0	3114.4
67.5°	933.9	1000.6	1325.8	1892.8	2097.1	1534.3	888.0	1146.5	1325.8	1325.8	900.5
70°	567.0	600.3	883.9	1288.3	1438.4	988.1	646.2	646.2	637.9	625.4	537.8
72.5°	271.0	291.8	450.3	662.9	675.4	521.2	500.3	546.1	533.6	529.5	446.1
75°	116.7	125.0	158.4	208.4	237.6	221.0	304.4	391.9	404.4	391.9	321.0
77.5°	37.5	41.7	58.3	75.0	79.2	95.9	129.3	162.6	187.6	175.1	158.4
80°	4.1	8.3	16.7	37.5	58.3	75.0	95.9	108.4	120.9	120.9	112.6
82.5°	4.1	4.1	16.7	33.4	54.2	70.9	91.7	104.2	120.9	125.0	116.7
85°	0.0	4.1	12.5	29.2	45.9	45.9	41.7	41.7	29.2	29.2	29.2
87.5°	0.0	0.0	4.1	4.1	4.1	8.3	8.3	8.3	8.3	8.3	8.3
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°	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7
2.5°	3798.1	3789.8	3677.2	3606.3	3568.8	3493.7	3447.9	3414.6	3389.5	3360.3	3364.6
5°	3848.1	3818.9	3631.3	3502.1	3347.9	3264.5	3193.5	3135.2	3097.7	3089.3	3072.6
7.5°	3989.9	3835.6	3552.2	3318.7	3122.7	3039.3	2976.8	2939.2	2955.9	2918.4	2947.6
10°	4098.3	3869.0	3456.2	3118.5	2922.5	2860.1	2826.7	2855.9	2897.6	2880.9	2860.1
12.5°	4231.7	3902.3	3302.0	2926.8	2743.3	2697.4	2755.8	2810.0	2893.4	2926.8	2885.0
15°	4381.8	3939.9	3106.0	2705.8	2589.1	2626.6	2726.6	2822.6	2905.9	2947.6	2972.6
17.5°	4565.2	3927.4	2914.2	2530.7	2443.1	2551.6	2672.5	2760.0	2885.0	2947.6	2930.9
20°	4736.2	3885.6	2701.6	2355.6	2359.7	2459.8	2559.9	2701.6	2768.3	2851.7	2822.6
22.5°	4898.8	3810.6	2480.6	2234.7	2234.7	2388.9	2439.0	2530.7	2589.1	2630.7	2626.6
25°	5128.1	3668.9	2297.2	2117.9	2168.0	2268.0	2309.7	2338.9	2313.9	2347.3	2351.4
27.5°	5290.7	3523.0	2147.1	2013.7	2105.4	2180.5	2168.0	2151.3	2093.0	2047.1	2076.3
30°	5465.8	3352.0	2017.9	1942.9	1992.9	2059.6	2009.6	1959.5	1867.8	1792.8	1796.9
32.5°	5715.9	3272.8	1905.3	1859.5	1926.2	1934.5	1880.3	1805.3	1713.5	1642.7	1638.5
35°	6182.9	3222.7	1809.4	1805.3	1817.7	1822.0	1767.7	1676.0	1638.5	1580.1	1600.9
37.5°	6649.8	3197.8	1742.7	1726.0	1721.9	1726.0	1663.5	1575.9	1646.8	1642.7	1651.0
40°	7246.0	3310.3	1646.8	1626.0	1630.1	1630.1	1551.0	1525.9	1651.0	1663.5	1667.6
42.5°	7850.5	3452.1	1584.2	1517.6	1534.3	1534.3	1492.6	1463.3	1551.0	1467.6	1455.0
45°	8375.8	3660.5	1517.6	1409.2	1450.9	1471.7	1459.2	1409.2	1355.0	1213.3	1213.3
47.5°	8546.8	3844.0	1438.4	1304.9	1338.3	1430.0	1392.5	1288.3	1192.4	1075.6	1067.3
50°	8847.0	4044.1	1375.8	1184.1	1254.9	1367.5	1329.9	1225.7	1117.3	1034.0	1038.1
52.5°	9155.5	4273.4	1259.1	1042.3	1129.9	1317.5	1317.5	1200.7	1034.0	975.6	967.2
55°	9618.3	4265.1	1050.6	854.6	1009.0	1242.4	1263.3	1075.6	925.6	879.7	879.7
56°	9685.0	4073.2	946.4	800.5	954.7	1221.6	1225.7	1042.3	883.9	833.8	833.8
57.5°	9184.7	3677.2	829.7	733.7	888.0	1184.1	1188.2	1013.1	850.5	779.6	771.3
60°	7066.7	2489.0	692.1	654.6	804.6	1067.3	1088.1	921.4	746.3	692.1	687.9
62.5°	3989.9	1380.0	608.7	592.0	692.1	908.9	971.4	804.6	633.7	604.6	612.9
65°	1822.0	758.8	512.8	479.4	558.7	700.4	783.8	662.9	521.2	487.8	487.8
67.5°	667.0	517.0	437.8	379.4	391.9	454.5	508.6	429.4	346.0	296.0	308.5
70°	475.3	433.6	383.6	329.3	304.4	296.0	291.8	241.8	170.9	133.4	141.7
72.5°	383.6	358.5	321.0	279.3	237.6	200.1	170.9	125.0	79.2	54.2	50.0
75°	275.1	262.7	233.5	200.1	166.8	141.7	116.7	79.2	41.7	20.8	20.8
77.5°	141.7	141.7	137.6	125.0	104.2	83.4	66.7	45.9	25.0	8.3	8.3
80°	108.4	116.7	120.9	108.4	95.9	75.0	54.2	33.4	16.7	4.1	4.1
82.5°	104.2	120.9	129.3	112.6	95.9	70.9	54.2	33.4	16.7	4.1	4.1
85°	25.0	25.0	37.5	41.7	54.2	58.3	45.9	29.2	12.5	4.1	4.1
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	4.1	4.1	4.1	4.1	0.0
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)