

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: P648403

Luminaire Tested: **GALN-SA4B-835-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-835-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17478.1 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

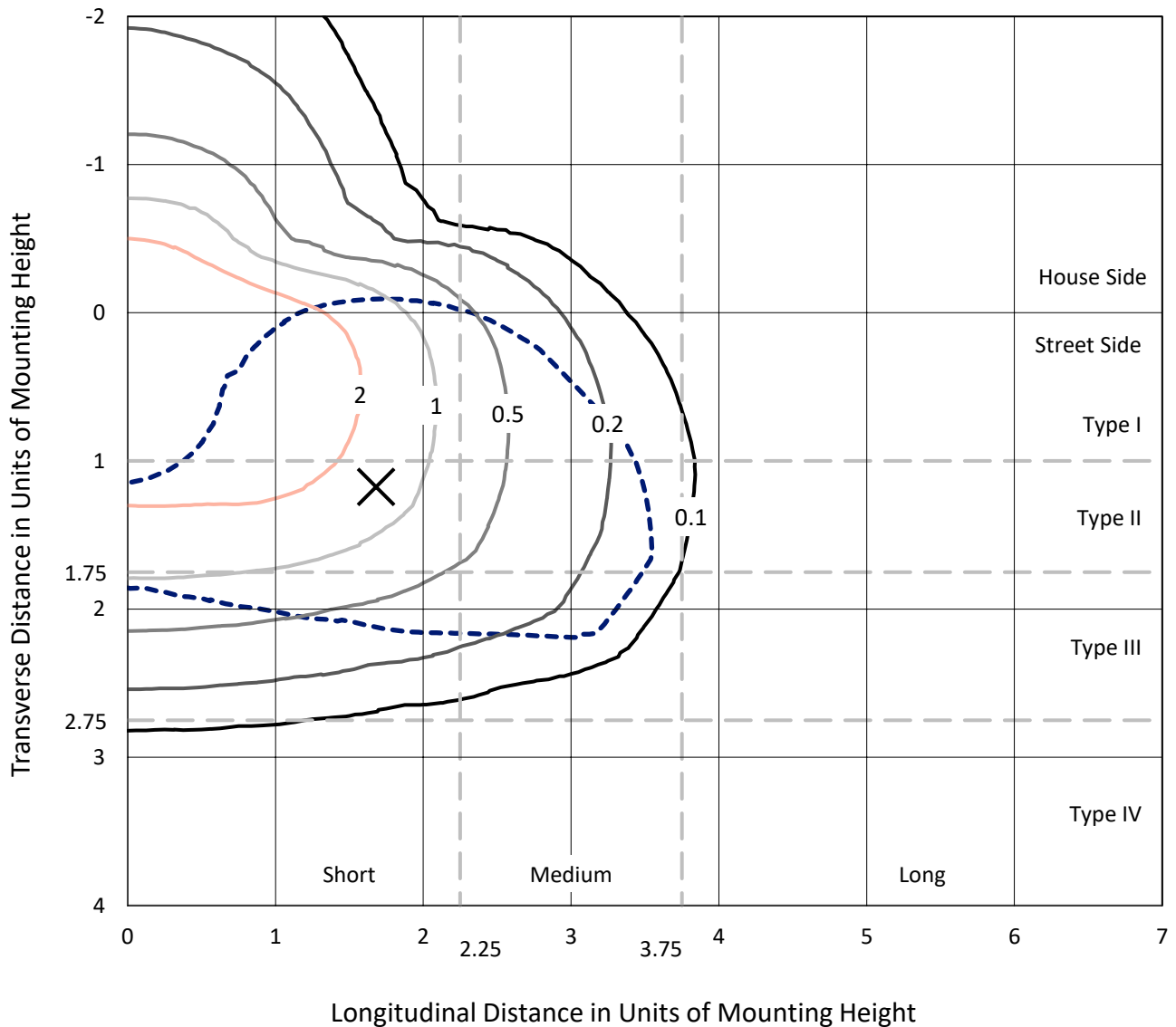
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

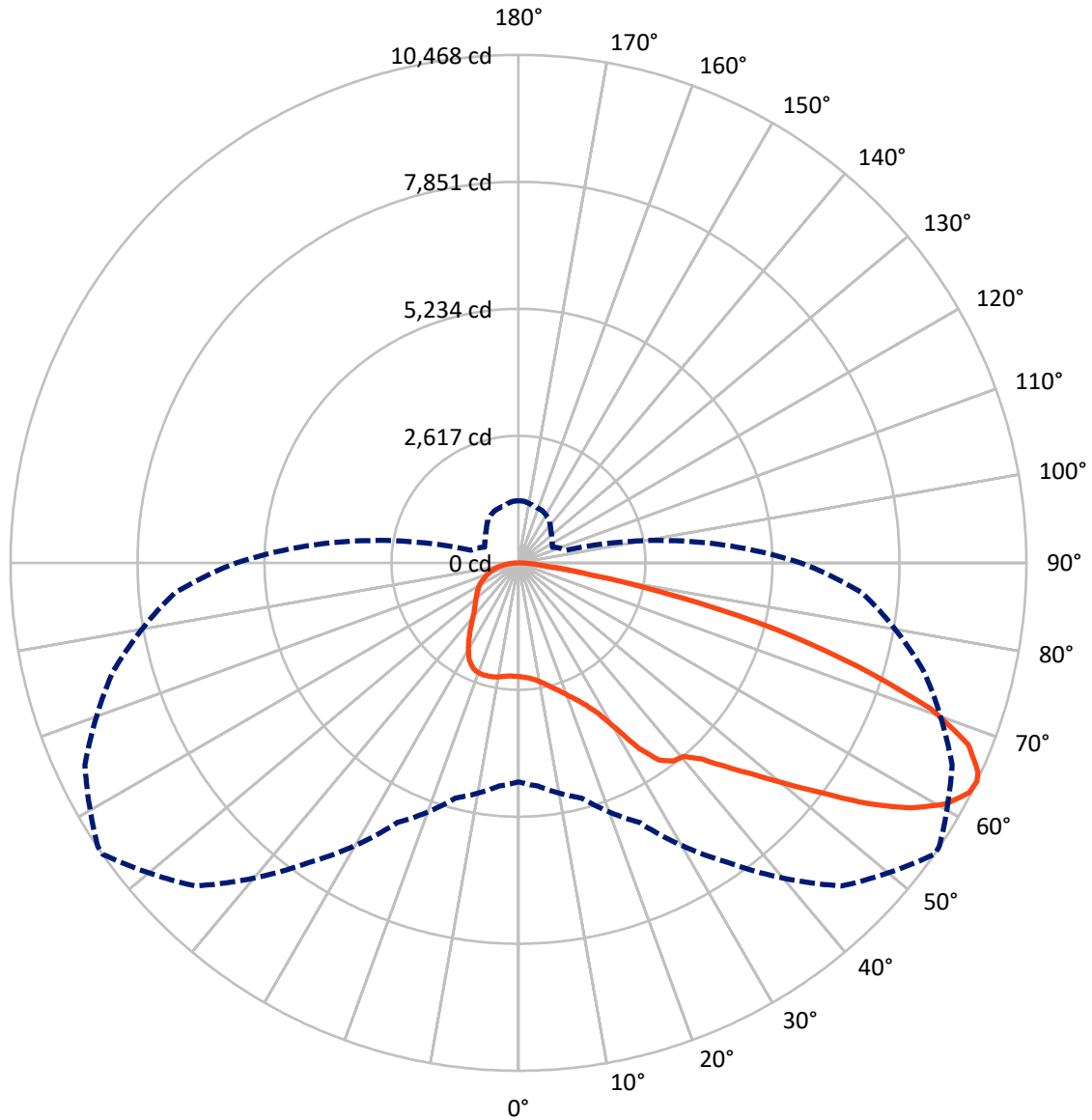
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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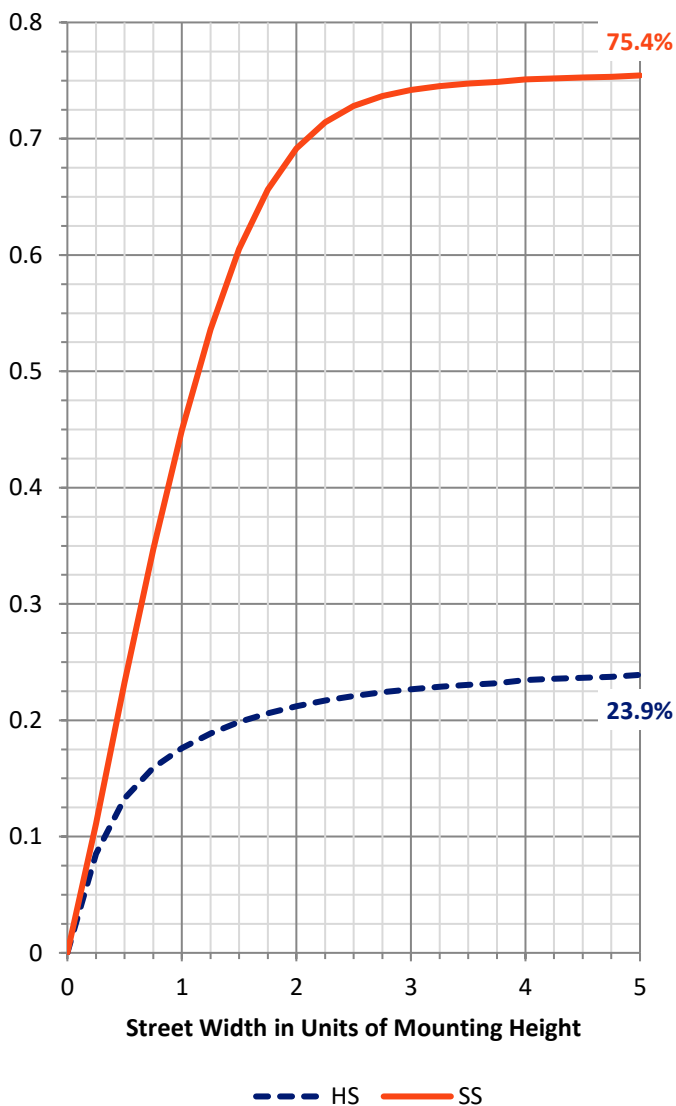
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4245.8	0.0	4245.8
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	13232.3	0.0	13232.3
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	17478.1	0.0	17478.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.1	1.3
10°-20°	719.8	4.1
20°-30°	1281.4	7.3
30°-40°	1971.5	11.3
40°-50°	2794.8	16.0
50°-60°	4045.4	23.1
60°-70°	4186.5	24.0
70°-80°	1960.5	11.2
80°-90°	290.2	1.7
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°	17478.1	100.0
0°-180°	17478.1	100.0

**Coefficient of Utilization**

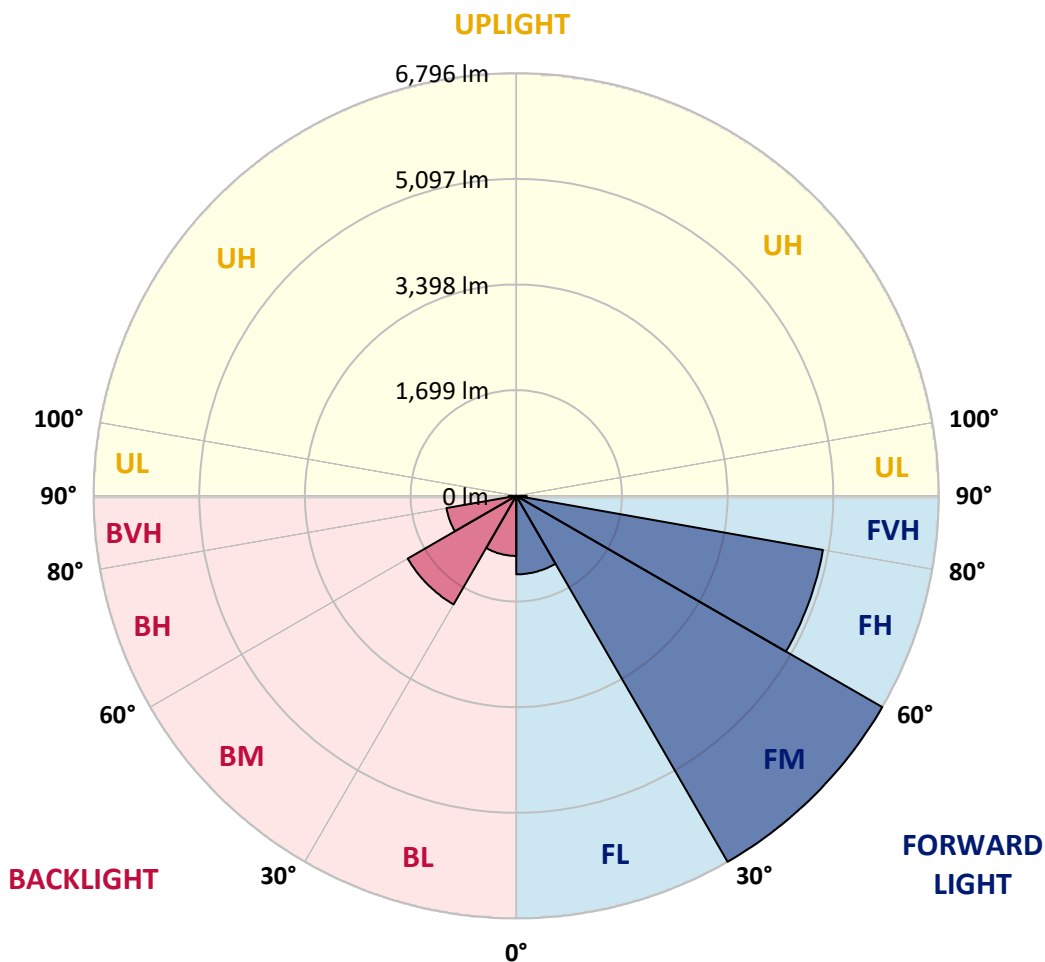


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1262.2	7.2			
FM (30°-60°)	6796.0	38.9			
FH (60°-80°)	5008.0	28.7			G3/7500
FVH (80°-90°)	166.2	1.0			G2/225
BL (0°-30°)	967.0	5.5	B2/1000		
BM (30°-60°)	2015.6	11.5	B2/2500		
BH (60°-80°)	1139.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	124.1	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0
2.5°	2371.3	2370.4	2373.3	2370.4	2372.3	2365.5	2362.5	2364.5	2361.6	2356.8	2348.0
5°	2400.6	2399.6	2400.6	2396.7	2398.6	2394.7	2387.9	2389.9	2385.0	2374.3	2361.6
7.5°	2450.2	2446.3	2446.3	2445.4	2441.5	2435.7	2430.7	2428.8	2423.9	2410.3	2390.8
10°	2514.5	2514.5	2515.5	2507.7	2512.6	2501.9	2497.0	2496.0	2479.4	2462.0	2434.7
12.5°	2599.3	2604.2	2601.3	2597.4	2595.4	2591.5	2575.0	2578.9	2560.3	2530.1	2497.0
15°	2704.6	2712.3	2707.5	2705.5	2700.6	2686.0	2679.2	2676.3	2651.9	2608.1	2564.2
17.5°	2843.9	2834.1	2830.2	2825.4	2804.9	2794.1	2782.5	2780.5	2759.1	2707.5	2639.3
20°	2965.6	2979.3	2971.5	2966.6	2946.1	2925.7	2916.9	2914.0	2895.5	2839.0	2729.9
22.5°	3110.8	3113.8	3116.7	3105.0	3095.2	3079.6	3064.0	3059.2	3052.4	2993.9	2860.5
25°	3265.7	3277.4	3267.7	3255.9	3244.3	3243.3	3257.9	3255.9	3253.1	3196.5	3033.8
27.5°	3518.0	3528.7	3531.6	3519.0	3474.2	3478.1	3511.2	3521.9	3566.7	3473.2	3257.0
30°	3660.3	3671.0	3695.4	3743.1	3814.2	3876.6	3956.4	3980.9	4023.7	3847.3	3521.9
32.5°	3748.0	3751.9	3795.7	3884.4	4097.8	4330.5	4547.8	4556.6	4583.9	4336.4	3764.5
35°	3886.3	3889.2	3924.3	4021.7	4272.1	4659.9	4996.0	5006.7	4984.3	4488.4	3877.6
37.5°	4056.8	4064.6	4087.0	4167.9	4466.9	4935.6	5182.1	5174.3	4975.5	4609.2	4077.2
40°	4305.2	4305.2	4278.9	4388.1	4672.6	5093.4	5247.4	5233.7	5181.1	4959.0	4381.2
42.5°	4524.5	4520.6	4582.9	4657.0	4929.8	5337.0	5521.1	5543.6	5630.2	5398.4	4727.1
45°	4809.9	4827.4	4862.5	4996.9	5367.2	5753.0	5990.7	6012.1	6134.9	5915.7	5131.4
47.5°	5098.3	5104.1	5214.2	5393.5	5908.8	6317.1	6511.9	6547.0	6659.0	6520.7	5566.9
50°	5302.9	5358.4	5534.8	5817.3	6467.1	7004.9	7156.9	7198.8	7396.5	7179.3	6074.5
52.5°	5519.1	5573.7	5789.0	6219.7	7108.2	7708.3	7895.4	7923.6	8129.2	7845.7	6593.8
55°	5704.3	5755.0	5999.5	6576.3	7618.7	8426.3	8765.4	8732.3	8830.7	8359.2	6994.2
57.5°	5734.5	5775.4	6083.3	6804.2	8002.6	9042.1	9528.2	9547.7	9433.7	8743.0	7324.5
60°	5500.7	5584.4	5938.1	6779.8	8175.0	9470.8	10097.2	10110.9	9787.4	8939.7	7456.0
62.5°	5086.6	5077.8	5505.5	6388.2	7933.4	9568.2	10432.4	10417.7	9925.7	8845.3	7328.3
64°	4514.7	4619.9	5019.3	5907.0	7543.7	9418.2	10467.5	10459.6	9859.5	8648.5	7111.1
65°	4166.0	4160.1	4554.6	5513.3	7155.9	9192.1	10405.1	10394.3	9721.1	8472.1	6942.5
67.5°	3007.5	3021.2	3410.9	4254.6	5817.3	8308.5	9998.8	9958.8	9175.6	7887.6	6301.5
70°	1821.9	1829.6	2135.6	2822.4	4175.7	6716.5	9012.9	9014.8	8340.6	7014.7	5363.3
72.5°	959.6	980.1	1102.9	1602.6	2536.0	4712.5	7311.8	7485.2	7160.8	5986.8	4237.0
75°	533.9	536.8	623.5	790.1	1293.8	2637.3	5495.8	5545.4	5669.2	4818.7	3133.2
77.5°	407.2	413.1	440.4	510.5	704.4	1222.7	3326.1	3575.5	3995.4	3397.2	1787.7
80°	330.3	336.1	359.5	401.4	468.6	579.7	1545.2	1679.6	2138.5	1508.1	697.6
82.5°	257.2	253.3	283.5	310.8	341.0	343.0	634.2	701.5	871.0	648.9	302.0
85°	191.0	191.0	215.3	209.5	220.2	200.7	279.6	308.8	348.7	275.7	140.3
87.5°	76.0	83.8	141.3	126.7	98.4	78.9	103.3	109.2	120.8	108.1	58.5
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°	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0
2.5°	2348.9	2351.8	2345.0	2340.2	2338.2	2335.3	2332.4	2333.3	2337.3	2341.2	2340.2
5°	2360.6	2361.6	2349.9	2344.1	2340.2	2336.2	2336.2	2339.2	2347.0	2352.8	2352.8
7.5°	2389.9	2389.9	2373.3	2362.5	2356.8	2349.9	2348.0	2348.9	2354.8	2362.5	2363.6
10°	2435.7	2431.8	2410.3	2393.8	2383.1	2366.5	2351.8	2344.1	2347.0	2351.8	2351.8
12.5°	2491.2	2480.5	2453.2	2430.7	2404.4	2373.3	2343.1	2327.5	2326.5	2331.4	2329.4
15°	2550.6	2538.9	2500.9	2460.0	2414.2	2368.4	2332.4	2309.9	2292.4	2287.5	2298.3
17.5°	2619.8	2595.4	2542.8	2486.3	2418.1	2358.7	2302.2	2256.4	2225.2	2216.4	2219.3
20°	2703.5	2671.4	2600.3	2511.6	2415.2	2323.6	2235.9	2174.5	2123.9	2108.3	2110.3
22.5°	2819.5	2764.0	2659.7	2524.3	2390.8	2257.4	2135.6	2055.7	1994.3	1969.9	1984.6
25°	2951.0	2890.6	2716.2	2521.4	2327.5	2151.1	2016.7	1912.5	1857.0	1820.9	1828.7
27.5°	3132.2	3025.0	2776.6	2495.1	2236.9	2021.5	1865.7	1767.3	1716.6	1698.1	1706.9
30°	3364.1	3199.5	2841.9	2423.9	2093.7	1857.9	1713.8	1649.4	1619.2	1595.8	1603.7
32.5°	3531.6	3322.2	2856.5	2304.1	1938.8	1708.8	1610.5	1562.7	1529.6	1507.2	1512.1
35°	3651.5	3426.5	2849.7	2157.0	1777.0	1586.1	1528.6	1489.7	1436.0	1387.3	1378.5
37.5°	3812.3	3557.0	2800.0	1996.3	1617.3	1503.3	1462.3	1390.3	1313.3	1248.0	1245.1
40°	4058.8	3709.9	2693.8	1807.2	1480.9	1441.9	1392.3	1298.7	1215.8	1163.2	1159.4
42.5°	4313.0	3851.3	2549.6	1608.5	1368.8	1377.6	1317.2	1224.6	1174.0	1139.9	1136.0
45°	4623.8	4004.2	2393.8	1436.0	1286.0	1317.2	1251.9	1198.3	1168.2	1145.8	1139.9
47.5°	4959.9	4161.0	2218.4	1281.1	1215.8	1261.6	1224.6	1200.3	1183.7	1168.2	1161.3
50°	5322.4	4336.4	2053.7	1156.4	1152.6	1204.2	1221.7	1212.9	1203.2	1198.3	1192.5
52.5°	5719.9	4515.7	1915.4	1068.8	1097.0	1163.2	1222.7	1229.5	1229.5	1226.6	1222.7
55°	5988.8	4640.4	1775.1	997.6	1040.5	1130.1	1220.8	1247.1	1256.8	1252.9	1249.0
57.5°	6187.5	4708.6	1598.7	936.2	992.8	1098.0	1210.0	1249.0	1258.8	1263.6	1261.6
60°	6228.5	4645.2	1367.8	871.9	941.2	1051.3	1171.1	1219.8	1232.4	1262.7	1265.6
62.5°	6044.3	4450.4	1137.9	808.6	877.8	980.1	1118.4	1186.6	1212.0	1258.8	1263.6
64°	5818.2	4232.2	1010.3	768.7	836.9	940.1	1092.1	1177.9	1211.0	1273.4	1277.2
65°	5652.6	4073.4	930.4	743.4	810.6	913.8	1077.6	1180.8	1219.8	1295.8	1301.6
67.5°	5042.8	3526.8	769.7	684.0	748.2	869.1	1080.5	1205.2	1217.8	1304.6	1303.5
70°	4172.8	2807.8	645.0	629.4	687.8	833.0	1068.8	1166.2	1167.1	1224.6	1211.0
72.5°	3124.4	2075.2	559.2	572.8	620.6	747.2	1009.4	1113.6	1097.0	1104.8	1091.2
75°	2146.3	1372.8	481.3	512.5	550.4	660.5	925.5	1011.2	984.9	975.2	965.5
77.5°	1145.8	759.0	400.4	453.0	478.3	570.9	807.7	890.5	863.2	825.2	812.5
80°	463.8	357.5	322.5	375.1	389.7	459.9	672.2	723.9	703.4	637.1	615.8
82.5°	232.9	214.3	253.3	295.2	296.2	328.3	499.8	548.5	502.7	421.9	403.3
85°	121.8	125.7	174.4	207.5	183.1	177.3	300.0	332.2	305.0	265.0	238.7
87.5°	43.8	50.7	91.6	90.6	64.3	34.1	66.2	32.2	17.5	10.7	13.6
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)