

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: P529364

Luminaire Tested: **GALN-SA4C-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529364  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-730-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22111 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

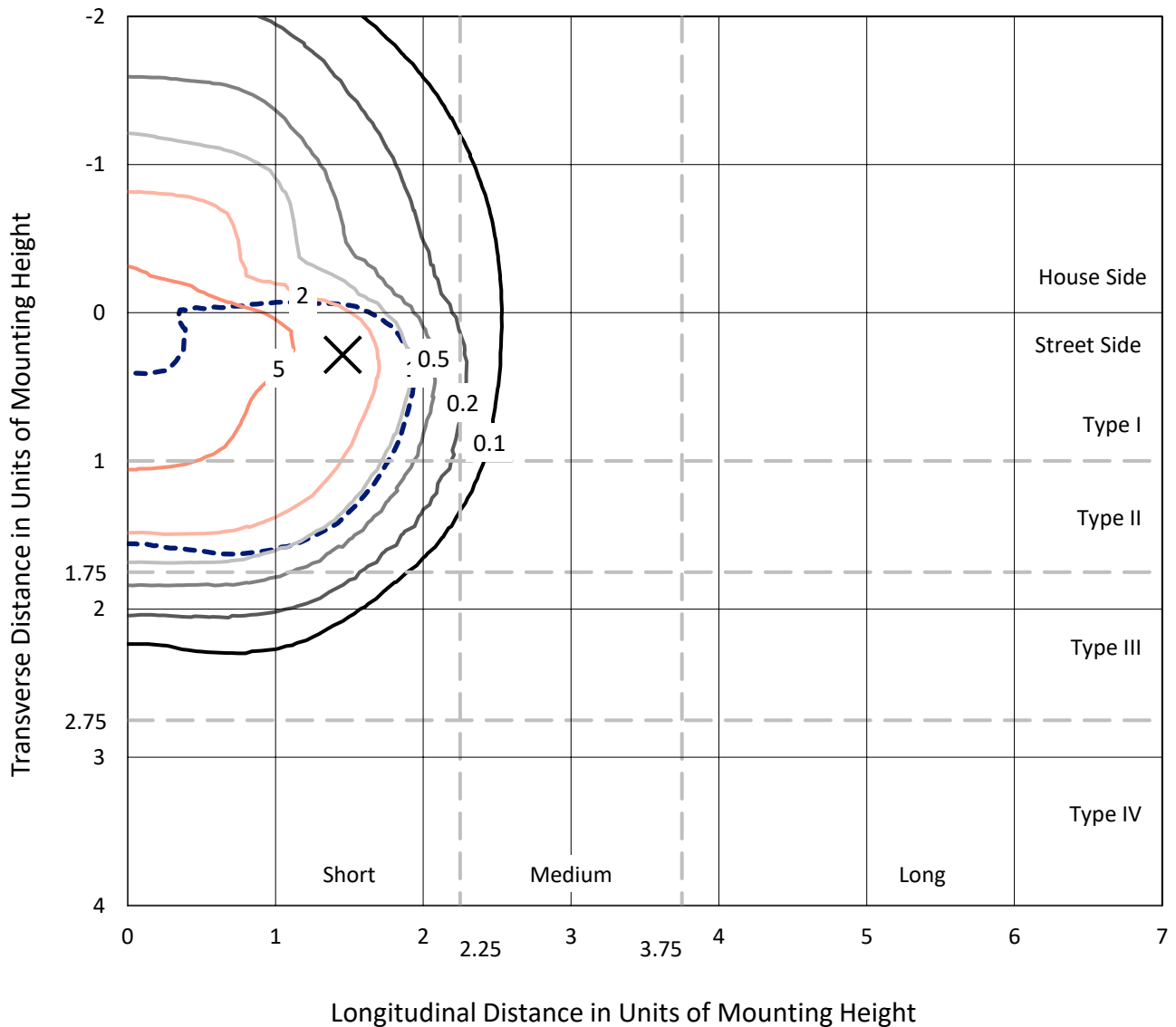
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

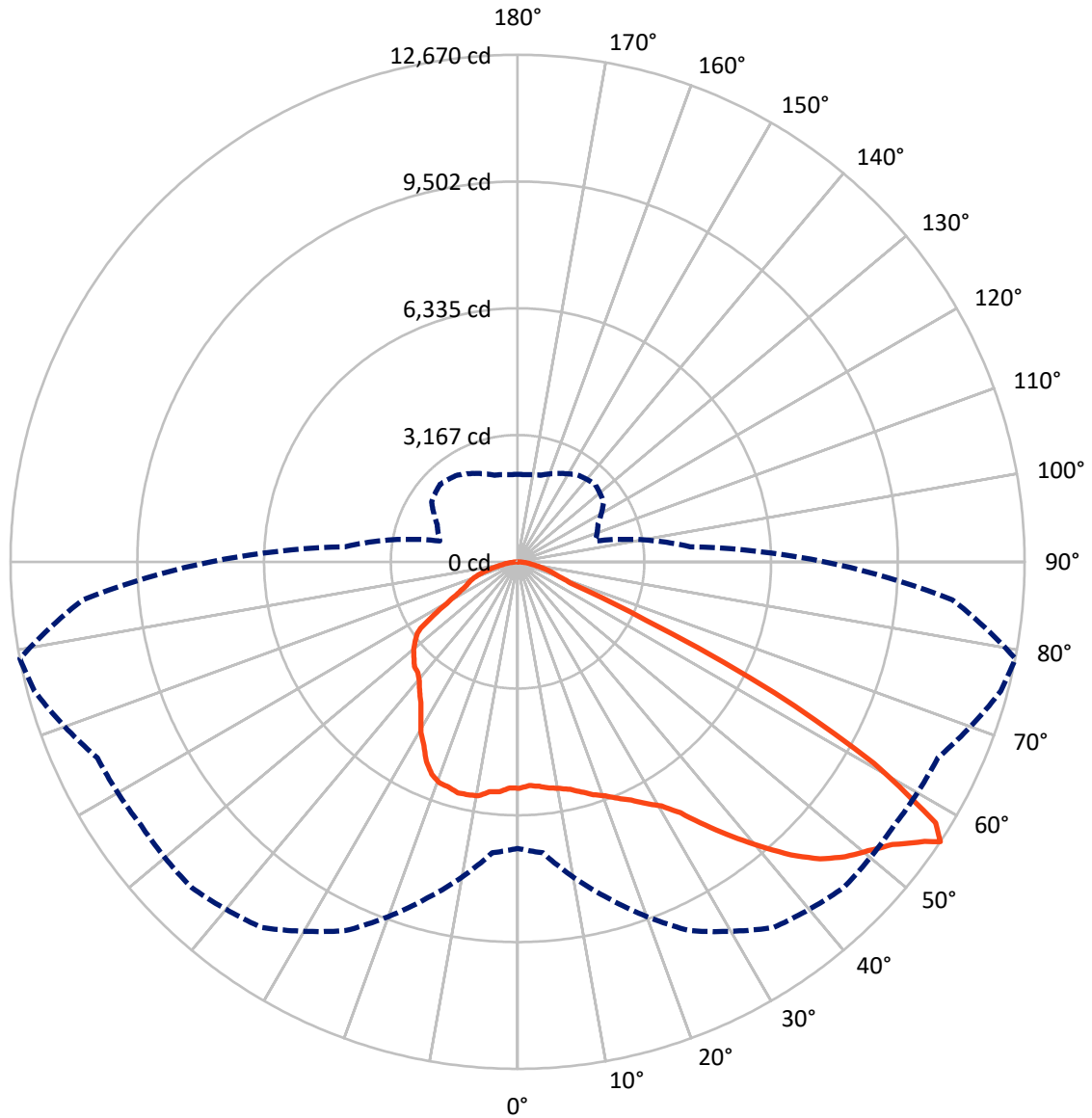
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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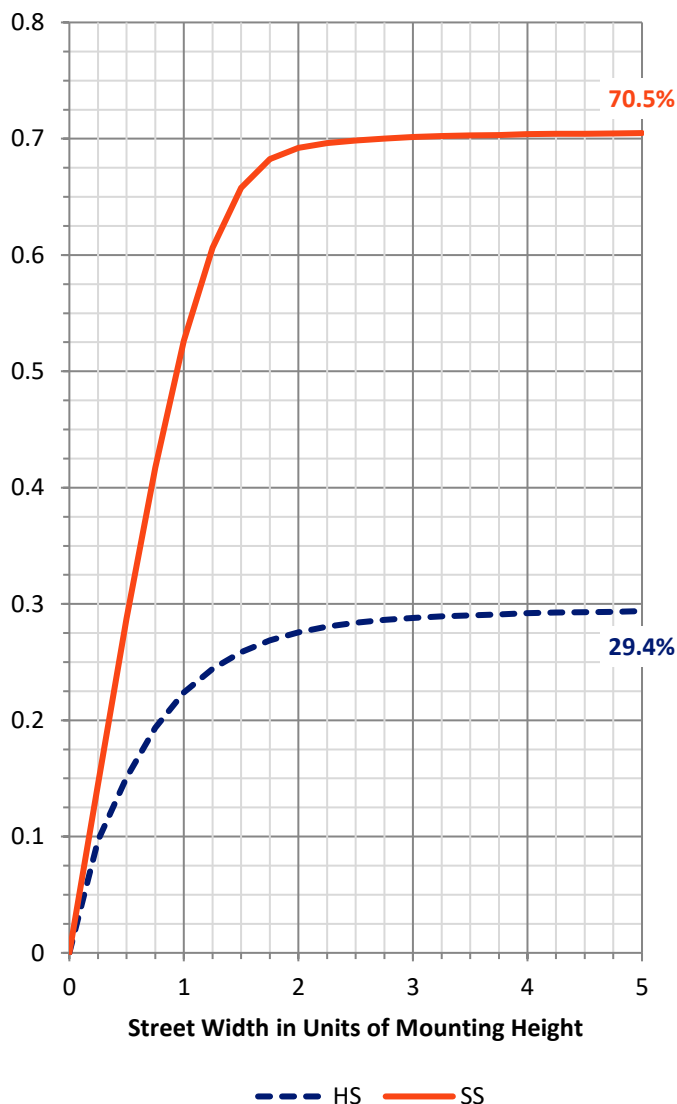
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6529.9	0.0	6529.9
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	15581.1	0.0	15581.1
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	22111.0	0.0	22111.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	514.4	2.3
10°-20°	1407.7	6.4
20°-30°	2408.2	10.9
30°-40°	3690.9	16.7
40°-50°	4988.2	22.6
50°-60°	5729.2	25.9
60°-70°	2611.5	11.8
70°-80°	643.9	2.9
80°-90°	117.0	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°	22111.0	100.0
0°-180°	22111.0	100.0

**Coefficient of Utilization**



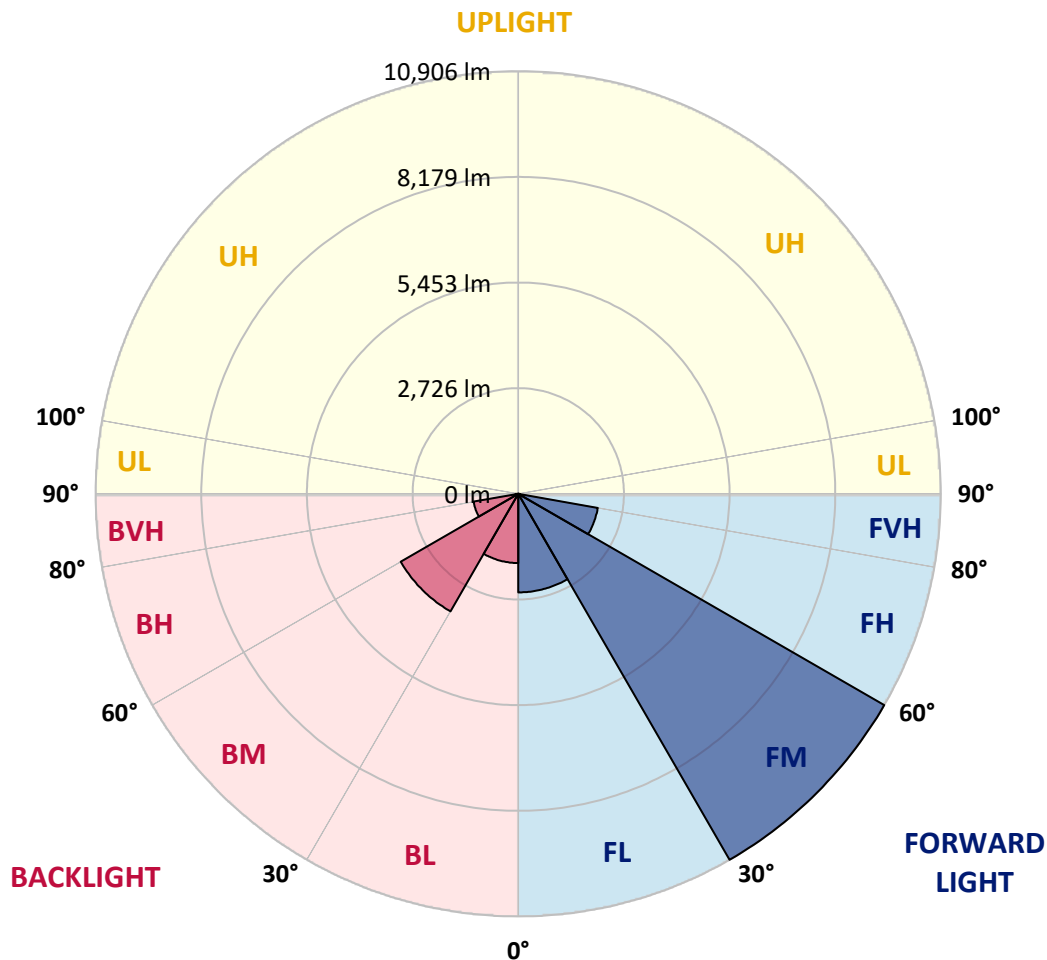
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2544.1	11.5			
FM (30°-60°)	10905.8	49.3			
FH (60°-80°)	2084.6	9.4			G2/5000
FVH (80°-90°)	46.7	0.2			G1/100
BL (0°-30°)	1786.2	8.1	B3/2500		
BM (30°-60°)	3502.5	15.8	B3/5000		
BH (60°-80°)	1170.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	70.3	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°	79°	85°
0°	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3
2.5°	5381.9	5368.1	5401.2	5426.0	5456.3	5494.8	5514.1	5525.1	5621.5	5596.7	5671.1
5°	5266.2	5230.4	5255.2	5274.5	5326.8	5373.6	5426.0	5508.6	5596.7	5635.3	5726.2
7.5°	5164.3	5145.0	5139.5	5153.3	5224.9	5285.5	5376.4	5497.6	5640.8	5704.2	5756.5
10°	4996.3	4968.8	5010.1	5101.0	5120.2	5246.9	5351.6	5525.1	5649.1	5759.2	5913.5
12.5°	4921.9	4894.4	4902.7	4955.0	5089.9	5211.1	5335.1	5530.6	5792.3	5836.4	6042.9
15°	5040.4	5012.8	5021.1	5007.3	5136.8	5200.1	5395.7	5640.8	5891.4	5965.8	6186.2
17.5°	5310.3	5313.0	5277.2	5246.9	5216.6	5351.6	5486.6	5706.9	5930.0	6117.3	6282.6
20°	5825.3	5734.4	5662.8	5492.1	5445.2	5503.1	5673.9	5885.9	6087.0	6241.2	6428.5
22.5°	6222.0	6230.2	6128.3	5847.4	5745.5	5770.3	5916.2	6089.8	6310.1	6420.3	6635.1
25°	6797.6	6739.8	6629.6	6406.5	6177.9	6197.2	6304.6	6461.6	6522.2	6599.3	6833.4
27.5°	7323.7	7340.2	7122.6	6913.3	6629.6	6574.5	6767.3	6794.9	6692.9	6838.9	6918.8
30°	7858.0	7844.2	7701.0	7455.9	7177.7	7188.7	7274.1	7139.1	6998.7	7078.5	7133.6
32.5°	8411.6	8254.6	8249.1	8028.8	7816.7	7714.8	7610.1	7676.2	7458.6	7475.2	7422.8
35°	8855.1	8877.1	8750.4	8593.4	8488.7	8309.7	8023.3	8141.7	8100.4	8081.1	7855.3
37.5°	9177.3	9091.9	9155.3	9103.0	9003.8	8780.7	8483.2	8596.2	8615.4	8709.1	8447.4
40°	9441.7	9405.9	9573.9	9601.5	9532.6	9050.6	8516.3	8852.3	9141.5	9345.3	9034.1
42.5°	9568.4	9645.6	9821.8	10033.9	9879.7	9364.6	8687.1	9047.9	9692.4	10014.6	9590.5
45°	9739.2	9640.0	9901.7	10290.1	10292.8	9629.0	8852.3	9312.3	10122.0	10590.3	9970.6
47.5°	9565.7	9615.3	9885.2	10378.2	10504.9	9907.2	9298.5	9686.9	10595.8	11011.7	10323.1
50°	9177.3	9276.5	9769.5	10281.8	10664.6	10201.9	9810.8	10091.8	11033.7	11350.5	10381.0
52.5°	8772.4	8827.5	9598.7	10356.2	10736.3	10582.0	10496.6	10650.9	11568.1	11733.3	10452.6
55°	7670.7	7932.4	9034.1	10323.1	11086.1	11267.8	11201.7	11427.6	12174.0	12339.3	10843.7
56°	7161.2	7298.9	8695.3	10168.9	11154.9	11518.5	11485.4	11587.3	12496.3	12669.8	10904.3
57.5°	6219.2	6230.2	7414.6	9485.8	10896.0	11592.8	11559.8	11639.7	12432.9	12314.5	10372.7
60°	3891.8	4062.6	5045.9	7296.1	9265.5	10755.5	10942.8	10301.1	10482.9	10232.2	8070.1
62.5°	2016.1	1991.4	2644.1	4266.4	6150.3	7701.0	7874.5	7844.2	7563.3	7197.0	5271.7
65°	1005.3	1010.8	1382.7	2112.5	3150.9	4032.3	4517.0	4569.4	3823.0	3517.2	2500.9
67.5°	729.9	757.4	994.3	1291.8	1484.6	1660.8	2035.4	1996.9	1512.1	1437.7	1333.1
70°	567.4	592.2	807.0	986.0	895.1	895.1	975.0	1008.1	1076.9	1107.2	1143.0
72.5°	413.1	432.4	617.0	680.3	586.7	630.7	729.9	807.0	878.6	889.6	931.0
75°	283.7	300.2	404.9	374.6	352.6	435.2	534.3	605.9	658.3	685.8	710.6
77.5°	184.5	190.0	231.4	195.6	225.9	280.9	347.0	407.6	460.0	482.0	487.5
80°	82.6	90.9	99.2	123.9	157.0	201.1	247.9	297.5	330.5	338.8	355.3
82.5°	46.8	46.8	60.6	88.1	115.7	146.0	179.0	214.8	253.4	261.7	258.9
85°	24.8	24.8	35.8	52.3	71.6	85.4	82.6	85.4	90.9	104.7	101.9
87.5°	8.3	8.3	11.0	11.0	13.8	16.5	13.8	19.3	24.8	24.8	24.8
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°	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3
2.5°	5649.1	5673.9	5640.8	5712.4	5712.4	5698.6	5629.8	5651.8	5668.3	5668.3	5682.1
5°	5756.5	5748.2	5770.3	5684.9	5632.5	5613.3	5500.3	5445.2	5398.4	5395.7	5354.4
7.5°	5817.1	5795.0	5786.8	5723.4	5492.1	5351.6	5109.2	4968.8	4938.5	4831.0	4872.4
10°	5913.5	5954.8	5913.5	5569.2	5246.9	4924.7	4687.8	4470.2	4384.8	4316.0	4274.7
12.5°	6111.8	6092.5	5852.9	5387.4	4935.7	4552.9	4200.3	3971.7	3886.3	3825.7	3820.2
15°	6279.8	6183.4	5817.1	5101.0	4450.9	4043.3	3754.1	3591.6	3553.0	3558.6	3583.3
17.5°	6337.6	6271.5	5629.8	4803.5	4090.1	3610.9	3475.9	3451.1	3486.9	3528.3	3539.3
20°	6428.5	6323.9	5552.7	4398.6	3643.9	3341.0	3332.7	3420.8	3486.9	3547.5	3555.8
22.5°	6618.6	6354.2	5302.0	4015.8	3338.2	3261.1	3341.0	3415.3	3517.2	3566.8	3522.7
25°	6673.7	6288.1	4949.5	3555.8	3145.4	3211.5	3296.9	3398.8	3470.4	3498.0	3517.2
27.5°	6720.5	6186.2	4473.0	3250.1	3084.8	3208.8	3296.9	3382.3	3420.8	3445.6	3467.7
30°	6852.7	6155.9	4059.8	3046.3	3046.3	3153.7	3266.6	3288.6	3341.0	3371.3	3409.8
32.5°	6918.8	5946.5	3635.7	2916.8	3007.7	3181.2	3189.5	3230.8	3233.5	3258.3	3217.0
35°	7092.3	5797.8	3241.8	2823.2	3024.2	3153.7	3195.0	3170.2	3035.2	2969.1	2982.9
37.5°	7219.0	5723.4	2958.1	2812.1	3027.0	3184.0	3206.0	3018.7	2878.2	2768.1	2795.6
40°	7560.5	5538.9	2743.3	2792.9	3051.8	3217.0	3156.4	2952.6	2699.2	2586.3	2567.0
42.5°	7822.2	5406.7	2608.3	2770.8	3071.0	3263.8	3131.6	2820.4	2561.5	2456.8	2484.4
45°	8125.2	5376.4	2536.7	2776.3	3104.1	3288.6	3101.3	2718.5	2443.1	2401.7	2393.5
47.5°	8232.6	5158.8	2459.6	2729.5	3095.8	3280.4	2999.4	2641.4	2399.0	2404.5	2426.5
50°	8053.6	4935.7	2401.7	2633.1	3040.7	3206.0	2839.7	2539.5	2374.2	2443.1	2481.6
52.5°	7825.0	4707.1	2283.3	2503.7	2927.8	3090.3	2765.3	2534.0	2349.4	2327.4	2335.6
55°	7893.8	4519.8	2118.1	2327.4	2746.0	2875.5	2682.7	2481.6	2288.8	2206.2	2233.7
56°	7670.7	4327.0	2010.6	2217.2	2622.1	2737.8	2641.4	2434.8	2239.2	2184.2	2184.2
57.5°	7040.0	3679.7	1870.2	2040.9	2360.4	2498.1	2561.5	2407.3	2184.2	2087.8	2090.5
60°	5191.9	2616.6	1677.4	1798.6	1955.6	2065.7	2360.4	2330.1	2046.4	1980.3	1955.6
62.5°	3200.5	1911.5	1539.7	1586.5	1666.4	1757.2	2060.2	2109.8	1900.5	1828.9	1812.3
65°	1793.0	1462.5	1435.0	1454.3	1492.8	1539.7	1710.4	1820.6	1677.4	1567.2	1561.7
67.5°	1311.0	1308.3	1330.3	1346.9	1363.4	1363.4	1404.7	1448.8	1429.5	1341.3	1333.1
70°	1165.1	1173.3	1189.9	1192.6	1198.1	1178.8	1145.8	1132.0	1154.1	1099.0	1087.9
72.5°	961.3	988.8	1008.1	1010.8	980.5	955.7	911.7	864.8	848.3	837.3	834.6
75°	738.2	757.4	765.7	762.9	751.9	716.1	663.8	617.0	586.7	553.6	570.1
77.5°	498.5	526.1	539.8	539.8	523.3	468.2	443.4	407.6	377.3	341.5	347.0
80°	349.8	369.1	391.1	388.4	360.8	333.3	297.5	264.4	239.6	212.1	209.3
82.5°	261.7	272.7	283.7	278.2	258.9	231.4	206.6	176.3	148.7	129.5	129.5
85°	93.6	101.9	123.9	129.5	140.5	140.5	118.4	99.2	79.9	66.1	66.1
87.5°	27.5	27.5	30.3	30.3	27.5	30.3	24.8	27.5	30.3	19.3	19.3
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)