

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: P646849

Luminaire Tested: **GALN-SA3C-835-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646849  
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-SA3C-835-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 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: 13783.9 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

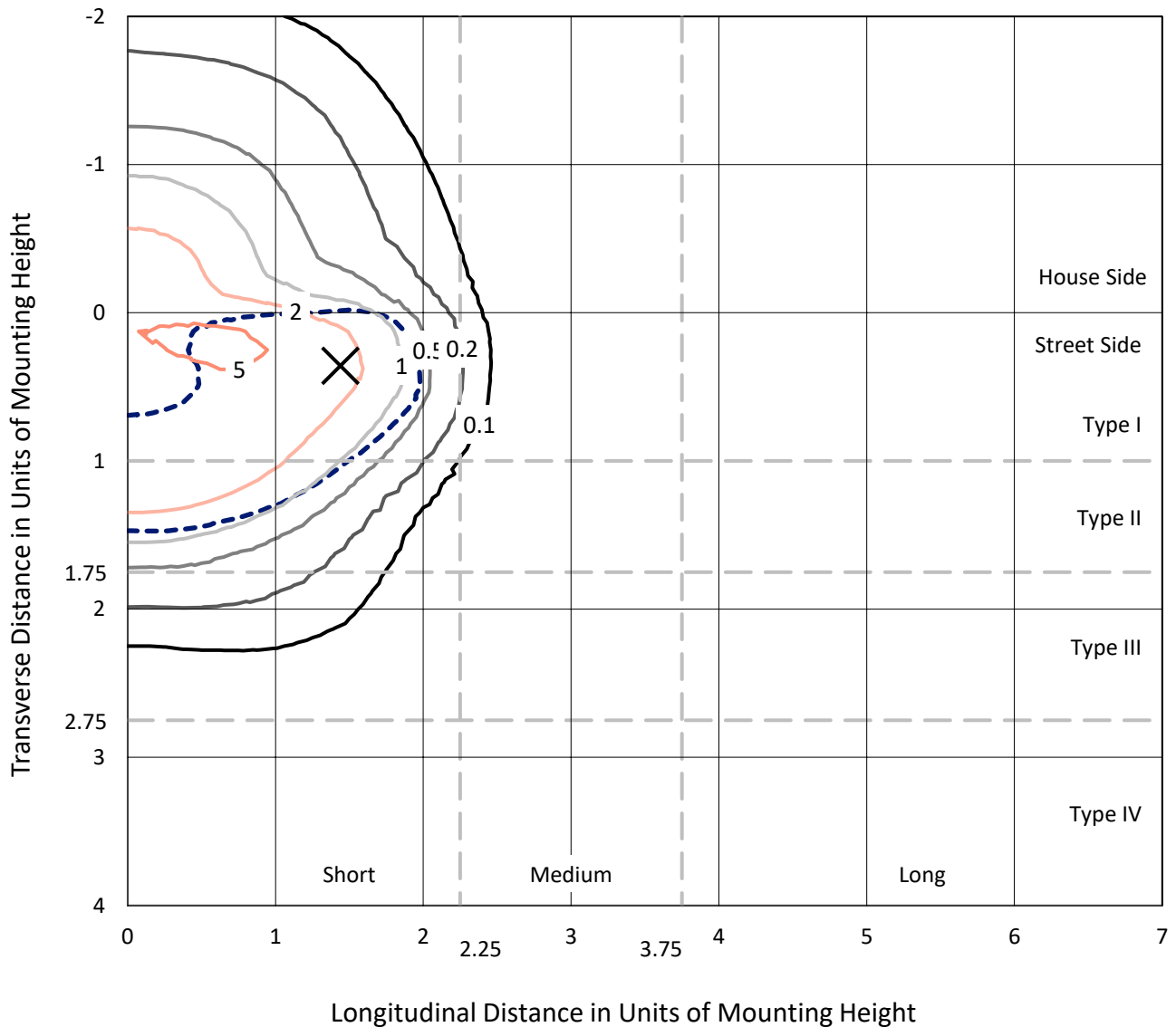
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

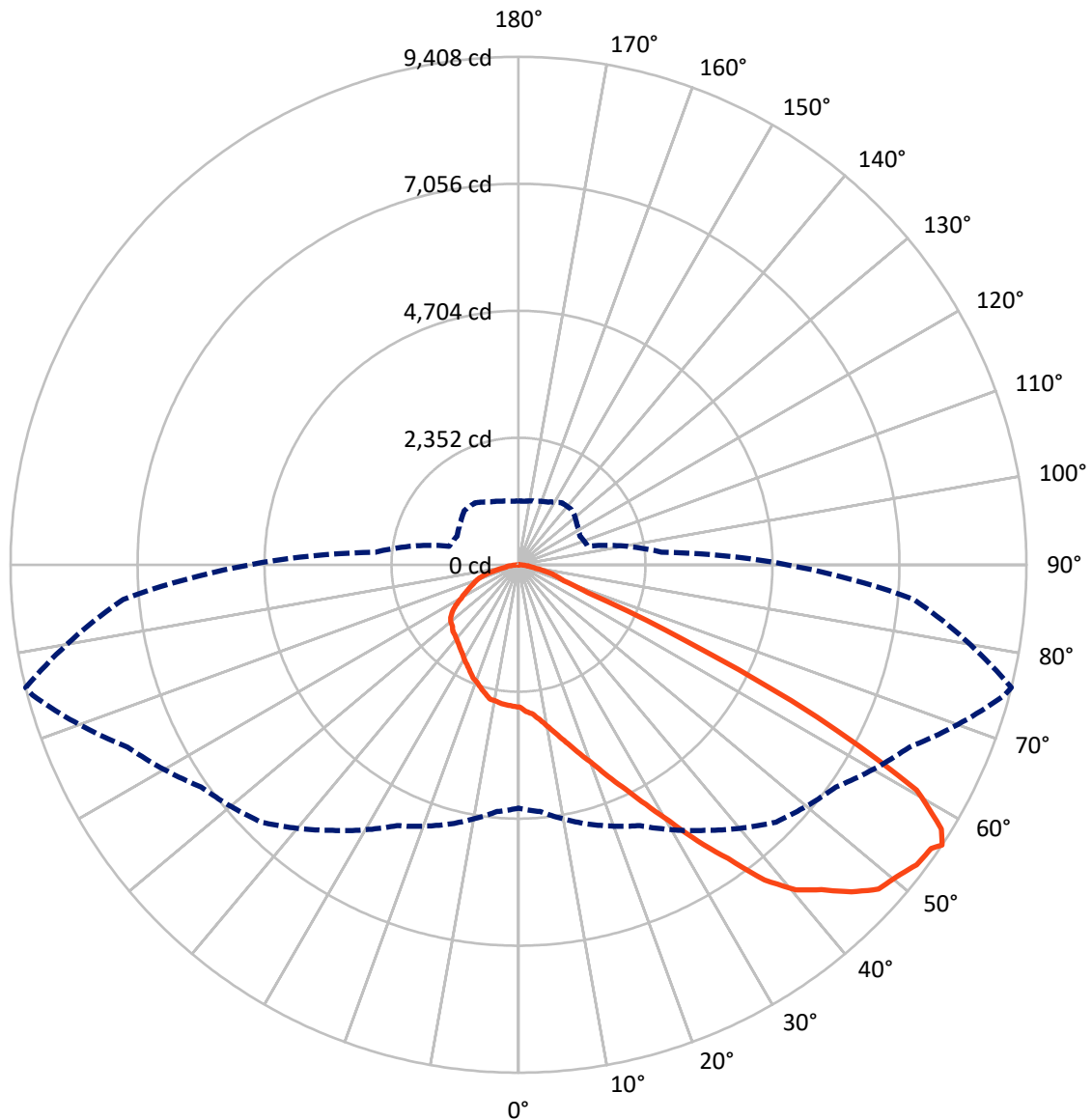
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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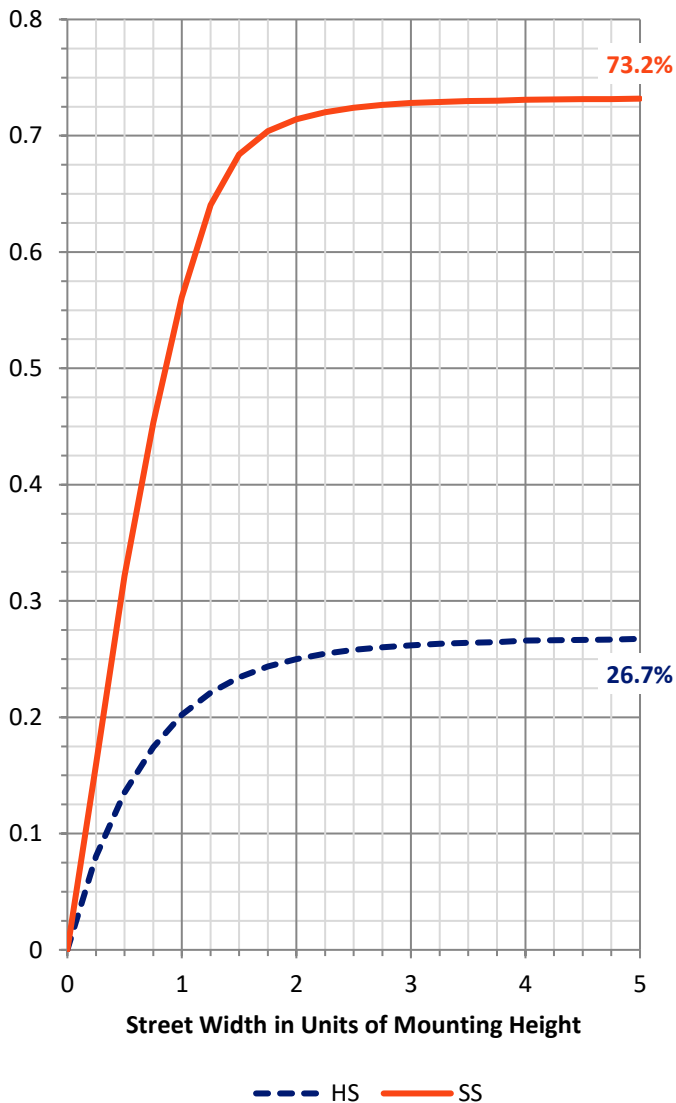
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3706.1	0.0	3706.1
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	10077.8	0.0	10077.8
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	13783.9	0.0	13783.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.5	1.9
10°-20°	821.6	6.0
20°-30°	1436.9	10.4
30°-40°	2249.7	16.3
40°-50°	3272.7	23.7
50°-60°	3596.9	26.1
60°-70°	1605.5	11.6
70°-80°	463.7	3.4
80°-90°	75.2	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°	13783.9	100.0
0°-180°	13783.9	100.0

**Coefficient of Utilization**

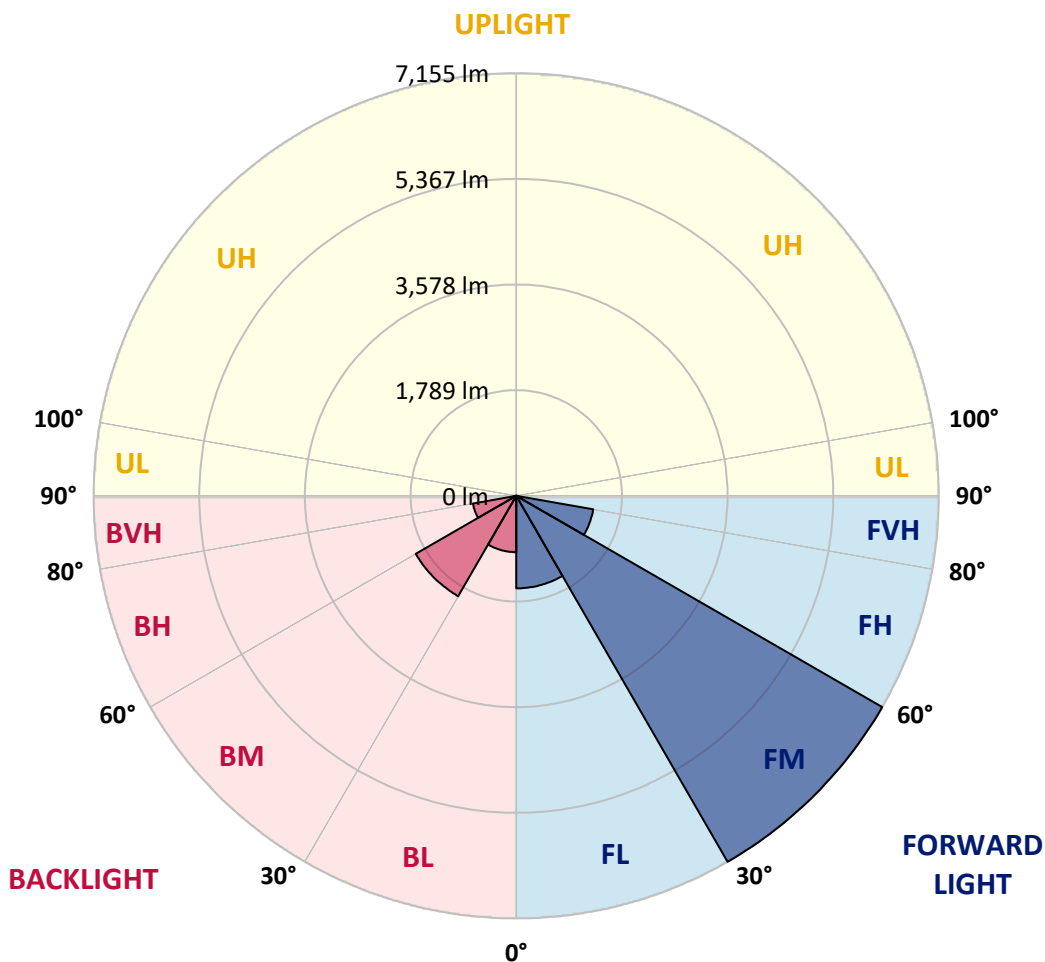


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.4	11.4			
FM (30°-60°)	7155.5	51.9			
FH (60°-80°)	1323.6	9.6			G1/1800
FVH (80°-90°)	32.4	0.2			G1/100
BL (0°-30°)	953.6	6.9	B2/1000		
BM (30°-60°)	1963.9	14.2	B2/2500		
BH (60°-80°)	745.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	42.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2637.4	2637.4	2637.4	2637.4	2637.4	2637.4	2637.4	2637.4	2637.4	2637.4	2637.4
2.5°	2905.4	2859.0	2855.4	2842.8	2850.0	2817.9	2783.9	2739.2	2692.7	2721.4	2653.4
5°	3109.1	3046.6	3071.6	3028.7	3034.0	2991.1	2921.5	2869.7	2812.5	2778.6	2730.3
7.5°	3180.5	3185.9	3203.8	3196.7	3160.9	3160.9	3114.5	3023.3	2923.3	2903.6	2823.2
10°	3277.1	3278.9	3259.2	3264.6	3314.6	3291.3	3250.2	3210.9	3082.3	3059.1	2916.1
12.5°	3311.0	3278.9	3311.0	3339.6	3398.6	3430.7	3421.8	3393.2	3255.6	3239.5	3030.4
15°	3316.4	3296.7	3323.5	3387.9	3439.6	3575.5	3643.4	3623.7	3441.4	3443.2	3159.2
17.5°	3291.3	3318.2	3328.9	3384.3	3504.0	3630.8	3827.4	3854.2	3704.1	3680.9	3321.7
20°	3325.3	3305.7	3319.9	3370.0	3529.0	3727.3	3984.7	4161.6	3950.7	3934.7	3489.7
22.5°	3455.8	3428.9	3425.4	3457.6	3571.9	3777.3	4150.8	4468.9	4250.9	4259.8	3698.7
25°	3557.6	3571.9	3559.4	3557.6	3629.0	3852.4	4370.6	4835.2	4658.3	4606.5	3945.4
27.5°	3732.7	3766.7	3741.6	3775.6	3759.5	3965.0	4527.9	5240.8	5097.9	5028.2	4168.7
30°	3975.8	3993.6	3970.4	3970.4	3922.1	4122.3	4670.8	5664.3	5605.3	5510.6	4431.4
32.5°	4295.5	4322.4	4275.9	4249.1	4242.0	4356.3	4928.1	6082.4	6182.5	6102.1	4779.8
35°	4719.1	4702.9	4647.6	4622.6	4526.1	4715.5	5310.5	6563.1	6825.7	6682.8	5201.5
37.5°	5092.5	5067.5	5063.9	4924.5	4947.8	5103.2	5635.7	6927.6	7449.3	7408.3	5646.4
40°	5440.9	5464.2	5501.7	5423.1	5387.4	5558.8	6014.5	7206.3	7933.6	7917.5	5989.5
42.5°	5814.4	5792.9	5859.0	5792.9	5739.3	5982.4	6425.5	7399.4	8358.8	8226.6	6348.6
45°	6355.8	6287.9	6311.1	6316.5	6277.2	6366.5	6595.2	7538.7	8657.2	8643.0	6611.3
47.5°	6807.9	6809.7	6770.4	6740.0	6620.3	6709.6	6784.6	7626.3	9000.4	8977.1	6713.1
50°	6975.8	6952.6	7067.0	7133.1	7140.3	6958.0	6932.9	7674.5	9180.8	9079.0	6815.0
52.5°	6371.9	6393.4	6573.8	6966.9	7193.8	7213.5	7106.3	7774.6	9254.0	9232.6	6897.2
55°	5128.3	5231.8	5528.4	5982.4	6520.2	7111.6	7293.9	7878.2	9293.3	9275.5	7261.7
56°	4508.2	4588.6	4974.6	5330.1	6005.6	6741.8	7176.0	7988.9	9323.7	9407.7	7347.5
57.5°	3629.0	3722.0	3998.9	4402.8	5199.7	6037.7	6850.8	7853.2	9205.8	9238.0	7410.0
60°	2269.3	2278.2	2610.6	2876.8	3437.9	4256.2	5228.3	6832.8	8519.7	8473.2	6656.0
62.5°	1488.4	1490.2	1792.2	2010.2	2265.7	2453.3	3077.0	4531.5	6286.1	6203.9	4738.7
65°	1045.3	1068.6	1302.6	1593.9	1697.5	1599.2	1579.5	2389.0	3511.1	3393.2	2546.2
67.5°	764.8	766.6	973.8	1286.5	1436.6	1216.9	988.1	1166.8	1390.1	1386.6	1179.4
70°	505.7	527.1	686.1	961.3	1132.8	977.4	807.7	834.4	884.5	884.5	877.4
72.5°	294.8	314.5	419.9	609.3	636.1	611.1	639.7	714.7	746.9	745.1	736.2
75°	168.0	176.9	200.1	253.8	316.3	373.4	470.0	541.4	573.5	593.2	570.0
77.5°	98.3	103.7	117.9	144.7	164.4	201.9	255.5	305.5	348.4	343.1	346.6
80°	51.8	51.8	66.1	85.7	114.4	143.0	169.8	198.3	221.6	226.9	232.3
82.5°	30.4	32.2	42.9	62.6	82.2	101.9	130.4	150.1	171.6	173.4	176.9
85°	16.1	17.9	26.8	41.1	55.4	62.6	64.4	60.8	66.1	62.6	71.5
87.5°	5.3	5.3	8.9	7.1	7.1	8.9	10.7	10.7	14.3	14.3	14.3
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°	2637.4	2637.4	2637.4	2637.4	2637.4	2637.4	2637.4	2637.4	2637.4	2637.4	2637.4
2.5°	2651.7	2651.7	2621.3	2564.1	2555.2	2532.0	2510.5	2508.7	2492.7	2478.4	2471.2
5°	2701.7	2646.3	2601.7	2549.8	2489.1	2460.5	2428.3	2392.6	2378.3	2392.6	2390.8
7.5°	2758.9	2712.4	2578.4	2482.0	2412.3	2383.6	2347.9	2310.4	2313.9	2313.9	2288.9
10°	2814.3	2751.8	2537.3	2414.0	2312.2	2290.7	2271.1	2285.3	2303.3	2306.8	2290.7
12.5°	2907.2	2766.0	2517.7	2346.1	2281.8	2235.3	2247.8	2287.1	2324.6	2313.9	2326.4
15°	2976.9	2778.6	2428.3	2276.4	2196.0	2217.5	2262.2	2288.9	2351.5	2344.3	2356.8
17.5°	3044.8	2785.7	2340.8	2183.6	2149.6	2208.5	2242.5	2319.3	2339.0	2381.9	2397.9
20°	3184.1	2800.0	2251.4	2126.3	2115.6	2183.6	2242.5	2278.2	2321.1	2358.6	2358.6
22.5°	3255.6	2792.8	2192.5	2051.3	2085.2	2128.1	2181.8	2242.5	2242.5	2278.2	2280.0
25°	3345.0	2764.2	2099.5	2015.5	2040.6	2081.7	2142.4	2121.0	2144.2	2144.2	2172.8
27.5°	3446.8	2703.5	2019.1	1951.2	2001.3	2045.9	2054.9	2040.6	2013.8	2010.2	1999.5
30°	3529.0	2628.5	1960.2	1929.8	1970.9	1995.9	1967.3	1936.9	1890.5	1886.9	1861.9
32.5°	3641.6	2535.5	1886.9	1876.1	1922.7	1924.5	1915.5	1869.0	1801.1	1772.6	1744.0
35°	3831.0	2482.0	1831.5	1847.6	1861.9	1856.5	1840.4	1790.4	1722.5	1710.0	1699.3
37.5°	3970.4	2442.6	1774.4	1794.0	1806.5	1813.7	1765.4	1710.0	1711.8	1686.8	1679.6
40°	4127.6	2417.6	1727.8	1736.8	1738.6	1761.8	1702.9	1676.1	1688.5	1672.5	1683.2
42.5°	4329.5	2424.7	1679.6	1672.5	1706.5	1697.5	1668.9	1633.2	1640.3	1592.1	1599.2
45°	4436.7	2473.0	1651.0	1618.9	1656.4	1654.6	1617.1	1583.1	1540.2	1447.4	1450.9
47.5°	4508.2	2485.5	1583.1	1561.7	1601.0	1624.3	1581.3	1502.7	1442.0	1375.9	1359.8
50°	4581.5	2508.7	1551.0	1506.3	1522.4	1577.7	1524.2	1449.1	1390.1	1331.2	1340.1
52.5°	4645.8	2553.4	1488.4	1422.3	1450.9	1511.7	1483.1	1391.9	1327.7	1279.3	1265.1
55°	4931.6	2653.4	1383.0	1297.3	1365.2	1442.0	1425.9	1315.1	1245.4	1220.4	1216.9
56°	4976.4	2657.0	1327.7	1254.4	1316.9	1418.7	1399.1	1281.1	1218.7	1179.4	1181.1
57.5°	4983.5	2614.1	1249.0	1215.1	1268.7	1384.8	1359.8	1254.4	1168.6	1132.8	1122.1
60°	4384.9	2040.6	1150.7	1129.3	1191.8	1281.1	1272.2	1181.1	1084.6	1043.5	1063.2
62.5°	2989.4	1495.6	1073.9	1070.3	1102.5	1190.0	1166.8	1084.6	1004.2	977.4	964.9
65°	1740.4	1134.6	998.9	984.5	1011.3	1057.8	1073.9	988.1	904.1	886.3	880.9
67.5°	1027.5	938.1	902.3	879.2	870.2	898.8	911.3	861.2	777.3	752.2	773.7
70°	859.5	834.4	836.2	796.9	775.5	755.8	745.1	700.5	630.8	598.6	589.7
72.5°	741.5	730.9	723.6	687.9	668.3	623.6	577.1	532.4	480.7	453.8	455.6
75°	566.4	562.8	566.4	548.6	514.6	478.9	436.0	378.8	339.5	305.5	312.7
77.5°	337.7	348.4	353.8	346.6	332.4	300.2	273.4	235.8	198.3	171.6	168.0
80°	232.3	241.2	250.2	241.2	226.9	203.7	175.1	146.5	119.7	105.4	101.9
82.5°	176.9	185.8	191.2	182.3	164.4	139.4	119.7	100.1	78.6	64.4	60.8
85°	64.4	73.3	71.5	85.7	92.9	89.3	76.8	59.0	44.7	32.2	30.4
87.5°	17.9	16.1	17.9	17.9	17.9	16.1	14.3	14.3	14.3	8.9	7.1
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)