

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: P646837

Luminaire Tested: **GALN-SA3C-835-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-835-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13517.7 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 160  
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

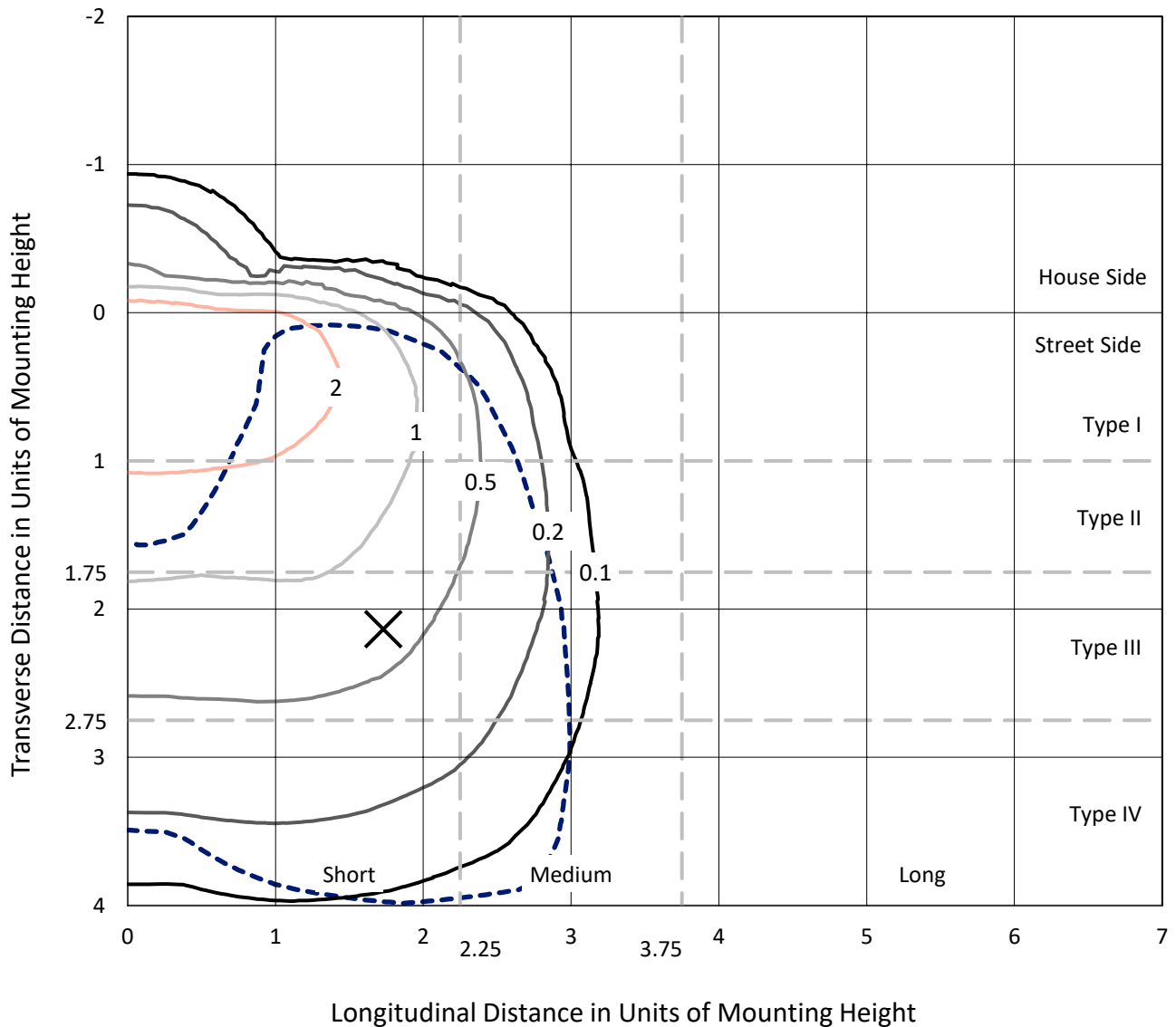




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### Iso-Footcandle Lines of Horizontal Illumination

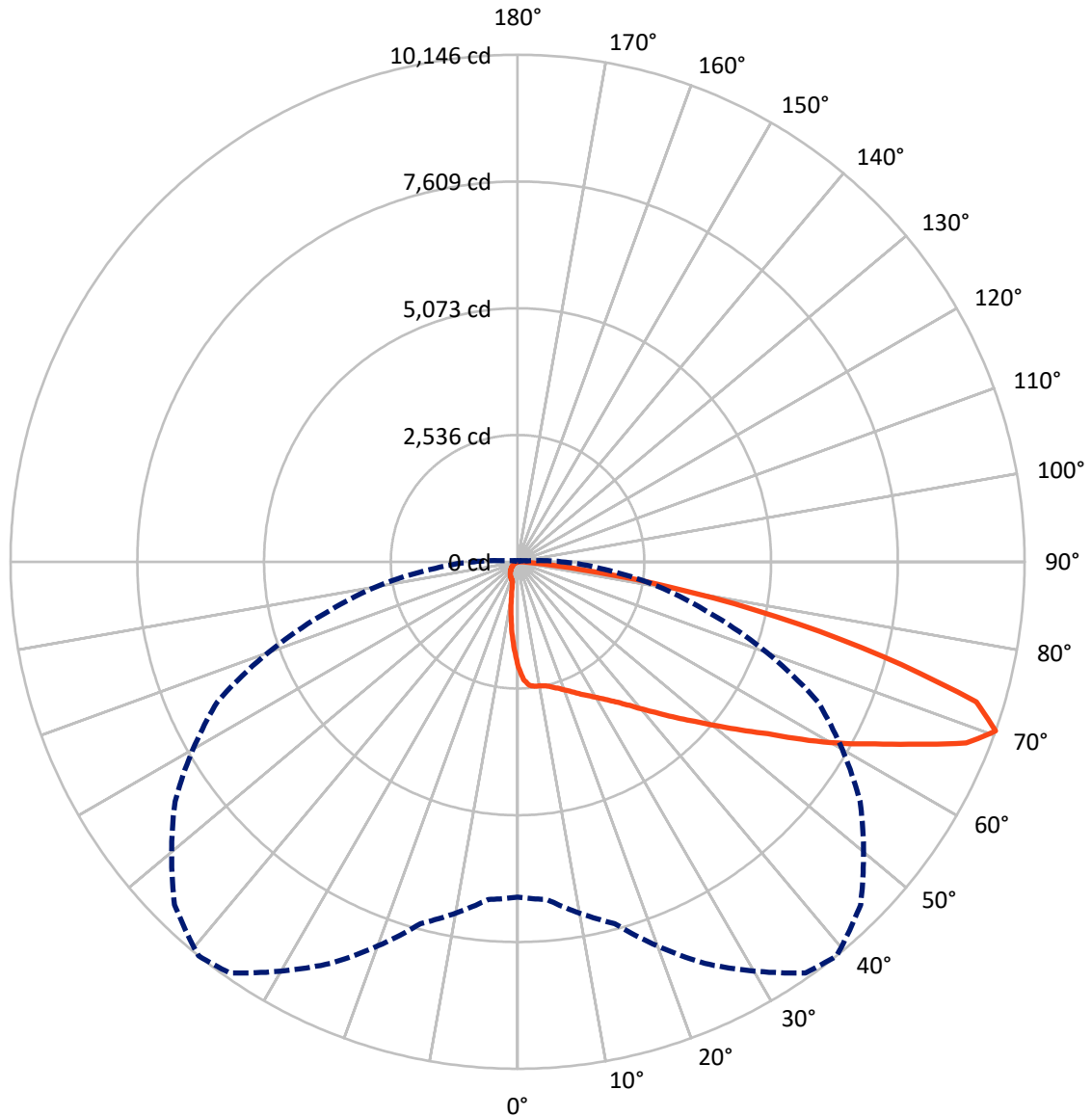
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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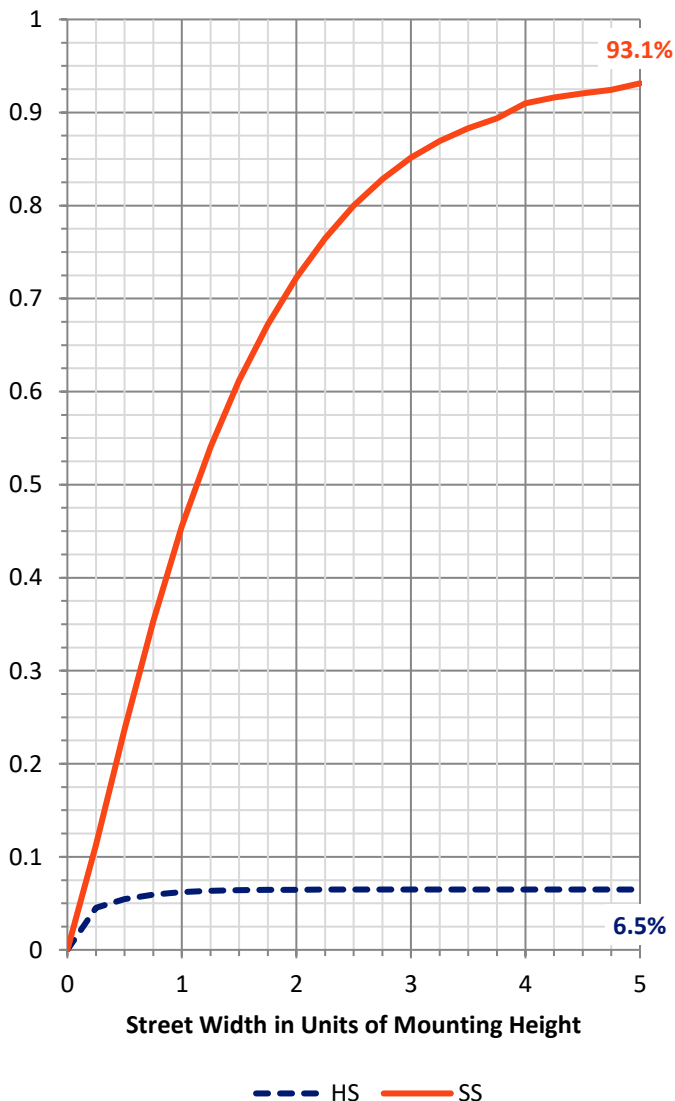
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	881.4	0.0	881.4
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	12636.3	0.0	12636.3
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	13517.7	0.0	13517.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.9	1.3
10°-20°	467.5	3.5
20°-30°	783.2	5.8
30°-40°	1214.7	9.0
40°-50°	1924.9	14.2
50°-60°	2821.6	20.9
60°-70°	3616.6	26.8
70°-80°	2272.6	16.8
80°-90°	236.7	1.8
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°	13517.7	100.0
0°-180°	13517.7	100.0

**Coefficient of Utilization**



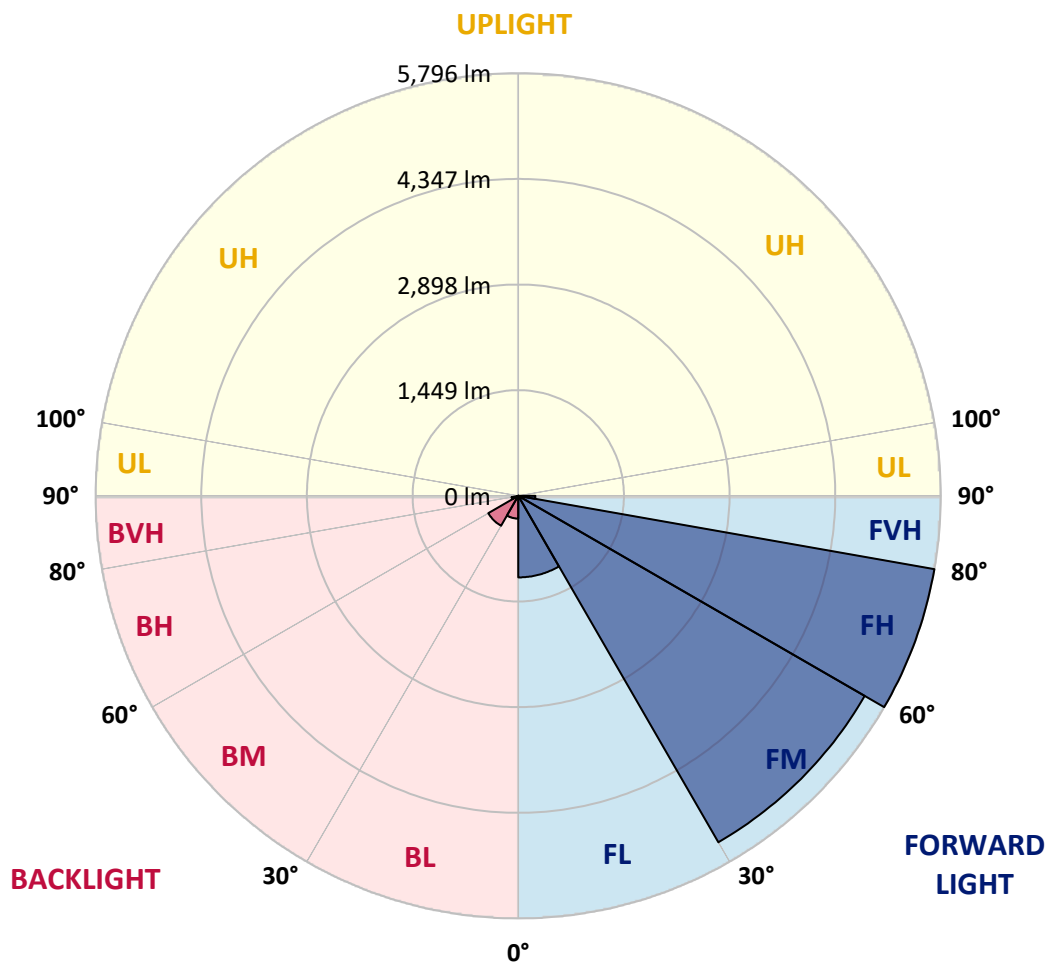
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.5	8.3			
FM (30°-60°)	5486.8	40.6			
FH (60°-80°)	5796.0	42.9			G3/7500
FVH (80°-90°)	235.0	1.7			G3/500
BL (0°-30°)	312.1	2.3	B1/500		
BM (30°-60°)	474.4	3.5	B1/1000		
BH (60°-80°)	93.2	0.7	B0/110		G0/110
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2
2.5°	2437.2	2428.9	2418.1	2405.4	2369.0	2362.6	2340.9	2294.5	2239.1	2193.7	2131.0
5°	2552.5	2557.0	2548.9	2526.2	2499.8	2484.4	2457.1	2385.3	2313.6	2221.8	2119.2
7.5°	2578.9	2588.0	2577.9	2556.2	2530.7	2514.4	2492.5	2430.8	2347.2	2242.7	2102.0
10°	2576.1	2587.0	2580.7	2560.7	2539.8	2524.3	2500.7	2451.7	2384.5	2274.5	2107.4
12.5°	2571.6	2586.1	2585.2	2575.2	2558.0	2546.2	2531.6	2488.0	2425.3	2320.9	2137.4
15°	2558.8	2577.0	2593.4	2601.6	2602.5	2602.5	2584.3	2537.9	2478.0	2381.7	2176.4
17.5°	2564.3	2585.2	2626.1	2649.7	2666.0	2664.2	2645.1	2595.2	2528.9	2444.4	2217.3
20°	2597.9	2626.1	2683.3	2730.6	2746.9	2741.4	2716.0	2657.9	2582.5	2498.0	2257.3
22.5°	2680.6	2706.0	2777.8	2833.2	2845.0	2830.5	2794.1	2715.1	2647.0	2556.2	2305.5
25°	2804.2	2834.1	2900.4	2942.2	2942.2	2934.1	2883.2	2790.5	2719.7	2637.0	2368.1
27.5°	2954.0	2979.5	3044.9	3082.1	3060.3	3036.6	2985.8	2874.1	2806.0	2738.7	2443.5
30°	3105.7	3122.1	3191.1	3207.4	3184.7	3154.8	3100.3	2988.6	2928.6	2876.8	2552.5
32.5°	3249.2	3284.7	3341.8	3338.2	3307.4	3292.8	3242.9	3123.9	3090.3	3084.8	2705.1
35°	3392.7	3420.0	3470.9	3483.6	3456.3	3453.6	3417.2	3329.2	3330.1	3365.5	2943.1
37.5°	3516.3	3540.8	3600.8	3628.9	3634.4	3648.0	3633.4	3575.3	3658.0	3755.2	3258.3
40°	3619.8	3654.3	3730.7	3779.7	3836.0	3886.0	3888.7	3901.5	4067.7	4234.8	3669.8
42.5°	3700.7	3748.8	3859.6	3950.5	4079.5	4143.1	4193.9	4263.9	4543.7	4793.4	4154.8
45°	3806.1	3861.4	3999.6	4142.1	4343.8	4448.3	4519.1	4706.2	5103.2	5443.8	4652.7
47.5°	3980.5	4009.5	4150.3	4358.3	4623.6	4772.5	4910.7	5194.0	5703.6	6008.8	5066.9
50°	4204.9	4223.9	4330.1	4619.1	4962.4	5158.6	5410.2	5743.6	6326.8	6477.5	5301.2
52.5°	4452.8	4459.2	4539.1	4906.1	5342.1	5589.2	5870.8	6282.2	6834.6	6811.9	5456.6
55°	4740.8	4731.7	4799.8	5217.7	5791.8	6074.3	6402.2	6833.6	7275.1	7049.0	5545.6
57.5°	5070.5	5046.0	5112.3	5630.9	6367.7	6705.5	7038.9	7309.6	7616.6	7247.8	5588.3
60°	5415.7	5366.6	5445.7	6095.1	7046.2	7366.9	7643.9	7716.5	7976.3	7405.9	5514.7
62.5°	5690.9	5691.9	5839.0	6589.3	7743.8	8024.5	8171.7	8237.1	8286.1	7371.4	5127.7
65°	6120.6	6135.1	6370.4	7275.1	8551.4	8794.8	8895.7	8683.1	8299.7	6942.6	4546.4
67.5°	6563.9	6610.2	7040.7	8219.8	9484.2	9680.5	9550.6	8769.4	7929.1	5964.3	3447.2
70°	6708.3	6784.6	7494.0	8870.2	10043.8	10145.6	9705.9	8367.0	6628.3	3987.7	1735.0
72.5°	6146.9	6270.4	7233.4	8633.1	9686.8	9598.7	8684.0	7017.2	4213.9	1514.2	529.5
75°	4334.7	4389.3	6011.6	7161.6	7791.1	7541.2	6605.6	4523.6	1733.2	425.1	181.7
77.5°	2238.2	2211.9	3575.3	4751.6	5556.5	5297.6	4325.6	2341.8	656.8	177.1	112.7
80°	1157.3	1176.3	1547.0	2489.9	3391.9	3121.1	2306.3	1085.5	349.7	98.1	86.3
82.5°	648.6	608.6	889.3	1087.4	1586.0	1243.6	884.7	768.5	152.6	59.0	81.7
85°	118.1	123.6	487.8	587.7	550.4	349.7	285.2	513.3	44.5	32.7	57.2
87.5°	1.8	1.8	94.5	169.0	107.2	49.0	90.0	73.6	9.1	12.7	10.0
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°	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2	2109.2
2.5°	2099.2	2064.7	2000.3	1936.7	1855.8	1789.5	1745.0	1698.6	1651.4	1655.0	1665.9
5°	2062.9	2002.9	1875.8	1741.3	1612.4	1496.1	1381.6	1279.0	1237.2	1199.0	1200.9
7.5°	2026.6	1942.1	1755.9	1545.1	1349.8	1151.8	1008.3	890.2	827.6	780.3	766.6
10°	2010.2	1898.5	1645.9	1356.2	1079.1	862.9	678.5	582.2	507.8	484.1	490.5
12.5°	2017.5	1876.7	1547.0	1185.4	855.7	601.3	472.4	423.3	406.9	404.2	402.4
15°	2031.1	1861.3	1449.7	996.4	628.6	446.9	397.0	387.9	386.0	384.2	385.2
17.5°	2049.3	1847.6	1346.2	819.3	482.3	390.6	376.1	371.5	370.6	370.6	370.6
20°	2067.4	1832.1	1230.8	661.3	402.4	368.8	359.7	357.0	356.1	356.1	355.2
22.5°	2088.3	1818.5	1113.7	519.6	370.6	353.4	345.1	343.3	342.5	341.5	341.5
25°	2118.3	1801.3	989.2	425.1	350.6	338.8	330.7	328.9	327.9	324.3	325.2
27.5°	2158.3	1788.6	861.1	367.0	332.5	320.6	315.2	312.5	310.7	308.0	308.8
30°	2212.8	1777.6	724.9	335.2	311.6	301.6	296.1	294.3	292.5	289.8	289.8
32.5°	2307.3	1782.2	581.4	309.8	292.5	280.7	275.2	273.4	271.6	268.9	268.9
35°	2449.0	1808.6	465.1	288.0	269.8	258.0	252.5	252.5	249.8	246.2	245.2
37.5°	2680.6	1875.8	373.3	267.1	248.0	237.1	230.8	228.9	226.2	220.7	219.8
40°	2954.0	1980.2	314.3	246.2	228.0	217.1	211.6	206.2	199.0	193.5	192.5
42.5°	3297.4	2087.4	272.5	225.3	208.9	199.0	192.5	183.5	172.6	165.3	164.4
45°	3655.3	2185.5	244.4	206.2	190.7	182.6	175.3	160.7	147.1	138.0	137.2
47.5°	3922.4	2203.7	221.7	188.0	175.3	167.2	157.1	139.0	120.8	112.7	109.9
50°	4048.6	2115.6	198.0	169.8	159.9	150.8	138.0	117.2	97.2	87.2	85.4
52.5°	4093.1	1963.0	178.9	153.5	144.5	133.5	118.1	94.5	76.3	66.3	65.4
55°	4075.0	1770.4	161.7	138.0	126.3	113.5	98.1	75.4	56.3	48.2	46.4
57.5°	3979.5	1525.1	144.5	122.6	108.1	95.4	78.1	56.3	38.1	30.9	30.0
60°	3722.5	1190.9	127.2	105.4	91.8	78.1	61.8	39.9	23.6	17.2	17.2
62.5°	3288.3	883.9	110.8	88.1	77.2	62.6	43.6	25.4	12.7	9.1	8.1
65°	2747.8	652.2	92.6	74.5	64.5	49.0	30.9	15.4	6.3	2.7	1.8
67.5°	1917.6	402.4	77.2	60.8	52.7	35.4	19.1	6.3	2.7	0.0	0.0
70°	871.1	191.7	59.0	46.4	39.9	25.4	10.0	3.6	1.8	0.0	0.0
72.5°	270.7	100.9	41.8	33.6	27.2	16.4	5.5	2.7	1.8	0.0	0.0
75°	125.4	64.5	26.3	18.2	15.4	8.1	3.6	1.8	0.9	0.0	0.0
77.5°	93.6	50.0	15.4	10.0	8.1	5.5	2.7	1.8	0.9	0.0	0.0
80°	81.7	25.4	9.1	6.3	4.5	3.6	1.8	0.9	0.0	0.0	0.0
82.5°	73.6	12.7	5.5	3.6	2.7	1.8	0.9	0.9	0.0	0.0	0.0
85°	39.9	7.3	3.6	2.7	1.8	0.9	0.9	0.0	0.0	0.0	0.0
87.5°	7.3	3.6	2.7	1.8	1.8	0.9	0.9	0.9	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)