

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: P647494

Luminaire Tested: **GALN-SA6D-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647494  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-835-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30387.4 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

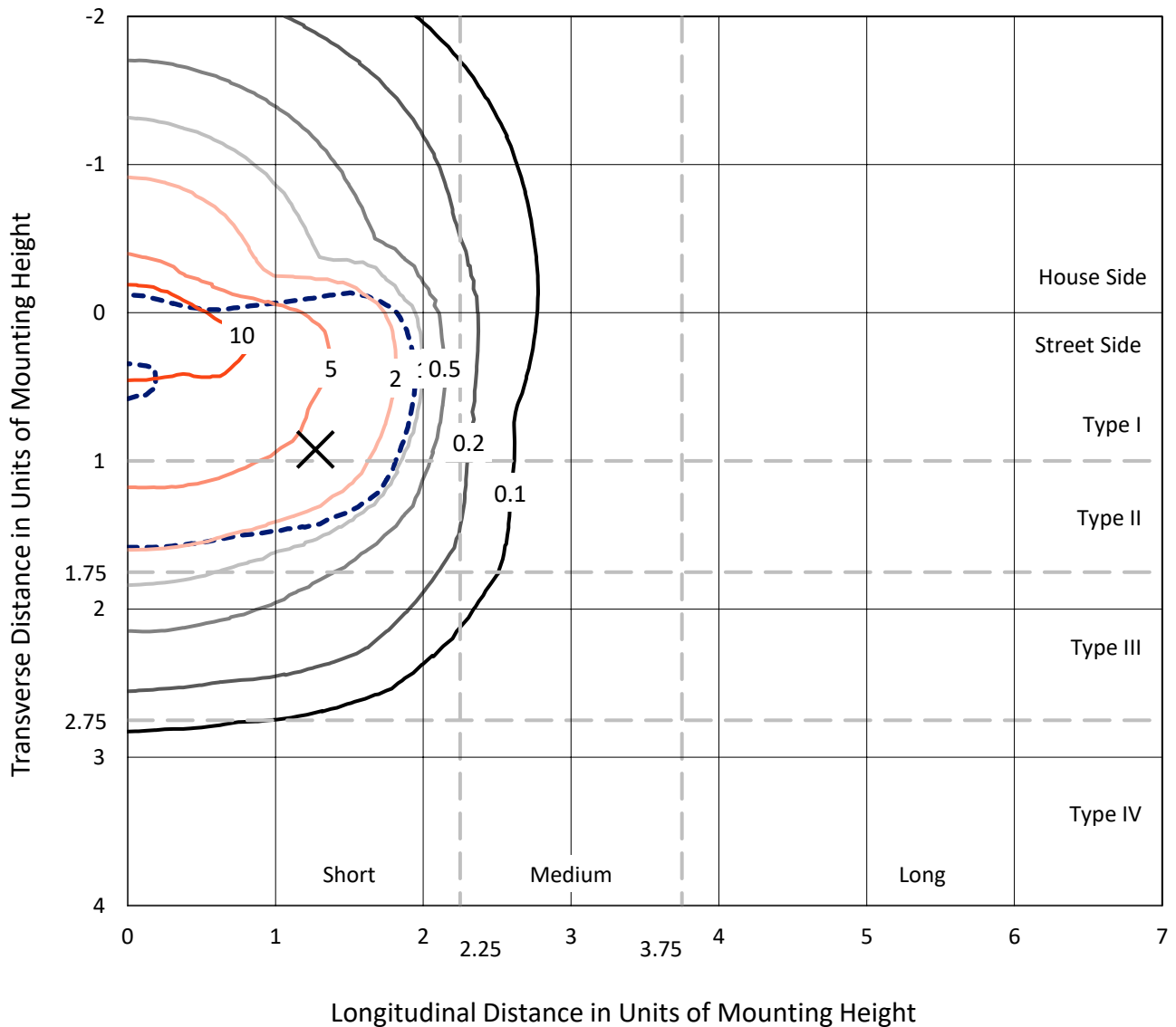
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

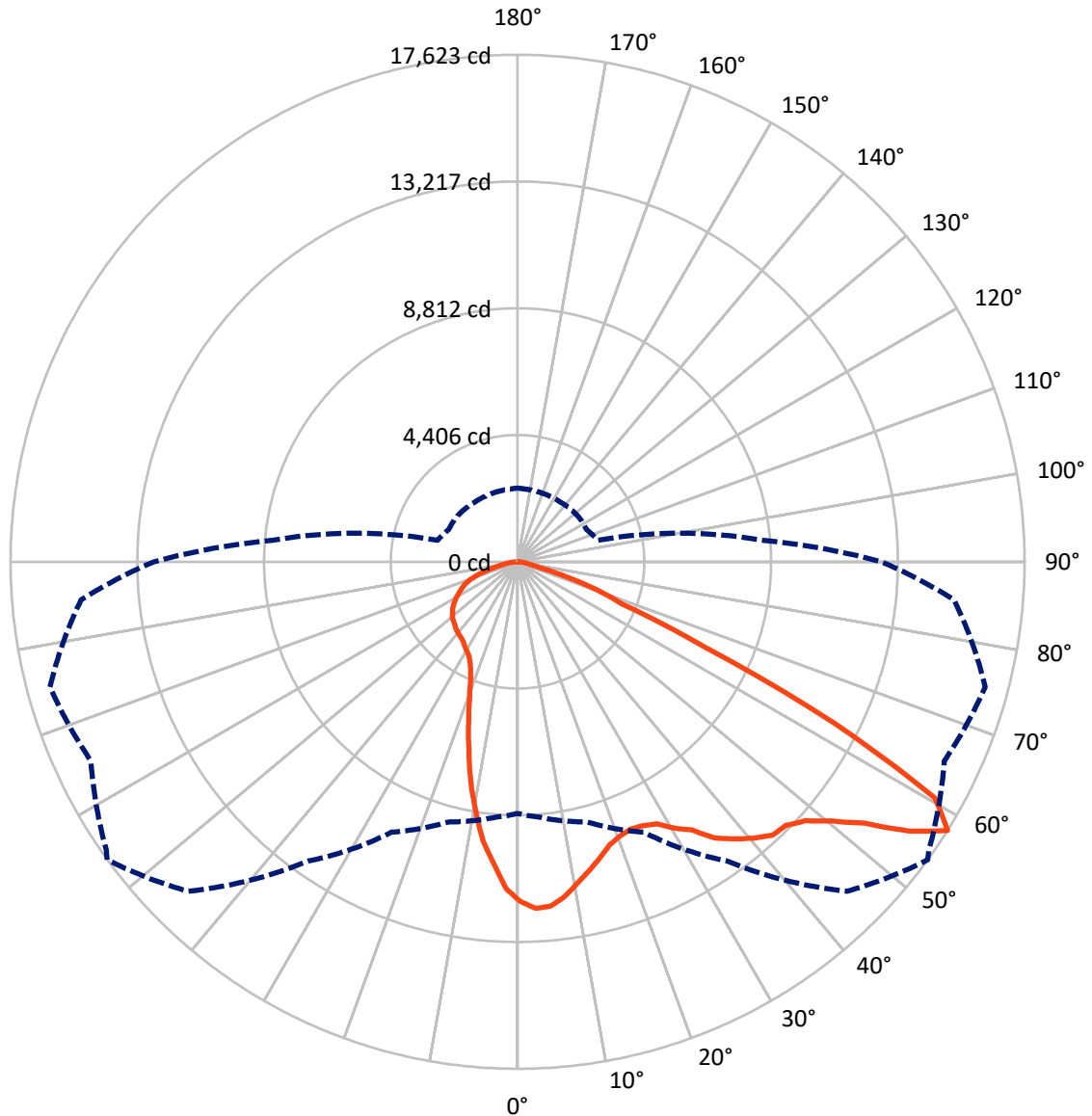
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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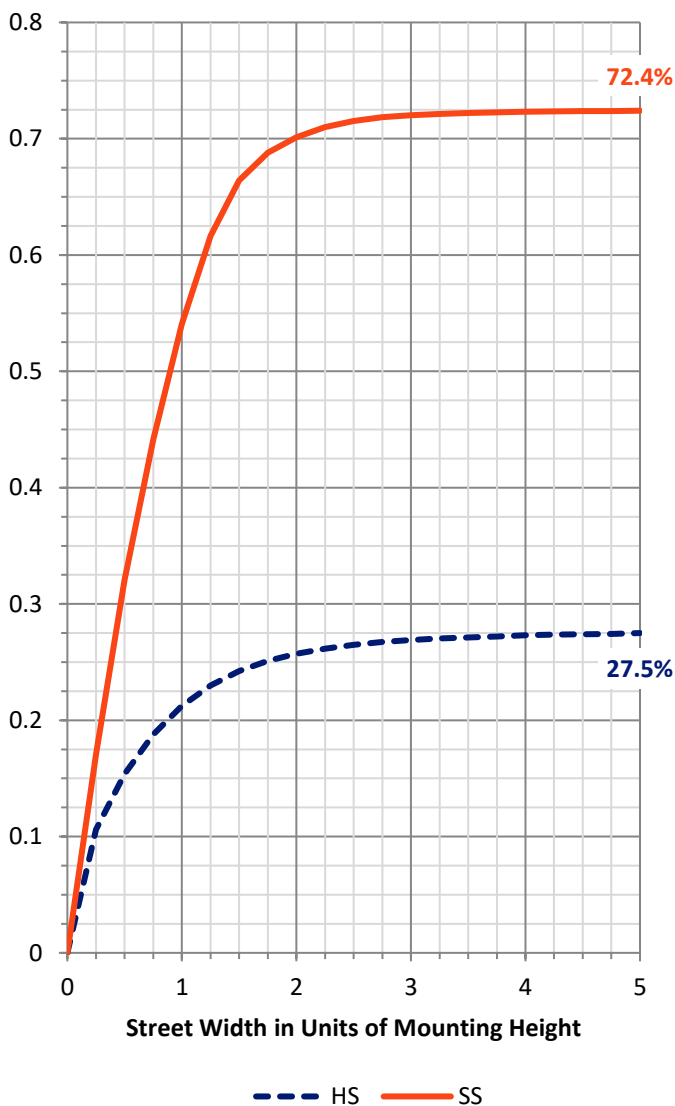
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8406.8	0.0	8406.8
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	21980.6	0.0	21980.6
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	30387.4	0.0	30387.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1018.6	3.4
10°-20°	2358.4	7.8
20°-30°	3313.6	10.9
30°-40°	4632.5	15.2
40°-50°	6271.5	20.6
50°-60°	7639.0	25.1
60°-70°	3978.7	13.1
70°-80°	1019.5	3.4
80°-90°	155.5	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°	30387.4	100.0
0°-180°	30387.4	100.0

**Coefficient of Utilization**



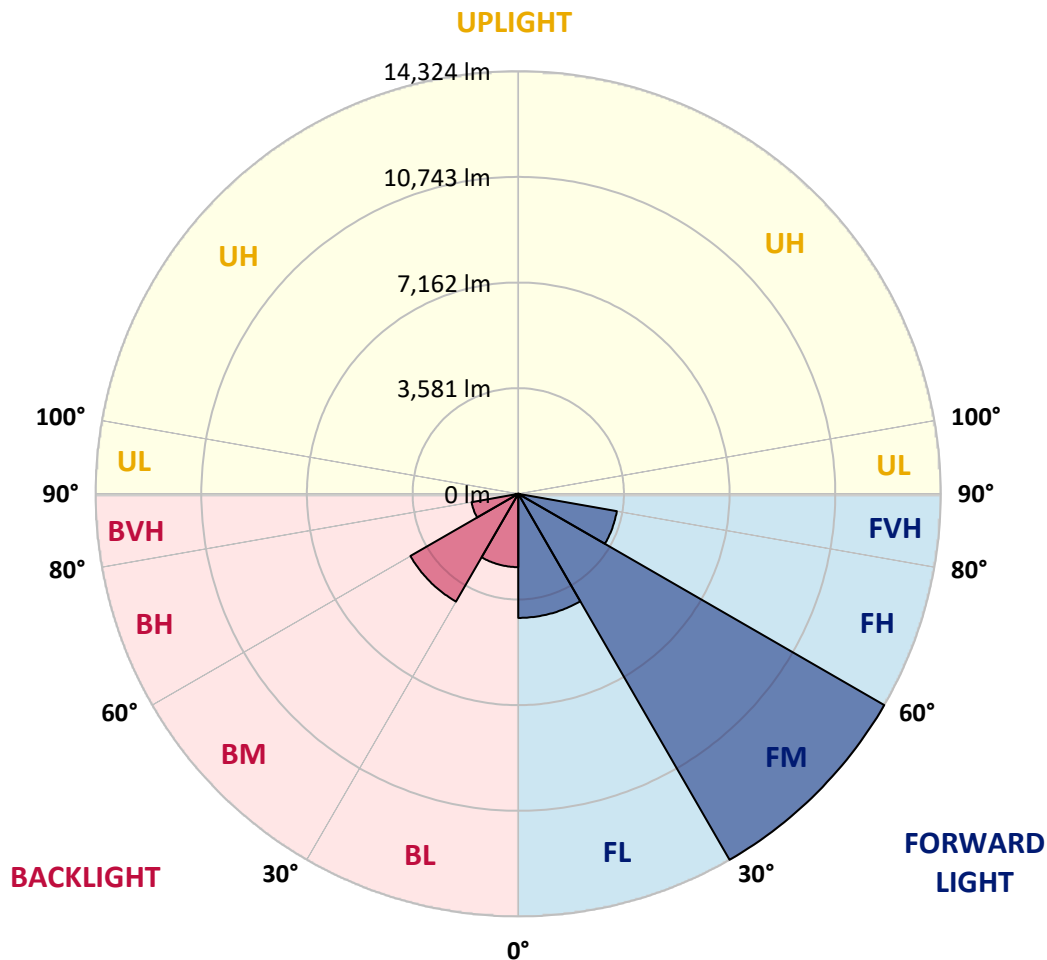
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4206.0	13.8			
FM (30°-60°)	14323.7	47.1			
FH (60°-80°)	3392.1	11.2			G2/5000
FVH (80°-90°)	58.8	0.2			G1/100
BL (0°-30°)	2484.7	8.2	B3/2500		
BM (30°-60°)	4219.3	13.9	B3/5000		
BH (60°-80°)	1606.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	96.7	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°	54°	55°	65°	75°	85°
0°	11811.2	11811.2	11811.2	11811.2	11811.2	11811.2	11811.2	11811.2	11811.2	11811.2	11811.2
2.5°	12147.1	12100.2	12108.1	12170.6	12092.5	12061.3	12061.3	11908.9	11920.6	11815.2	11787.8
5°	11865.9	11756.6	11830.8	11924.5	11940.1	11971.4	12022.2	11983.1	11873.7	11760.5	11576.9
7.5°	11131.6	11229.3	11256.6	11323.0	11463.7	11592.5	11752.7	11643.3	11639.4	11526.2	11416.8
10°	10487.2	10428.6	10577.0	10674.6	10909.0	11123.8	11369.9	11358.2	11416.8	11287.9	11100.4
12.5°	9846.6	9799.7	9870.0	10092.7	10420.8	10733.2	11026.2	10916.8	11229.3	11205.8	10803.5
15°	9167.0	9202.1	9303.7	9510.7	9940.3	10315.3	10686.4	10690.3	10967.6	11061.4	10522.3
17.5°	8690.5	8651.4	8780.3	9088.9	9471.6	9920.8	10342.6	10428.6	10854.3	10909.0	10436.4
20°	8335.0	8389.8	8557.7	8713.9	9155.3	9698.2	10174.7	10205.9	10830.9	10979.3	10299.7
22.5°	8249.1	8217.9	8272.6	8526.5	8889.7	9479.5	10084.9	10202.0	10827.0	10955.9	10041.9
25°	8159.3	8260.9	8257.0	8510.8	8776.4	9303.7	10159.1	10288.0	11034.0	11076.9	10077.1
27.5°	8362.4	8350.7	8460.1	8479.6	8807.7	9350.6	10315.3	10413.0	11377.7	11342.5	10104.4
30°	8565.5	8506.9	8573.3	8803.7	8956.1	9620.1	10745.0	10737.1	11823.0	11799.5	10190.4
32.5°	8815.5	8788.2	8831.1	9034.2	9292.0	9979.4	11108.2	11338.6	12276.0	12424.5	10487.2
35°	8862.3	8975.6	9077.2	9350.6	9717.7	10561.4	11791.7	11983.1	12799.5	13264.3	11053.5
37.5°	9159.2	9202.1	9440.4	9924.8	10260.7	11338.6	12225.3	12346.3	13275.9	13803.2	11651.1
40°	9475.6	9526.4	9885.7	10393.5	10854.3	11846.4	12631.5	12670.5	13428.3	14217.2	12041.7
42.5°	9905.2	9952.1	10307.5	10944.1	11561.3	12279.9	12990.8	13033.8	13416.5	14693.8	12662.8
45°	10350.5	10463.8	10881.7	11604.2	12158.9	12787.7	13072.8	13248.6	13525.9	15119.5	13166.6
47.5°	10975.4	11080.9	11424.6	12131.6	12779.9	13233.0	13451.7	13623.6	13787.6	15490.6	13490.8
50°	11639.4	11658.9	12076.8	12717.4	13193.9	13736.8	14158.7	14217.2	14131.3	15920.2	14041.5
52.5°	12127.7	12190.1	12514.3	13139.2	13850.1	14518.0	15096.1	15158.6	14990.6	16080.3	14229.0
55°	11319.1	11284.0	11811.2	12643.2	14291.5	15681.9	16521.7	16568.6	15615.5	16576.3	14842.2
57.5°	8749.1	8917.0	9366.2	10370.0	12697.9	16197.5	17623.1	17455.2	16365.5	16826.4	15232.8
60°	6358.7	6319.7	6620.4	7292.2	9569.3	13959.5	16662.3	16834.2	15752.2	15166.4	12561.2
62.5°	5179.2	5124.4	5147.9	5171.3	6175.1	9264.6	12334.6	12330.8	12131.6	10901.2	8471.7
65°	4140.2	4269.1	4280.8	4456.5	4585.5	5534.6	7147.7	7530.4	6557.9	5378.3	3901.9
67.5°	3120.8	3073.9	3230.1	3855.1	4097.2	3995.6	3901.9	3944.9	2804.4	2023.2	1906.1
70°	1839.7	1820.1	2007.6	2687.2	3374.7	3175.5	2941.1	2945.0	1925.6	1413.9	1574.1
72.5°	1007.7	1003.8	1042.9	1363.1	1917.8	1992.0	1765.4	1820.1	1148.3	1144.4	1230.3
75°	562.4	550.8	539.0	601.5	691.3	730.4	746.0	753.8	789.0	882.8	917.9
77.5°	207.0	199.2	199.2	230.4	292.9	367.1	464.8	472.6	558.5	640.6	675.7
80°	70.3	78.1	105.5	144.5	195.3	261.7	316.4	324.2	394.5	449.2	460.9
82.5°	43.0	46.9	70.3	101.6	140.6	183.6	234.4	238.3	292.9	328.1	343.7
85°	19.5	23.4	39.1	62.5	89.8	121.1	125.0	125.0	121.1	125.0	117.1
87.5°	0.0	0.0	7.8	7.8	7.8	11.7	15.7	11.7	19.5	23.4	23.4
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°	11811.2	11811.2	11811.2	11811.2	11811.2	11811.2	11811.2	11811.2	11811.2	11811.2	11811.2
2.5°	11705.8	11662.9	11530.1	11412.9	11377.7	11221.5	10991.0	11018.4	10850.4	10928.6	10846.5
5°	11545.6	11401.1	11061.4	10916.8	10537.9	10366.1	10248.9	9956.0	9819.3	9792.0	9674.7
7.5°	11135.5	11045.7	10620.0	10229.4	9827.1	9483.4	9042.0	8741.3	8526.5	8467.8	8296.0
10°	10811.4	10612.2	10022.4	9428.7	8854.6	8257.0	7682.8	7233.6	7014.9	6761.0	6675.1
12.5°	10491.1	10190.4	9393.6	8631.9	7889.8	7135.9	6440.7	5893.9	5417.4	5304.1	5265.0
15°	10291.9	9768.5	8831.1	7913.2	6858.7	5874.4	5179.2	4819.8	4526.8	4405.8	4491.7
17.5°	10030.2	9420.9	8292.1	7069.6	5909.5	5003.4	4421.4	4198.8	4093.3	4105.0	4069.9
20°	9702.1	9092.8	7585.2	6304.0	5061.9	4339.4	4007.4	3925.3	3941.0	3968.3	3956.6
22.5°	9467.7	8694.4	7073.5	5522.9	4374.5	3972.2	3835.5	3777.0	3827.7	3851.2	3831.6
25°	9288.1	8354.6	6452.5	4831.5	3976.2	3765.2	3702.7	3698.8	3777.0	3808.2	3788.6
27.5°	9124.1	8038.2	5835.3	4304.2	3710.6	3605.1	3585.6	3632.4	3683.2	3714.5	3741.8
30°	9026.4	7796.0	5257.2	3862.9	3577.8	3526.9	3491.8	3534.8	3562.1	3593.3	3577.8
32.5°	9120.1	7624.2	4698.7	3612.9	3468.4	3417.6	3464.5	3437.1	3484.0	3511.4	3468.4
35°	9413.1	7471.9	4300.3	3480.1	3343.4	3362.9	3370.7	3359.0	3378.6	3355.1	3405.9
37.5°	9702.1	7417.2	3933.2	3366.8	3284.8	3284.8	3277.0	3253.6	3292.6	3284.8	3308.3
40°	10069.2	7452.4	3620.7	3245.8	3230.1	3222.3	3191.0	3187.2	3171.5	3175.5	3183.3
42.5°	10389.5	7530.4	3441.1	3167.6	3179.4	3195.0	3136.4	3089.5	3109.1	3070.0	3070.0
45°	10729.4	7600.7	3280.9	3113.0	3101.2	3097.3	3050.5	3023.1	3007.5	3011.4	3046.6
47.5°	11264.5	7702.3	3159.8	3038.7	3046.6	2987.9	2976.3	2941.1	2956.7	2980.2	2984.1
50°	11643.3	7917.1	3066.1	2952.8	2980.2	2941.1	2870.8	2855.1	2855.1	2894.2	2886.5
52.5°	11908.9	8217.9	2976.3	2859.0	2870.8	2839.5	2816.1	2781.0	2757.5	2812.2	2839.5
55°	12721.3	8717.8	2952.8	2781.0	2777.1	2745.8	2702.8	2667.7	2655.9	2663.8	2718.5
57.5°	12643.2	8561.6	2878.6	2644.3	2636.4	2593.5	2550.5	2538.8	2534.9	2542.7	2558.3
60°	10264.5	6323.6	2570.0	2488.0	2476.3	2468.5	2425.5	2378.7	2355.2	2378.7	2359.1
62.5°	6792.3	4233.9	2265.4	2300.5	2308.4	2288.8	2218.6	2171.7	2179.5	2206.8	2163.8
65°	3335.6	2488.0	2054.4	2148.2	2156.0	2101.3	2034.9	1980.3	1952.9	1976.4	1956.8
67.5°	1906.1	1902.1	1882.6	1980.3	1976.4	1921.6	1816.2	1769.3	1722.4	1730.3	1718.6
70°	1617.1	1648.3	1687.3	1745.9	1742.0	1679.5	1554.5	1519.3	1452.9	1445.2	1425.6
72.5°	1273.3	1328.0	1413.9	1456.8	1421.7	1343.6	1261.6	1203.0	1144.4	1109.3	1120.9
75°	945.2	1023.3	1070.2	1097.5	1042.9	999.9	933.5	863.2	792.9	761.6	750.0
77.5°	687.4	710.9	753.8	773.4	738.2	695.2	656.2	585.8	519.4	476.5	464.8
80°	480.4	496.0	527.3	527.3	527.3	507.8	457.0	386.6	343.7	304.7	296.8
82.5°	335.9	351.5	382.8	367.1	363.2	339.8	308.6	253.8	207.0	179.7	171.9
85°	117.1	128.9	156.2	187.5	199.2	195.3	175.8	140.6	109.4	89.8	82.1
87.5°	27.3	27.3	31.2	27.3	27.3	31.2	27.3	27.3	27.3	19.5	15.7
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)