

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: P529358

Luminaire Tested: **GALN-SA4C-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529358  
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-SA4C-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1050mA 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: 21245 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

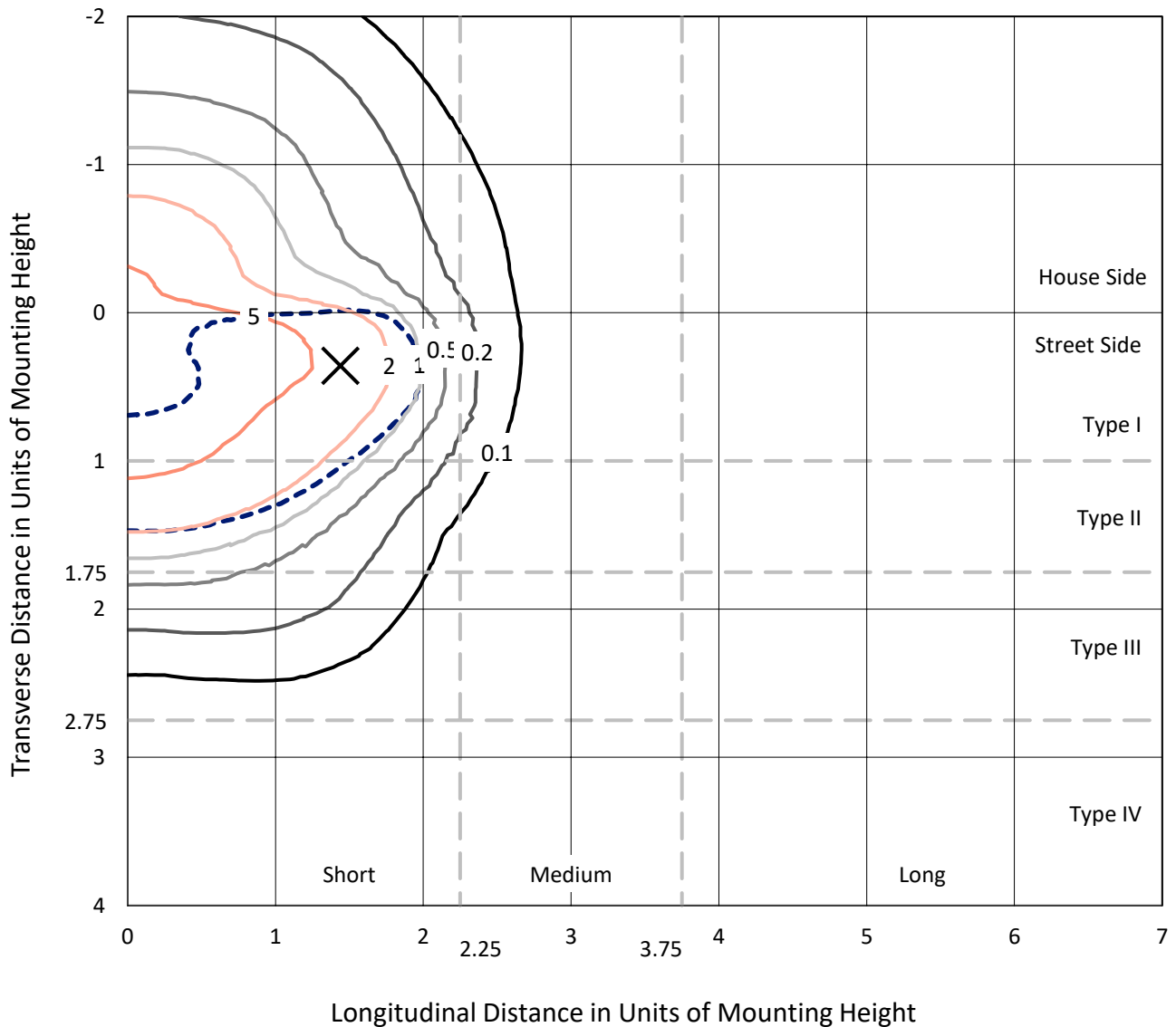
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

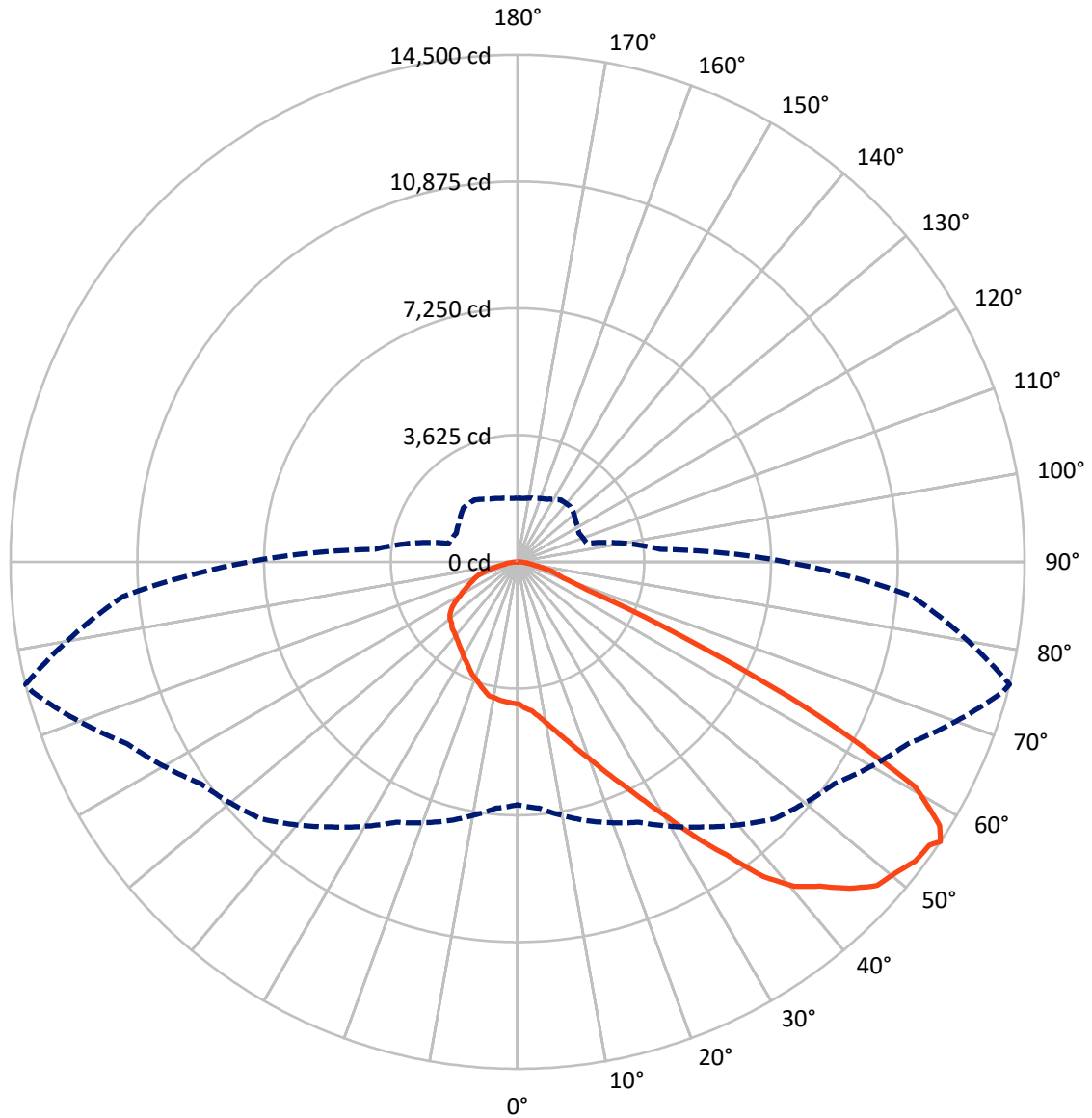
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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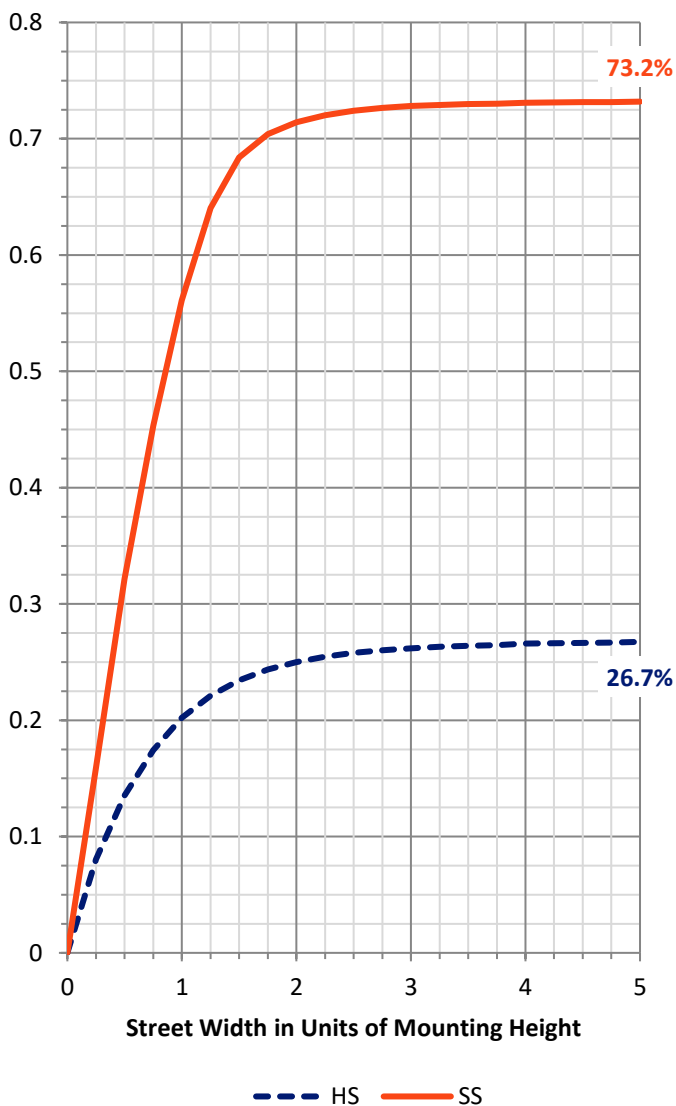
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5712.1	0.0	5712.1
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	15532.8	0.0	15532.8
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	21245.0	0.0	21245.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.1	1.9
10°-20°	1266.3	6.0
20°-30°	2214.7	10.4
30°-40°	3467.5	16.3
40°-50°	5044.2	23.7
50°-60°	5543.9	26.1
60°-70°	2474.6	11.6
70°-80°	714.8	3.4
80°-90°	115.9	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°	21245.0	100.0
0°-180°	21245.0	100.0

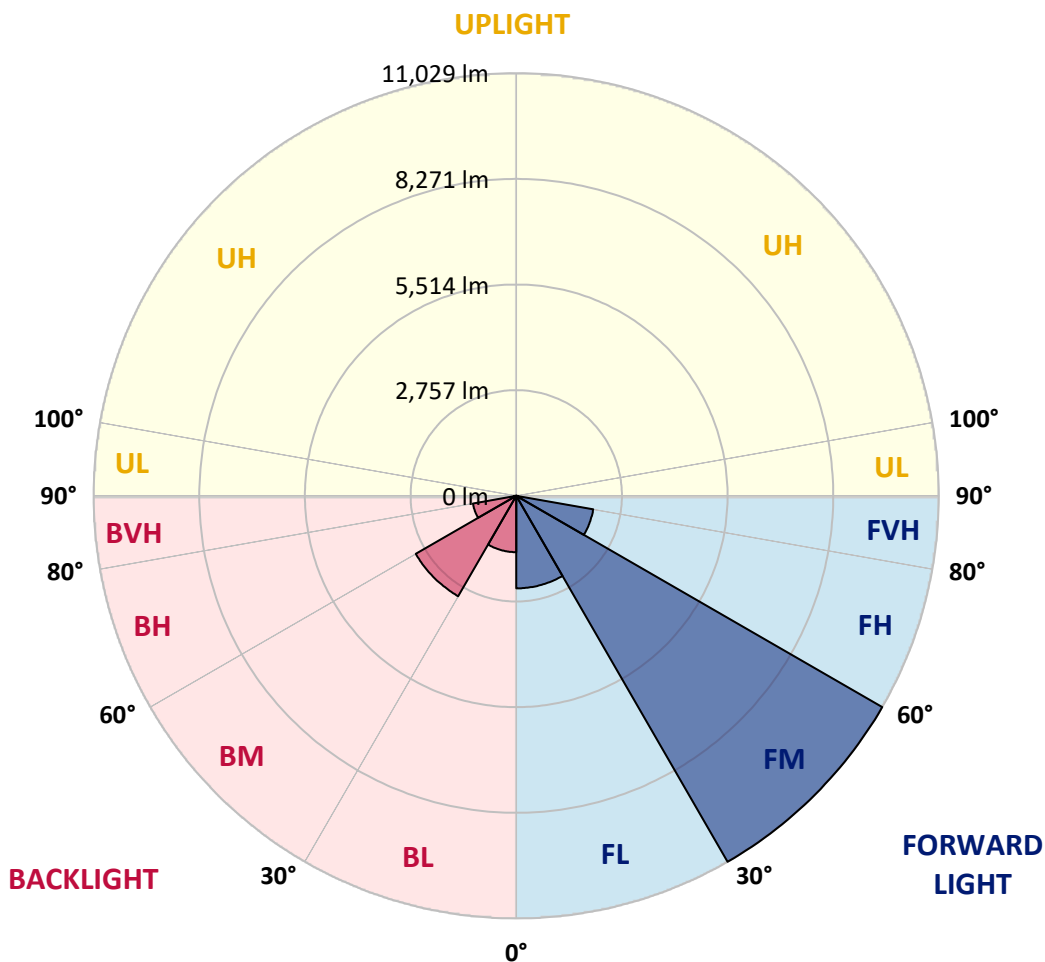


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2414.3	11.4			
FM (30°-60°)	11028.7	51.9			
FH (60°-80°)	2040.0	9.6			G2/5000
FVH (80°-90°)	49.9	0.2			G1/100
BL (0°-30°)	1469.8	6.9	B3/2500		
BM (30°-60°)	3027.0	14.2	B3/5000		
BH (60°-80°)	1149.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	66.0	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°	4065.0	4065.0	4065.0	4065.0	4065.0	4065.0	4065.0	4065.0	4065.0	4065.0	4065.0
2.5°	4478.1	4406.5	4401.0	4381.7	4392.7	4343.1	4290.8	4221.9	4150.3	4194.4	4089.7
5°	4792.0	4695.6	4734.2	4668.1	4676.4	4610.3	4502.8	4423.0	4334.9	4282.5	4208.2
7.5°	4902.2	4910.4	4938.0	4927.0	4871.9	4871.9	4800.3	4659.8	4505.6	4475.3	4351.4
10°	5050.9	5053.7	5023.4	5031.6	5108.7	5072.9	5009.6	4949.0	4750.7	4714.9	4494.6
12.5°	5103.2	5053.7	5103.2	5147.3	5238.2	5287.8	5274.0	5229.9	5017.9	4993.1	4670.8
15°	5111.5	5081.2	5122.5	5221.7	5301.5	5510.8	5615.5	5585.2	5304.3	5307.0	4869.1
17.5°	5072.9	5114.2	5130.8	5216.1	5400.7	5596.2	5899.1	5940.5	5709.1	5673.3	5119.8
20°	5125.3	5095.0	5117.0	5194.1	5439.2	5744.9	6141.5	6414.2	6089.2	6064.4	5378.6
22.5°	5326.3	5285.0	5279.5	5329.1	5505.3	5822.0	6397.6	6887.8	6551.9	6565.6	5700.9
25°	5483.3	5505.3	5486.0	5483.3	5593.4	5937.7	6736.4	7452.4	7179.8	7099.9	6080.9
27.5°	5753.2	5805.5	5767.0	5819.3	5794.5	6111.2	6978.7	8077.6	7857.3	7749.9	6425.2
30°	6127.7	6155.3	6119.5	6119.5	6045.1	6353.6	7199.1	8730.3	8639.4	8493.4	6830.0
32.5°	6620.7	6662.0	6590.4	6549.1	6538.1	6714.3	7595.6	9374.7	9529.0	9405.0	7367.0
35°	7273.4	7248.6	7163.2	7124.7	6976.0	7267.9	8185.0	10115.6	10520.4	10300.1	8017.0
37.5°	7849.0	7810.4	7804.9	7590.1	7625.9	7865.5	8686.2	10677.4	11481.6	11418.2	8702.8
40°	8386.0	8421.8	8479.7	8358.5	8303.4	8567.8	9270.1	11107.0	12227.9	12203.1	9231.5
42.5°	8961.6	8928.6	9030.5	8928.6	8846.0	9220.5	9903.5	11404.5	12883.4	12679.6	9785.1
45°	9796.1	9691.5	9727.3	9735.5	9674.9	9812.6	10165.1	11619.3	13343.3	13321.3	10189.9
47.5°	10492.9	10495.6	10435.0	10388.2	10203.7	10341.4	10457.1	11754.2	13872.1	13836.3	10346.9
50°	10751.8	10716.0	10892.2	10994.1	11005.1	10724.2	10685.7	11828.6	14150.2	13993.3	10503.9
52.5°	9820.9	9853.9	10132.1	10738.0	11087.8	11118.0	10952.8	11982.8	14263.2	14230.1	10630.6
55°	7904.1	8063.8	8521.0	9220.5	10049.5	10961.1	11242.0	12142.5	14323.7	14296.2	11192.4
56°	6948.4	7072.4	7667.2	8215.3	9256.3	10391.0	11060.2	12313.3	14370.6	14500.0	11324.6
57.5°	5593.4	5736.7	6163.5	6785.9	8014.2	9305.9	10559.0	12104.0	14188.8	14238.4	11421.0
60°	3497.6	3511.4	4023.6	4434.0	5298.8	6560.1	8058.3	10531.4	13131.2	13059.6	10258.8
62.5°	2294.1	2296.9	2762.3	3098.3	3492.1	3781.3	4742.5	6984.2	9688.7	9562.0	7303.7
65°	1611.1	1646.9	2007.7	2456.6	2616.3	2464.9	2434.6	3682.1	5411.7	5229.9	3924.5
67.5°	1178.7	1181.5	1500.9	1982.9	2214.2	1875.5	1523.0	1798.4	2142.6	2137.1	1817.7
70°	779.4	812.4	1057.6	1481.7	1746.1	1506.5	1244.8	1286.1	1363.2	1363.2	1352.2
72.5°	454.4	484.7	647.2	939.1	980.4	941.9	985.9	1101.6	1151.2	1148.4	1134.7
75°	258.9	272.6	308.5	391.1	487.5	575.6	724.3	834.5	884.0	914.3	878.5
77.5°	151.5	159.7	181.8	223.1	253.4	311.2	393.8	470.9	537.0	528.8	534.3
80°	79.9	79.9	101.9	132.2	176.3	220.3	261.6	305.7	341.5	349.8	358.0
82.5°	46.8	49.6	66.1	96.4	126.7	157.0	201.0	231.3	264.4	267.1	272.6
85°	24.8	27.5	41.3	63.3	85.4	96.4	99.1	93.6	101.9	96.4	110.2
87.5°	8.3	8.3	13.8	11.0	11.0	13.8	16.5	16.5	22.0	22.0	22.0
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°	4065.0	4065.0	4065.0	4065.0	4065.0	4065.0	4065.0	4065.0	4065.0	4065.0	4065.0
2.5°	4087.0	4087.0	4040.2	3952.0	3938.3	3902.5	3869.4	3866.7	3841.9	3819.8	3808.8
5°	4164.1	4078.7	4009.9	3930.0	3836.4	3792.3	3742.7	3687.7	3665.6	3687.7	3684.9
7.5°	4252.2	4180.6	3974.1	3825.4	3717.9	3673.9	3618.8	3561.0	3566.5	3566.5	3527.9
10°	4337.6	4241.2	3910.7	3720.7	3563.7	3530.7	3500.4	3522.4	3550.0	3555.5	3530.7
12.5°	4480.8	4263.2	3880.4	3616.1	3516.9	3445.3	3464.6	3525.2	3583.0	3566.5	3585.8
15°	4588.2	4282.5	3742.7	3508.6	3384.7	3417.8	3486.6	3527.9	3624.3	3613.3	3632.6
17.5°	4692.9	4293.5	3607.8	3365.4	3313.1	3404.0	3456.3	3574.7	3605.0	3671.1	3695.9
20°	4907.7	4315.6	3470.1	3277.3	3260.8	3365.4	3456.3	3511.4	3577.5	3635.3	3635.3
22.5°	5017.9	4304.6	3379.2	3161.6	3214.0	3280.1	3362.7	3456.3	3456.3	3511.4	3514.2
25°	5155.6	4260.5	3236.0	3106.6	3145.1	3208.5	3302.1	3269.0	3304.8	3304.8	3348.9
27.5°	5312.5	4166.9	3112.1	3007.4	3084.5	3153.4	3167.1	3145.1	3103.8	3098.3	3081.8
30°	5439.2	4051.2	3021.2	2974.4	3037.7	3076.3	3032.2	2985.4	2913.8	2908.3	2869.7
32.5°	5612.7	3908.0	2908.3	2891.7	2963.3	2966.1	2952.3	2880.7	2776.1	2732.0	2687.9
35°	5904.7	3825.4	2822.9	2847.7	2869.7	2861.4	2836.7	2759.5	2654.9	2635.6	2619.1
37.5°	6119.5	3764.8	2734.8	2765.1	2784.3	2795.3	2721.0	2635.6	2638.4	2599.8	2588.8
40°	6361.8	3726.2	2663.2	2676.9	2679.7	2715.5	2624.6	2583.3	2602.6	2577.8	2594.3
42.5°	6673.0	3737.2	2588.8	2577.8	2630.1	2616.3	2572.3	2517.2	2528.2	2453.8	2464.9
45°	6838.3	3811.6	2544.7	2495.2	2553.0	2550.2	2492.4	2440.1	2374.0	2230.8	2236.3
47.5°	6948.4	3830.9	2440.1	2407.0	2467.6	2503.4	2437.3	2316.1	2222.5	2120.6	2095.8
50°	7061.3	3866.7	2390.5	2321.7	2346.4	2431.8	2349.2	2233.5	2142.6	2051.8	2065.5
52.5°	7160.5	3935.5	2294.1	2192.2	2236.3	2329.9	2285.9	2145.4	2046.2	1971.9	1949.9
55°	7601.1	4089.7	2131.6	1999.4	2104.1	2222.5	2197.7	2027.0	1919.6	1881.0	1875.5
56°	7670.0	4095.3	2046.2	1933.3	2029.7	2186.7	2156.4	1974.6	1878.3	1817.7	1820.4
57.5°	7681.0	4029.2	1925.1	1872.7	1955.4	2134.4	2095.8	1933.3	1801.1	1746.1	1729.5
60°	6758.4	3145.1	1773.6	1740.6	1836.9	1974.6	1960.9	1820.4	1671.7	1608.4	1638.7
62.5°	4607.5	2305.1	1655.2	1649.7	1699.2	1834.2	1798.4	1671.7	1547.8	1506.5	1487.2
65°	2682.4	1748.8	1539.5	1517.5	1558.8	1630.4	1655.2	1523.0	1393.5	1366.0	1357.7
67.5°	1583.6	1445.9	1390.8	1355.0	1341.2	1385.3	1404.6	1327.4	1198.0	1159.4	1192.5
70°	1324.7	1286.1	1288.9	1228.3	1195.3	1165.0	1148.4	1079.6	972.2	922.6	908.8
72.5°	1142.9	1126.4	1115.4	1060.3	1030.0	961.2	889.6	820.7	740.8	699.5	702.3
75°	873.0	867.5	873.0	845.5	793.2	738.1	672.0	583.9	523.3	470.9	482.0
77.5°	520.5	537.0	545.3	534.3	512.3	462.7	421.4	363.5	305.7	264.4	258.9
80°	358.0	371.8	385.6	371.8	349.8	314.0	269.9	225.8	184.5	162.5	157.0
82.5°	272.6	286.4	294.7	280.9	253.4	214.8	184.5	154.2	121.2	99.1	93.6
85°	99.1	112.9	110.2	132.2	143.2	137.7	118.4	90.9	68.9	49.6	46.8
87.5°	27.5	24.8	27.5	27.5	27.5	24.8	22.0	22.0	22.0	13.8	11.0
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)