

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: P647270

Luminaire Tested: **GALN-SA2D-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10323.9 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

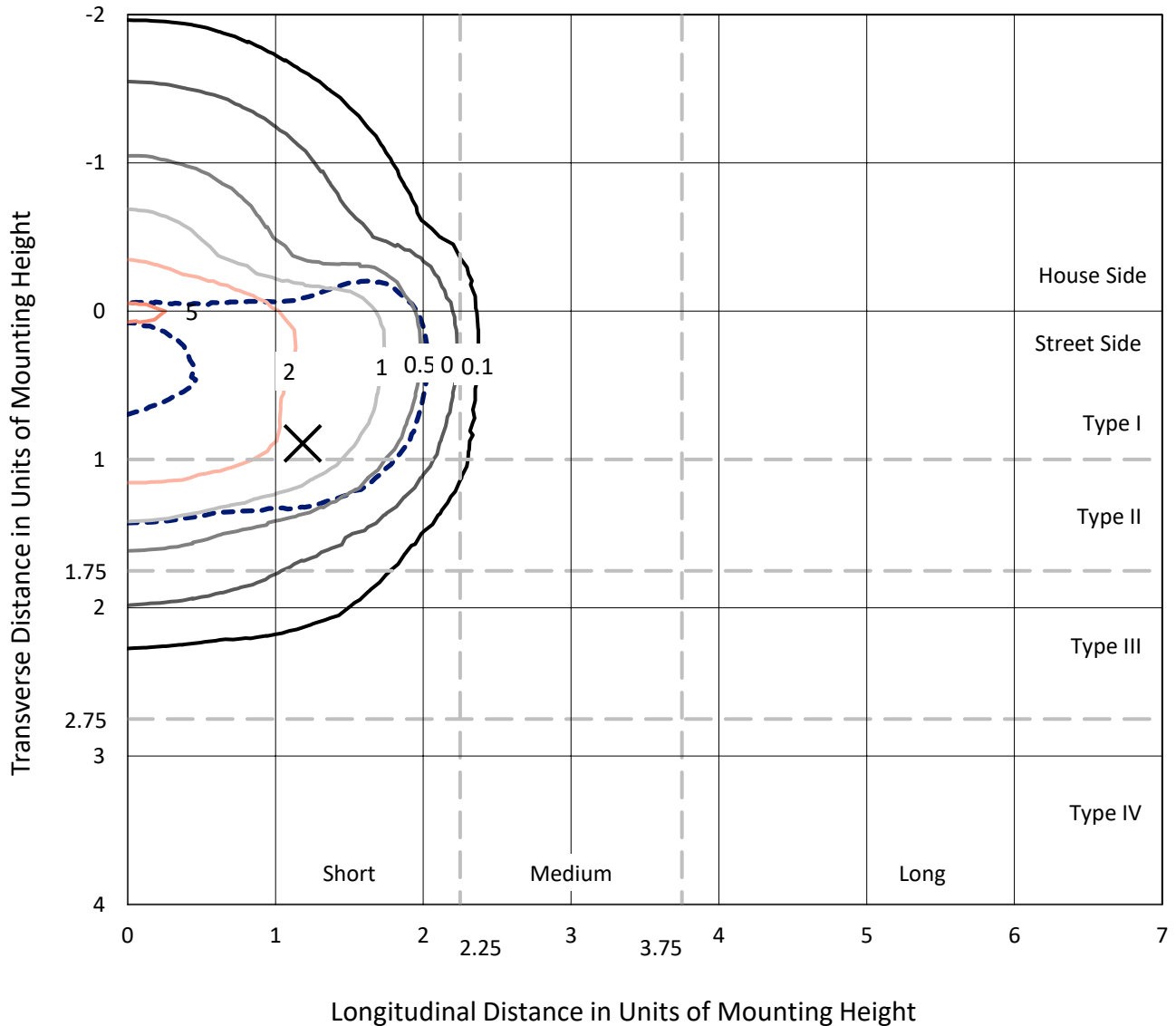
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA2D-835-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

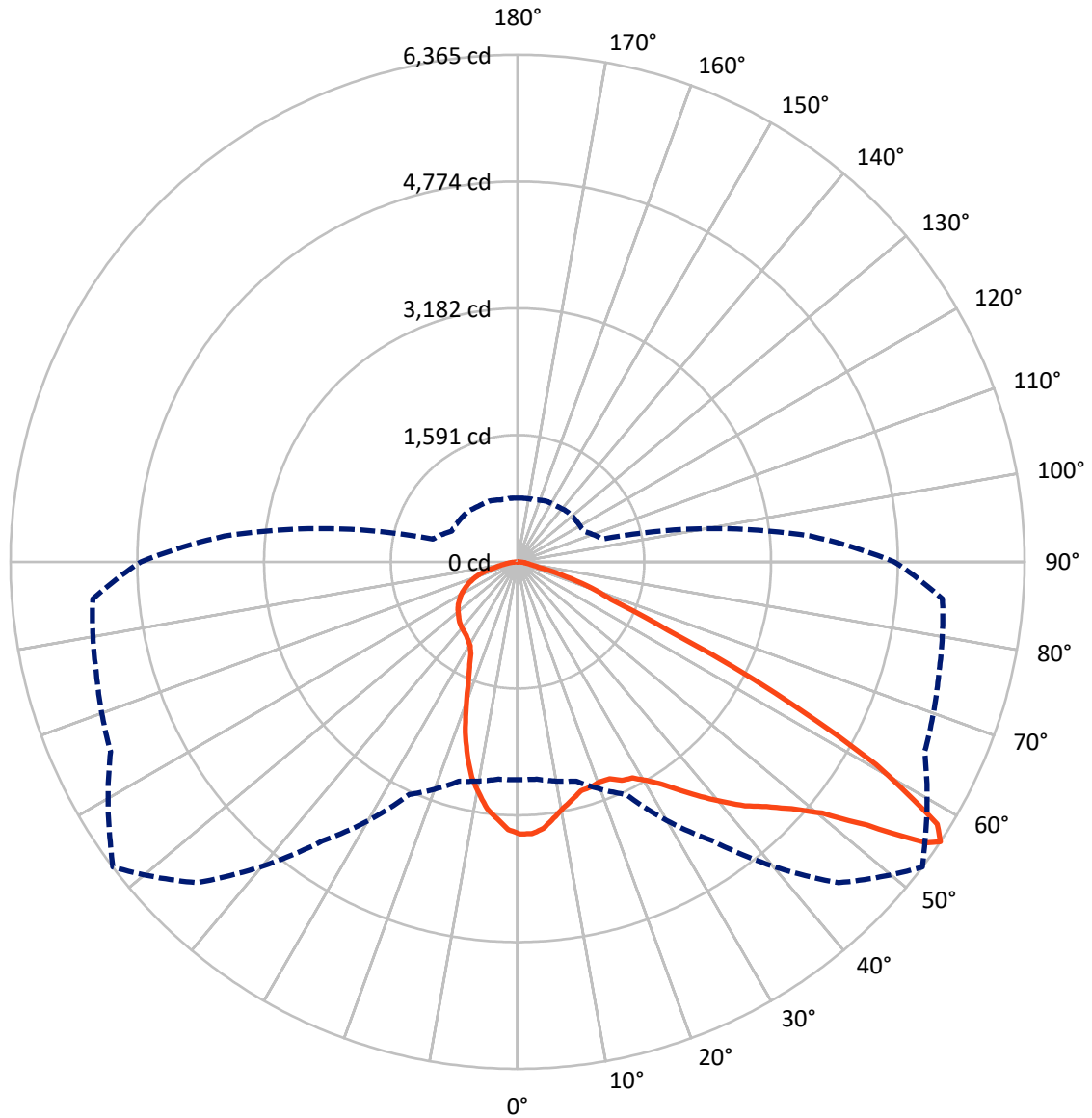
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

REPORT NUMBER: P647270
CATALOG NUMBER: GALN-SA2D-835-U-SL2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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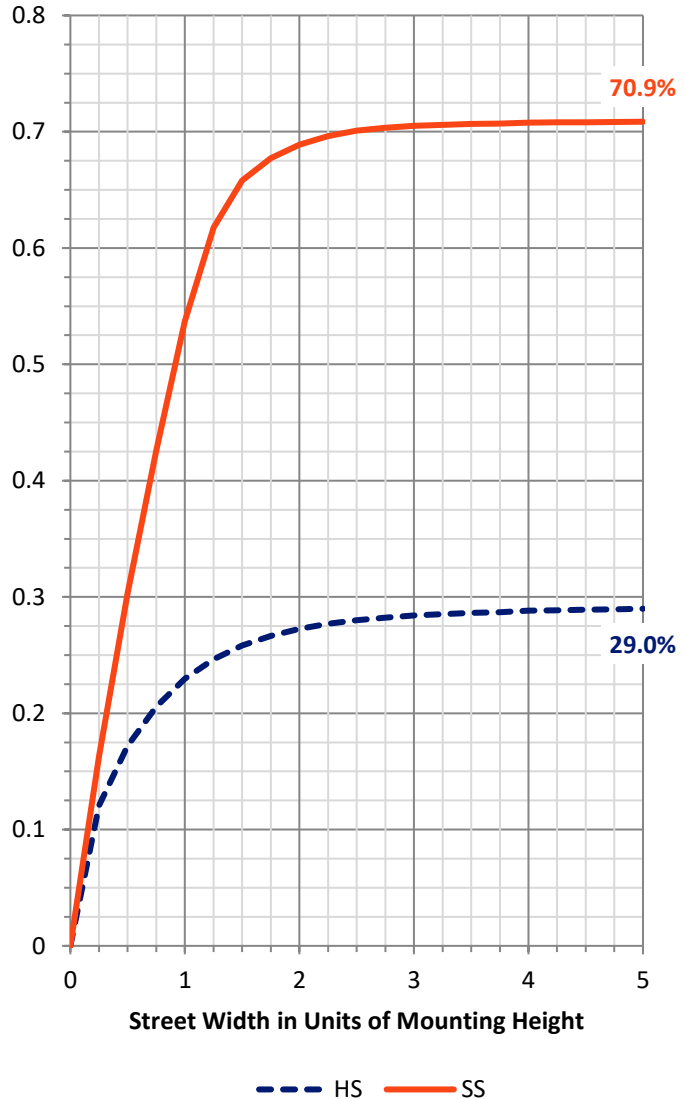
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3012.7	0.0	3012.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	7311.1	0.0	7311.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	10323.9	0.0	10323.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.4	2.9
10°-20°	755.2	7.3
20°-30°	1113.6	10.8
30°-40°	1591.1	15.4
40°-50°	2190.0	21.2
50°-60°	2588.0	25.1
60°-70°	1379.2	13.4
70°-80°	349.9	3.4
80°-90°	54.6	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°	10323.9	100.0
0°-180°	10323.9	100.0

Coefficient of Utilization

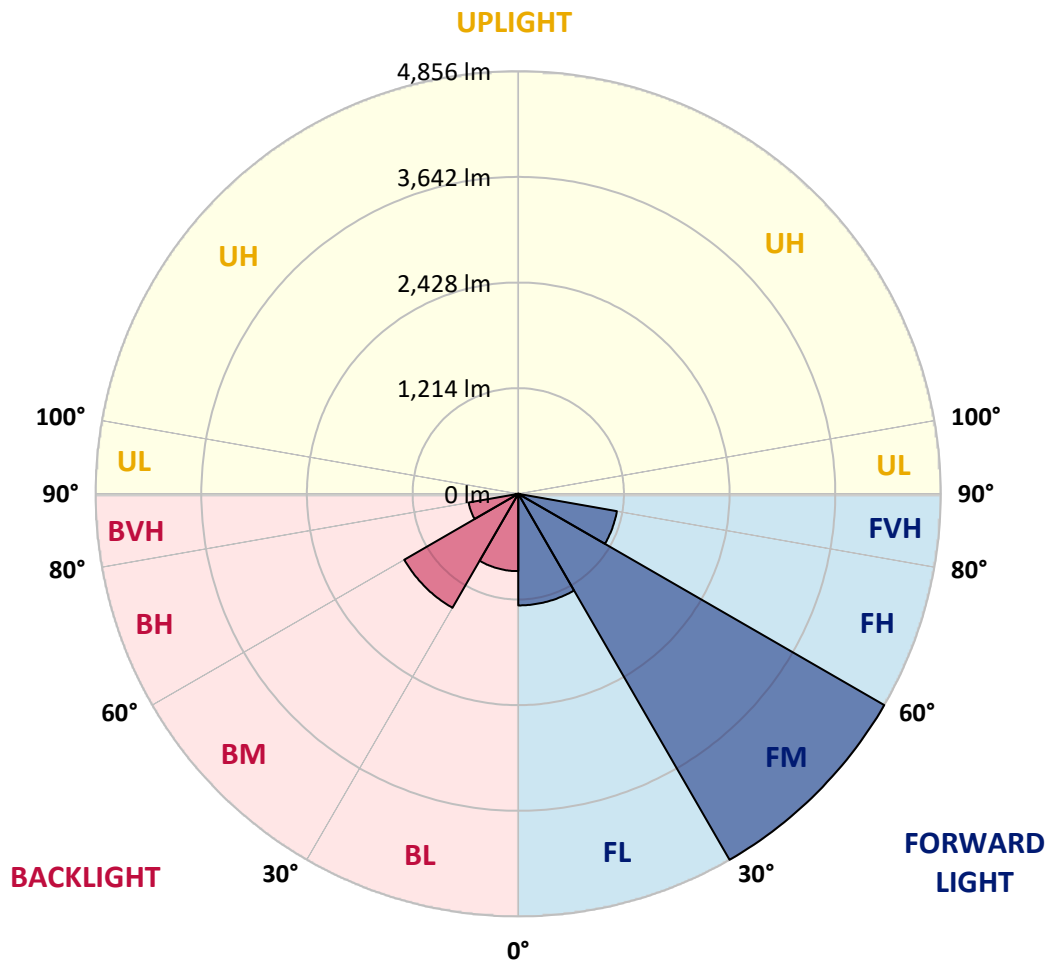


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1282.6	12.4			
FM (30°-60°)	4856.1	47.0			
FH (60°-80°)	1150.5	11.1			G1/1800
FVH (80°-90°)	21.9	0.2			G1/100
BL (0°-30°)	888.6	8.6	B2/1000		
BM (30°-60°)	1512.9	14.7	B2/2500		
BH (60°-80°)	578.6	5.6	B2/1000		G2/1000
BVH (80°-90°)	32.6	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°	53°	55°	65°	75°	85°
0°	3415.5	3415.5	3415.5	3415.5	3415.5	3415.5	3415.5	3415.5	3415.5	3415.5	3415.5
2.5°	3373.2	3344.0	3361.3	3354.6	3408.9	3424.8	3416.9	3423.5	3454.0	3439.4	3408.9
5°	3152.0	3193.1	3201.0	3220.9	3252.7	3314.9	3363.9	3377.2	3391.7	3459.2	3452.6
7.5°	2950.7	2978.5	2964.0	3022.2	3091.0	3191.7	3251.3	3261.9	3395.6	3432.8	3460.5
10°	2823.6	2795.7	2861.9	2877.8	2956.0	3071.2	3142.7	3186.4	3308.3	3455.3	3472.4
12.5°	2705.7	2696.4	2736.1	2781.1	2868.6	2987.8	3060.6	3077.8	3265.9	3420.8	3501.7
15°	2618.3	2607.7	2647.4	2680.5	2782.5	2888.4	2981.1	3030.1	3219.5	3401.0	3476.4
17.5°	2549.4	2548.1	2570.6	2630.2	2734.8	2823.6	2973.2	2975.9	3195.7	3431.4	3497.7
20°	2545.5	2544.1	2548.1	2614.3	2709.6	2818.3	2948.1	2971.9	3195.7	3410.3	3499.0
22.5°	2578.6	2557.4	2581.2	2623.6	2692.4	2827.5	2957.3	3010.2	3272.5	3514.9	3558.6
25°	2631.5	2636.8	2650.1	2664.6	2704.3	2848.7	3039.4	3083.1	3362.6	3604.9	3640.7
27.5°	2728.2	2725.5	2730.9	2738.8	2773.2	2868.6	3072.5	3185.1	3550.6	3765.1	3729.4
30°	2869.9	2860.6	2881.8	2909.6	2877.8	2932.2	3182.4	3267.2	3725.4	3926.7	3828.7
32.5°	2998.3	3032.8	3072.5	3084.5	3046.0	3056.6	3328.1	3414.2	3871.2	4125.4	3950.5
35°	3158.6	3186.4	3239.4	3276.5	3269.9	3238.1	3526.8	3640.7	4081.7	4271.1	4079.0
37.5°	3314.9	3348.0	3435.4	3545.3	3484.4	3469.9	3738.7	3832.7	4146.6	4349.3	4173.1
40°	3566.5	3565.2	3716.2	3773.1	3827.4	3802.2	3958.5	3990.3	4181.0	4332.0	4175.7
42.5°	3861.8	3843.3	3996.9	4085.7	4155.9	4158.5	4187.6	4177.1	4196.9	4244.6	4147.9
45°	4142.6	4182.3	4337.3	4496.2	4566.4	4574.4	4381.0	4361.2	4224.8	4219.4	4094.9
47.5°	4485.7	4494.9	4622.0	4831.3	4994.2	4938.5	4631.3	4587.6	4346.6	4387.6	4183.6
50°	4505.5	4574.4	4688.3	4934.6	5435.2	5420.6	4955.8	4873.6	4542.6	4626.0	4431.3
52.5°	4089.6	4073.7	4208.9	4611.5	5402.1	5900.1	5493.4	5297.5	4963.8	4900.2	4832.6
55°	3116.3	3153.3	3272.5	3679.1	4690.9	5906.6	6225.9	6065.6	5414.0	5305.4	5227.3
56°	2733.5	2738.8	2851.4	3222.2	4280.3	5696.1	6364.9	6235.1	5637.8	5472.3	5353.1
57.5°	2266.0	2235.5	2293.8	2496.4	3612.8	5251.1	6212.6	6339.7	5900.1	5652.4	5486.9
60°	1783.9	1777.3	1753.5	1790.6	2283.2	3955.9	5171.6	5457.7	5873.6	5482.9	5255.1
62.5°	1456.8	1423.7	1471.3	1524.3	1586.6	2454.1	3634.1	3802.2	4663.1	4377.0	3948.0
65°	1129.7	1113.8	1173.4	1345.6	1382.6	1558.8	2070.0	2199.8	2753.3	2704.3	2381.2
67.5°	777.4	780.0	831.7	1093.9	1282.0	1266.1	1267.4	1334.9	1437.0	1067.5	929.7
70°	492.7	491.3	519.1	704.5	1031.7	1042.3	989.3	969.4	919.1	556.2	589.4
72.5°	316.5	307.2	321.8	389.4	533.7	617.2	635.7	647.6	532.4	437.1	474.1
75°	178.8	169.5	164.2	181.4	210.5	243.7	267.6	275.5	308.6	331.1	350.9
77.5°	54.3	49.0	59.6	79.5	104.6	140.4	170.9	176.2	207.9	234.4	254.2
80°	23.8	26.5	37.1	53.0	74.2	99.4	120.5	128.5	149.6	169.5	174.8
82.5°	14.6	15.9	25.1	35.8	51.7	70.2	86.1	88.7	109.9	125.8	129.8
85°	5.3	6.7	13.2	21.2	33.1	45.0	45.0	49.0	45.0	45.0	49.0
87.5°	0.0	0.0	1.3	2.7	2.7	4.0	5.3	5.3	6.7	7.9	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647270

CATALOG NUMBER: GALN-SA2D-835-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3415.5	3415.5	3415.5	3415.5	3415.5	3415.5	3415.5	3415.5	3415.5	3415.5	3415.5
2.5°	3424.8	3418.2	3407.6	3369.2	3365.2	3353.3	3287.1	3276.5	3287.1	3255.3	3257.9
5°	3418.2	3438.1	3358.6	3320.2	3248.7	3197.0	3137.4	3106.9	3052.7	3018.2	3056.6
7.5°	3447.3	3439.4	3340.0	3256.6	3149.3	3018.2	2913.6	2854.0	2758.7	2732.2	2752.0
10°	3436.7	3394.4	3277.8	3167.9	2965.2	2850.0	2680.5	2516.3	2426.2	2379.9	2373.3
12.5°	3422.2	3410.3	3215.5	3026.1	2812.9	2570.6	2332.2	2177.3	2030.2	1966.7	1976.0
15°	3439.4	3338.7	3099.0	2859.3	2575.9	2258.0	2001.1	1801.1	1699.2	1658.1	1658.1
17.5°	3431.4	3304.3	3043.4	2672.5	2313.7	1937.5	1655.4	1534.9	1492.6	1492.6	1504.5
20°	3435.4	3326.8	2930.8	2485.9	2003.8	1631.6	1426.3	1382.6	1401.2	1407.8	1414.4
22.5°	3457.9	3252.7	2820.9	2280.6	1716.4	1395.9	1295.2	1296.6	1329.7	1365.4	1358.8
25°	3485.8	3223.5	2687.1	2076.6	1496.5	1280.7	1248.9	1244.9	1270.1	1288.6	1291.2
27.5°	3461.9	3173.2	2550.7	1822.4	1316.5	1203.9	1197.2	1199.9	1207.9	1244.9	1233.0
30°	3540.0	3187.7	2379.9	1609.1	1217.1	1178.6	1170.7	1166.7	1178.6	1189.3	1180.0
32.5°	3636.7	3136.1	2252.8	1403.8	1168.1	1160.2	1144.3	1139.0	1145.6	1135.0	1140.3
35°	3679.1	3126.8	2087.2	1256.8	1129.7	1123.1	1113.8	1112.5	1113.8	1104.5	1096.6
37.5°	3703.0	3170.5	1897.8	1189.3	1105.8	1112.5	1091.3	1088.6	1064.8	1070.1	1074.0
40°	3744.0	3103.0	1744.2	1124.4	1091.3	1078.0	1059.5	1055.5	1039.6	1030.3	1039.6
42.5°	3684.4	3083.1	1593.2	1096.6	1070.1	1055.5	1042.3	1019.8	1014.5	1006.5	1001.2
45°	3636.7	2969.2	1458.1	1062.1	1044.9	1037.0	1011.8	988.0	968.1	976.1	964.1
47.5°	3672.4	2929.5	1324.4	1033.0	1010.5	1001.2	976.1	957.5	937.6	928.4	925.7
50°	3815.5	3003.7	1211.8	1011.8	981.3	976.1	943.0	921.7	903.2	896.6	899.3
52.5°	4157.2	3206.3	1135.0	968.1	953.5	929.7	911.2	884.7	872.7	851.6	864.8
55°	4590.3	3536.0	1115.1	927.1	919.1	897.9	872.7	852.9	830.4	813.1	809.2
56°	4729.3	3693.6	1099.3	911.2	897.9	886.0	852.9	840.9	805.2	801.2	798.6
57.5°	4841.9	3832.7	1101.8	880.7	867.5	856.8	837.0	807.9	784.0	769.5	776.1
60°	4587.6	3587.7	1051.6	834.4	831.7	811.8	784.0	770.8	741.7	724.4	720.4
62.5°	3410.3	2435.5	852.9	774.8	773.4	752.2	720.4	705.9	700.6	676.7	676.7
65°	1964.0	1527.0	737.7	725.8	715.2	694.0	662.2	650.3	637.0	629.1	622.5
67.5°	838.4	792.0	670.1	668.8	656.9	630.4	598.6	580.0	562.8	546.9	554.9
70°	607.9	617.2	605.3	598.6	584.0	550.9	523.1	500.6	474.1	463.5	471.4
72.5°	482.1	501.9	519.1	520.5	503.2	464.9	434.4	403.9	374.8	360.3	366.8
75°	365.5	378.7	396.0	400.0	374.8	348.3	319.2	287.4	264.9	247.7	250.3
77.5°	263.6	260.9	276.8	274.1	262.2	243.7	217.2	188.1	162.9	147.0	148.3
80°	180.1	184.1	193.3	192.1	177.4	165.5	145.7	121.8	103.3	90.0	87.4
82.5°	125.8	132.4	140.4	133.7	121.8	109.9	95.4	78.1	63.6	53.0	50.3
85°	45.0	51.7	59.6	63.6	67.6	64.9	54.3	43.7	31.8	26.5	25.1
87.5°	9.2	10.6	11.9	11.9	11.9	10.6	9.2	9.2	7.9	4.0	4.0
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)