

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: P456916

Luminaire Tested: **GALN-SA8B-722-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-722-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24435 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

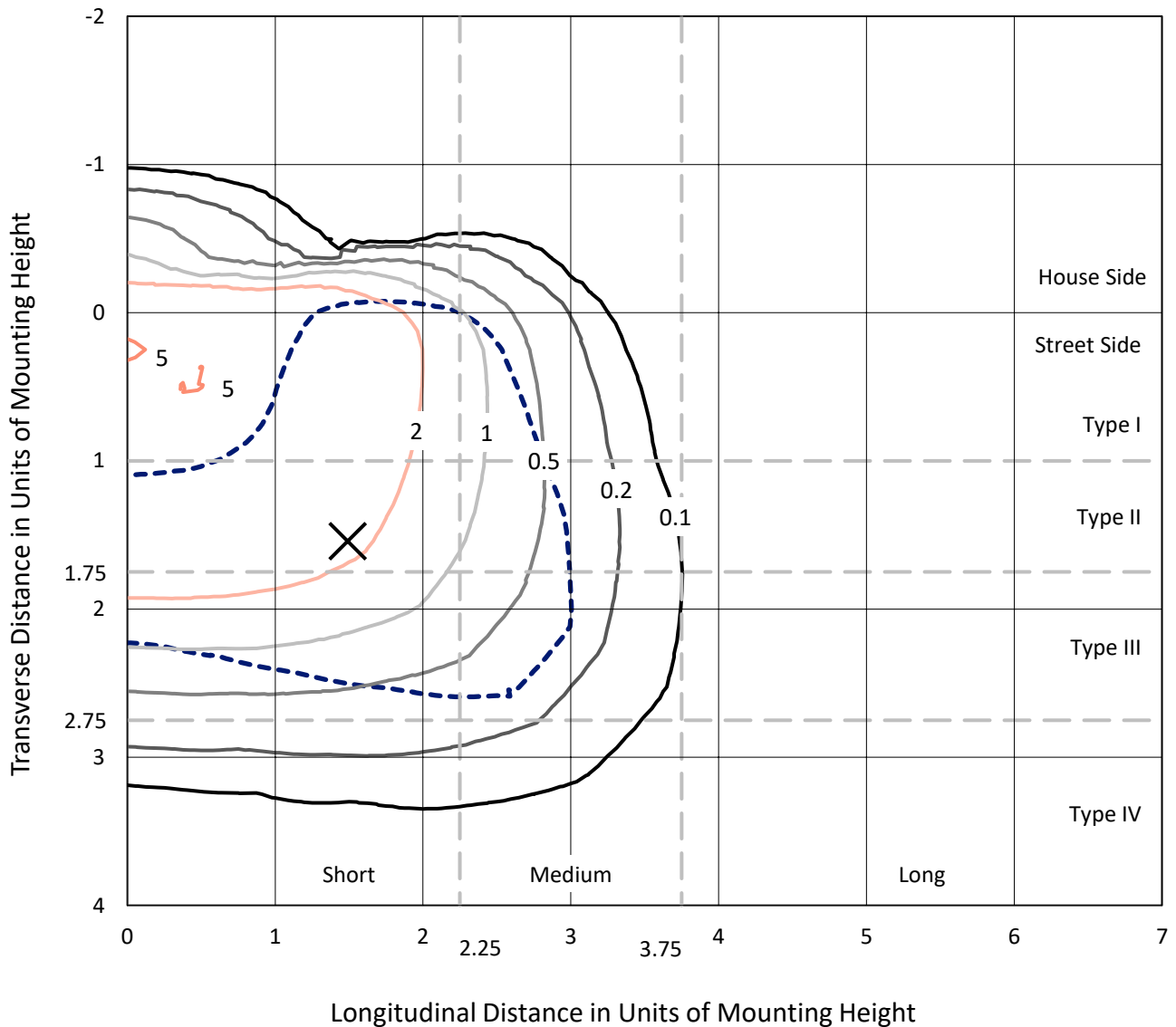
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

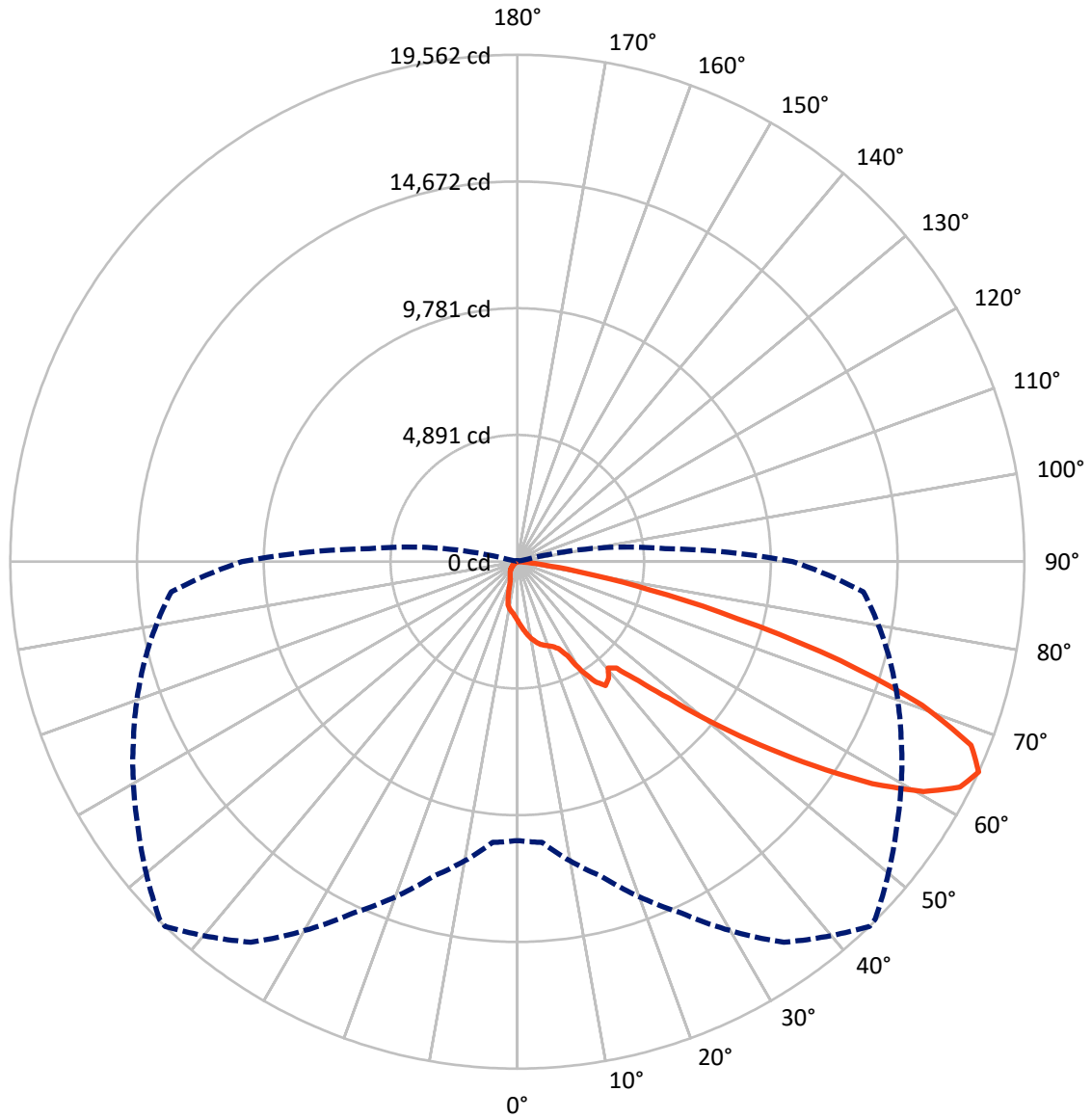
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



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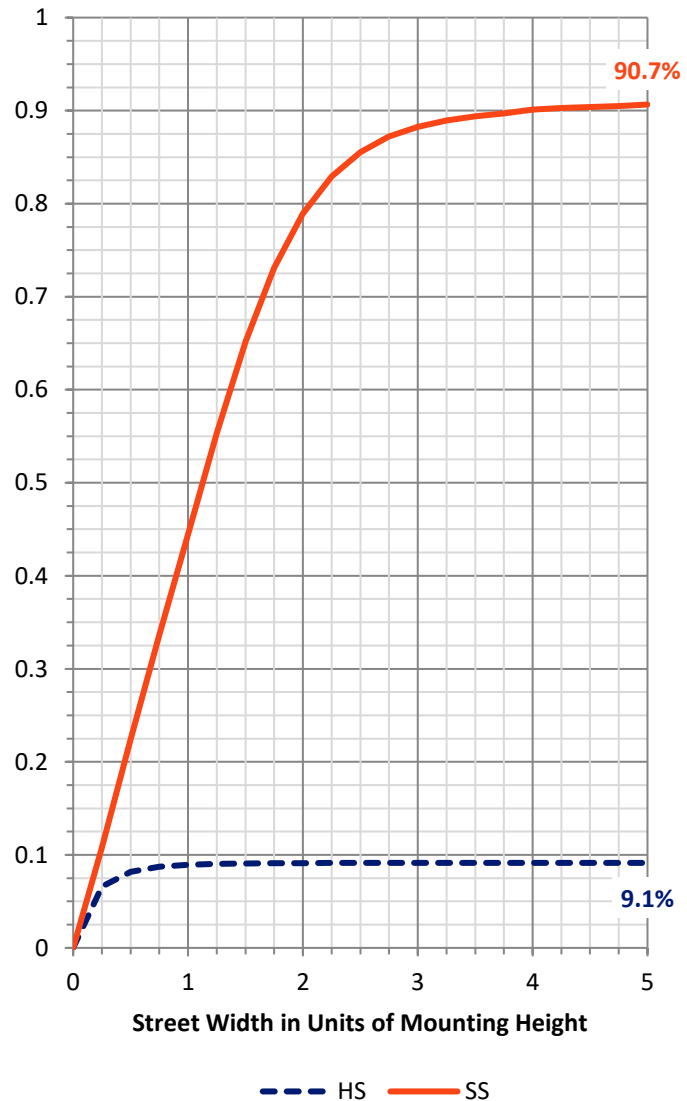
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2251.3	0.0	2251.3
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	22183.7	0.0	22183.7
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	24435.0	0.0	24435.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.2	0.9
10°-20°	680.8	2.8
20°-30°	1154.3	4.7
30°-40°	1919.3	7.9
40°-50°	3351.1	13.7
50°-60°	6546.8	26.8
60°-70°	7595.8	31.1
70°-80°	2766.0	11.3
80°-90°	194.9	0.8
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°	24435.0	100.0
0°-180°	24435.0	100.0

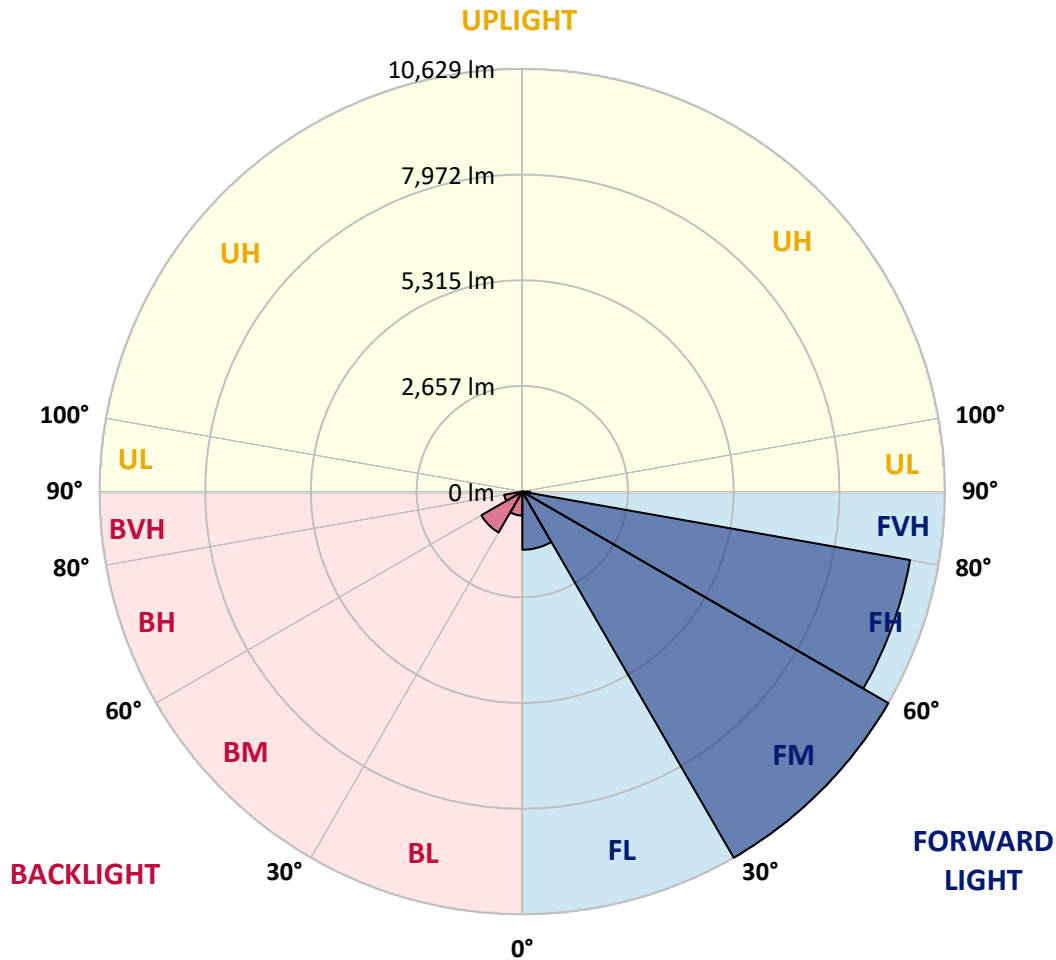


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1461.4	6.0			
FM (30°-60°)	10629.3	43.5			
FH (60°-80°)	9900.7	40.5			G4/12000
FVH (80°-90°)	192.2	0.8			G2/225
BL (0°-30°)	599.8	2.5	B2/1000		
BM (30°-60°)	1187.8	4.9	B2/2500		
BH (60°-80°)	461.0	1.9	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2
2.5°	2559.8	2548.6	2543.0	2513.2	2490.8	2462.8	2462.8	2427.3	2386.2	2341.4	2300.3
5°	2845.5	2826.8	2802.6	2776.4	2724.1	2649.5	2649.5	2574.8	2488.9	2412.3	2328.3
7.5°	3120.0	3103.2	3062.1	3011.7	2925.8	2847.4	2841.8	2733.5	2630.8	2515.0	2395.5
10°	3360.8	3347.8	3312.3	3215.2	3125.6	3022.9	3021.0	2899.7	2780.2	2638.3	2490.8
12.5°	3528.9	3530.8	3484.1	3390.7	3275.0	3177.9	3170.4	3050.9	2925.8	2772.7	2591.6
15°	3648.4	3648.4	3599.8	3495.3	3390.7	3304.8	3297.4	3192.8	3064.0	2897.8	2701.7
17.5°	3682.0	3693.2	3640.9	3547.6	3463.5	3388.8	3387.0	3299.2	3196.5	3036.0	2813.8
20°	3668.9	3680.1	3639.0	3566.2	3508.3	3465.4	3459.8	3424.3	3329.1	3177.9	2933.3
22.5°	3640.9	3652.1	3622.2	3579.3	3551.3	3564.4	3555.0	3584.9	3534.5	3351.5	3075.2
25°	3646.5	3657.7	3635.3	3611.0	3635.3	3715.6	3739.9	3868.7	3823.9	3571.8	3228.3
27.5°	3822.0	3844.4	3812.7	3823.9	3909.8	4096.5	4143.2	4365.4	4167.4	3851.9	3467.3
30°	4212.3	4197.3	4137.6	4191.7	4490.5	4886.3	4873.2	4837.7	4527.8	4174.9	3751.1
32.5°	4567.0	4553.9	4550.2	4783.6	5325.1	5517.4	5508.0	5164.5	4850.8	4544.6	4031.1
35°	4710.8	4660.4	4649.2	5214.9	6120.5	5866.5	5808.7	5298.9	5242.9	4947.9	4316.8
37.5°	5144.0	5108.5	4934.8	5285.9	5803.1	5719.0	5674.2	5530.5	5661.2	5304.5	4639.8
40°	6036.4	5937.5	5780.6	5437.1	5353.1	5388.6	5433.4	5827.3	6155.9	5791.9	5071.1
42.5°	7145.5	7123.1	6831.8	6191.4	5562.2	5610.7	5668.6	6447.2	6867.3	6525.6	5775.0
45°	8476.8	8508.5	8088.4	7332.2	6507.0	6548.0	6632.1	7362.1	7830.8	7666.5	6882.3
47.5°	9686.7	9662.4	9520.5	8734.5	7972.7	7881.2	8017.5	8536.5	9163.9	9190.0	8256.5
50°	10904.1	11032.9	10821.9	10513.8	9948.1	9755.8	9705.4	9959.3	10915.3	10790.2	9907.0
52.5°	12653.6	12720.8	12325.0	12246.5	12375.4	11751.7	11701.3	11762.9	12618.1	12188.7	11143.1
55°	13753.3	13714.1	13566.6	14179.0	14688.7	13910.2	13846.7	13598.3	14031.5	13176.4	12332.4
57.5°	14100.6	14156.6	14500.2	15607.4	16813.5	16152.6	16036.8	15331.0	15051.0	14096.9	13426.6
60°	13945.6	14048.3	14789.6	16436.4	18109.3	18010.4	17911.4	16725.8	15782.9	14866.1	14194.0
62.5°	12842.2	12985.9	14171.6	16288.9	18548.1	19166.1	19042.9	17595.9	16270.2	15239.6	14328.4
65°	10762.2	10868.6	12571.4	14950.1	17924.5	19562.0	19517.2	17868.5	16346.8	14897.9	13407.9
67.5°	7672.1	8034.3	9612.0	12599.4	16079.8	18886.1	18962.6	17541.7	15627.9	13421.0	11103.8
70°	4822.8	5069.3	6200.8	9020.1	12890.7	16569.0	16821.0	16046.2	13562.9	10461.6	7433.1
72.5°	2300.3	2483.3	3289.9	5709.7	9098.5	13036.3	13236.1	13172.6	10487.7	6591.0	3835.1
75°	1025.1	1094.1	1570.3	2914.6	5874.0	8762.5	9279.7	9365.5	6553.6	3224.5	1491.8
77.5°	522.8	524.7	735.7	1411.6	2933.3	5228.0	5330.7	5631.3	3553.2	1420.9	519.1
80°	278.2	296.9	390.2	666.6	1521.7	2574.8	2561.7	2815.6	1575.9	696.4	173.6
82.5°	125.1	138.2	220.3	349.2	743.1	976.5	1053.1	1152.0	675.9	444.4	76.6
85°	37.3	44.8	108.3	175.5	268.9	281.9	315.5	407.0	382.8	315.5	39.2
87.5°	5.6	5.6	44.8	48.5	39.2	50.4	52.3	57.9	123.2	115.8	20.5
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°	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2	2274.2
2.5°	2277.9	2264.8	2218.2	2178.9	2145.3	2124.8	2100.5	2085.6	2078.1	2072.5	2074.4
5°	2287.2	2255.5	2175.2	2111.7	2063.2	2010.9	1975.4	1954.9	1945.6	1930.6	1930.6
7.5°	2339.5	2289.1	2177.1	2080.0	1996.0	1925.0	1857.8	1833.5	1816.7	1813.0	1809.3
10°	2414.2	2350.7	2197.6	2063.2	1943.7	1846.6	1751.4	1667.4	1602.0	1562.8	1557.2
12.5°	2507.6	2416.1	2229.4	2052.0	1898.9	1727.1	1475.0	1305.1	1191.2	1155.8	1161.4
15°	2593.4	2494.5	2261.1	2042.6	1816.7	1432.1	1146.4	952.2	894.4	888.8	890.6
17.5°	2696.1	2578.5	2298.4	2029.6	1590.8	1094.1	851.4	799.1	810.3	829.0	827.1
20°	2802.6	2668.1	2343.3	1951.2	1269.7	823.4	752.5	758.1	774.9	791.7	795.4
22.5°	2916.5	2770.8	2395.5	1762.6	969.0	717.0	713.2	720.7	737.5	756.2	759.9
25°	3073.3	2899.7	2434.7	1516.1	733.8	662.8	670.3	683.4	698.3	718.8	722.6
27.5°	3275.0	3073.3	2455.3	1195.0	634.8	614.3	616.2	634.8	653.5	672.2	672.2
30°	3536.4	3280.6	2414.2	903.7	586.3	567.6	560.1	571.3	595.6	614.3	616.2
32.5°	3769.7	3476.6	2305.9	690.8	550.8	524.7	506.0	507.9	517.2	528.4	530.3
35°	4003.1	3667.1	2121.1	580.7	513.5	483.6	455.6	440.6	433.2	427.6	433.2
37.5°	4301.9	3904.2	1874.6	528.4	481.7	444.4	405.2	373.4	347.3	330.5	334.2
40°	4686.5	4232.8	1583.3	494.8	451.8	407.0	354.8	313.7	268.9	253.9	246.5
42.5°	5321.3	4731.3	1277.1	466.8	422.0	367.8	302.5	246.5	205.4	190.4	194.2
45°	6324.0	5360.5	984.0	436.9	392.1	324.9	253.9	194.2	160.6	153.1	156.8
47.5°	7653.4	6174.6	758.1	403.3	354.8	278.2	199.8	153.1	132.6	130.7	128.8
50°	8904.4	6932.7	633.0	366.0	309.9	231.5	164.3	128.8	115.8	113.9	113.9
52.5°	10035.8	7476.0	515.3	323.0	261.4	190.4	138.2	113.9	102.7	97.1	97.1
55°	11042.2	7830.8	418.2	270.7	205.4	151.2	119.5	102.7	89.6	82.2	80.3
57.5°	11802.2	7873.7	313.7	216.6	153.1	117.6	102.7	89.6	74.7	65.3	61.6
60°	12127.0	7502.1	231.5	164.3	113.9	93.4	82.2	72.8	56.0	46.7	44.8
62.5°	11800.3	6779.6	171.8	125.1	87.8	69.1	57.9	54.1	39.2	28.0	26.1
65°	10629.6	5735.8	136.3	95.2	65.3	50.4	37.3	35.5	24.3	13.1	11.2
67.5°	8516.0	4492.3	108.3	71.0	46.7	33.6	24.3	22.4	13.1	3.7	3.7
70°	5537.9	2871.7	87.8	52.3	29.9	22.4	14.9	11.2	7.5	1.9	0.0
72.5°	2739.1	1342.5	71.0	41.1	20.5	11.2	5.6	3.7	5.6	0.0	0.0
75°	1062.4	478.0	52.3	28.0	11.2	5.6	3.7	0.0	1.9	0.0	0.0
77.5°	352.9	158.7	31.7	14.9	7.5	3.7	0.0	0.0	0.0	0.0	0.0
80°	130.7	61.6	16.8	9.3	3.7	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	52.3	24.3	11.2	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.1	14.9	7.5	5.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.7	11.2	7.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0	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)