

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: P646775

Luminaire Tested: **GALN-SA2C-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646775
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-SA2C-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA 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: 9382.7 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

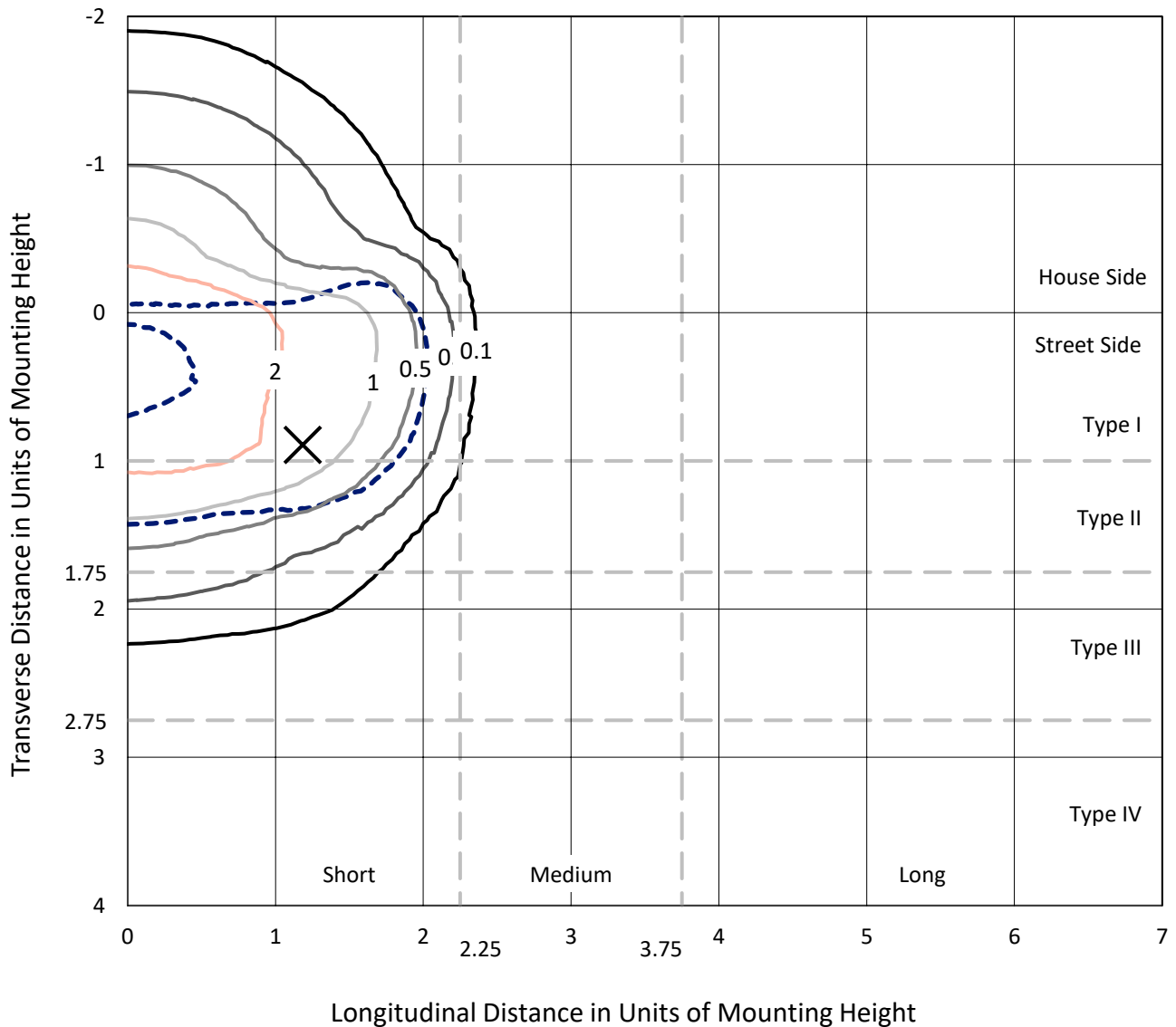
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646775
 CATALOG NUMBER: GALN-SA2C-835-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

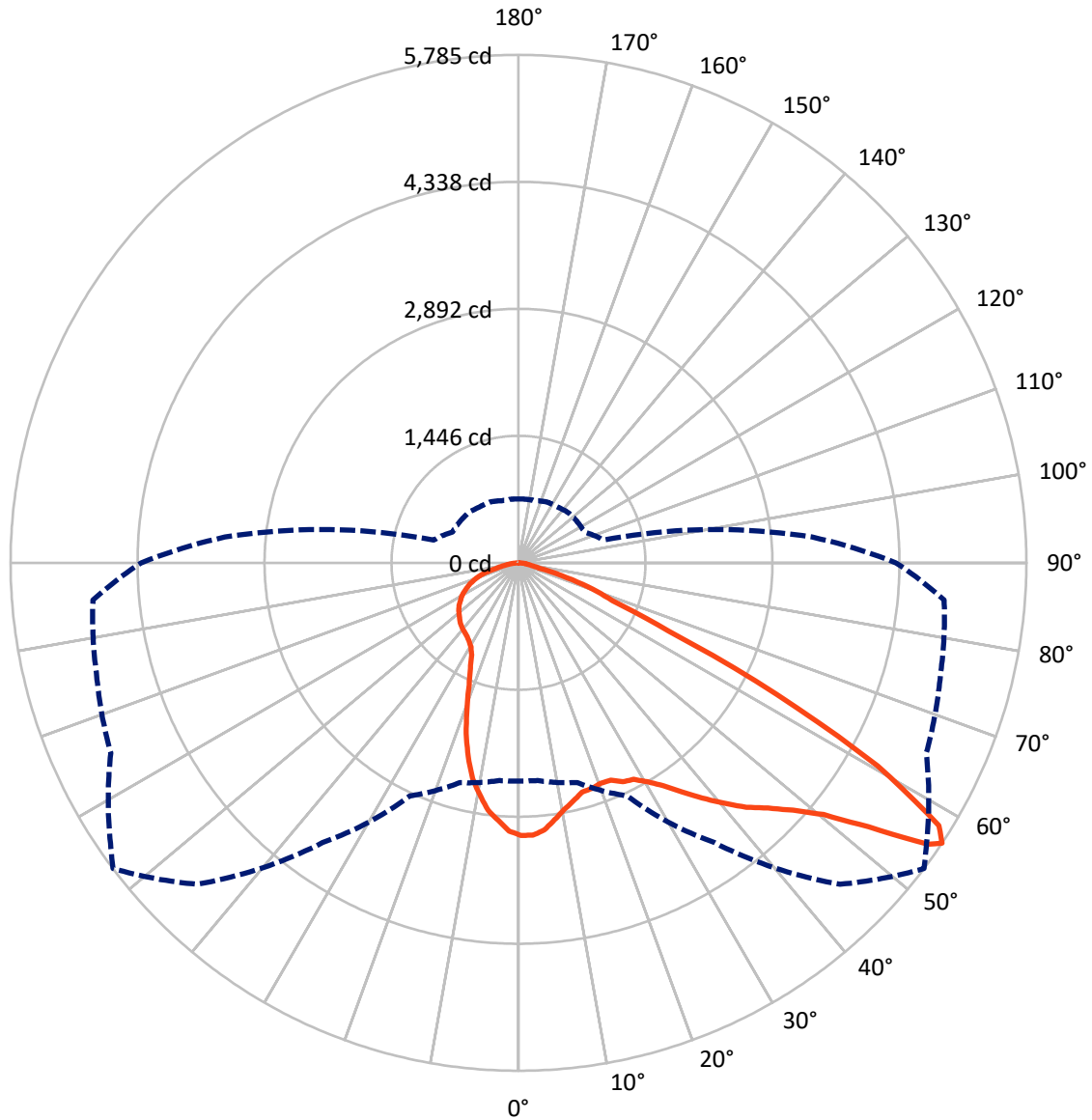
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

REPORT NUMBER: P646775
CATALOG NUMBER: GALN-SA2C-835-U-SL2-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P646775
 CATALOG NUMBER: GALN-SA2C-835-U-SL2-GRSWH

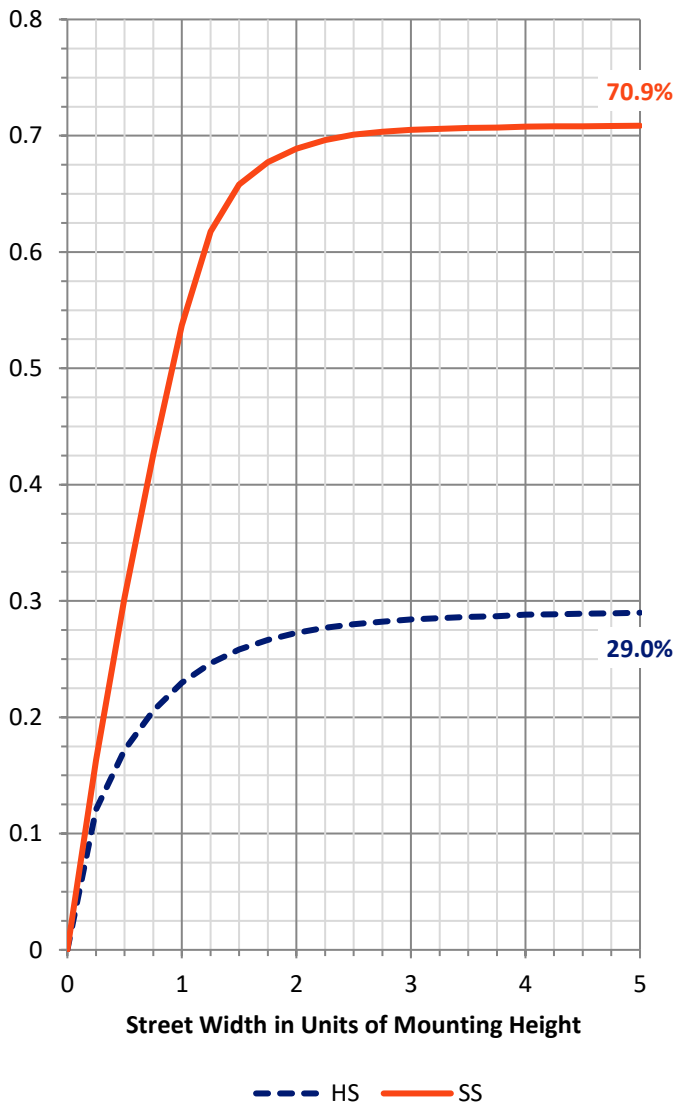
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2738.1	0.0	2738.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	6644.6	0.0	6644.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	9382.7	0.0	9382.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	2.9
10°-20°	686.3	7.3
20°-30°	1012.1	10.8
30°-40°	1446.1	15.4
40°-50°	1990.3	21.2
50°-60°	2352.0	25.1
60°-70°	1253.5	13.4
70°-80°	318.0	3.4
80°-90°	49.6	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°	9382.7	100.0
0°-180°	9382.7	100.0

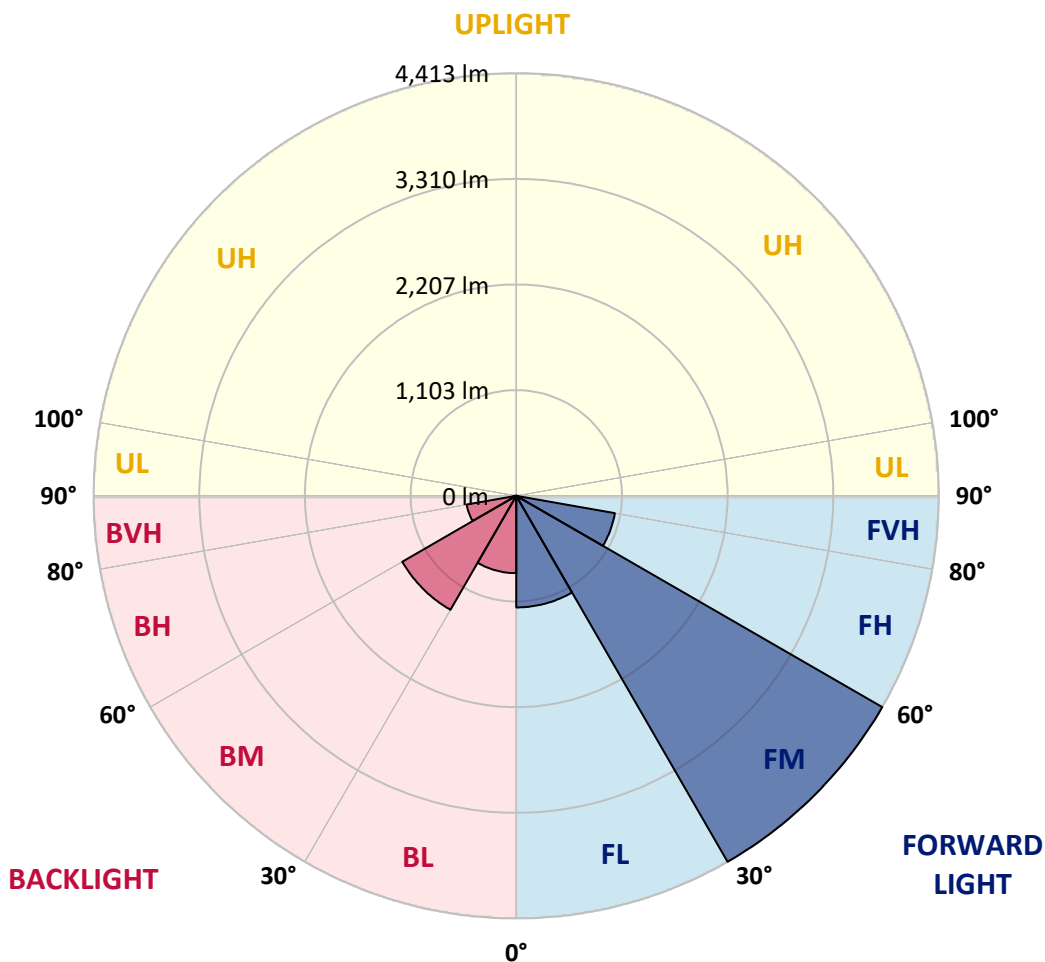


REPORT NUMBER: P646775
 CATALOG NUMBER: GALN-SA2C-835-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1165.7	12.4			
FM (30°-60°)	4413.4	47.0			
FH (60°-80°)	1045.6	11.1			G1/1800
FVH (80°-90°)	19.9	0.2			G1/100
BL (0°-30°)	807.6	8.6	B2/1000		
BM (30°-60°)	1375.0	14.7	B2/2500		
BH (60°-80°)	525.9	5.6	B2/1000		G2/1000
BVH (80°-90°)	29.7	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





REPORT NUMBER: P646775

CATALOG NUMBER: GALN-SA2C-835-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1
2.5°	3065.7	3039.1	3054.8	3048.8	3098.2	3112.6	3105.4	3111.4	3139.0	3125.8	3098.2
5°	2864.6	2902.0	2909.2	2927.2	2956.1	3012.7	3057.2	3069.3	3082.5	3143.9	3137.9
7.5°	2681.7	2707.0	2693.8	2746.7	2809.2	2900.8	2954.9	2964.5	3086.1	3119.8	3145.1
10°	2566.1	2540.8	2601.0	2615.5	2686.5	2791.2	2856.2	2895.9	3006.6	3140.3	3155.9
12.5°	2459.0	2450.6	2486.7	2527.6	2607.1	2715.4	2781.6	2797.3	2968.1	3109.0	3182.4
15°	2379.6	2370.0	2406.1	2436.1	2528.9	2625.1	2709.3	2753.9	2926.0	3090.9	3159.6
17.5°	2317.0	2315.8	2336.2	2390.4	2485.5	2566.1	2702.1	2704.6	2904.4	3118.6	3178.8
20°	2313.4	2312.2	2315.8	2375.9	2462.6	2561.3	2679.3	2701.0	2904.4	3099.3	3180.0
22.5°	2343.4	2324.2	2345.9	2384.4	2447.0	2569.7	2687.7	2735.9	2974.1	3194.4	3234.2
25°	2391.6	2396.4	2408.4	2421.7	2457.8	2589.0	2762.3	2802.0	3056.0	3276.3	3308.8
27.5°	2479.4	2477.1	2481.9	2489.1	2520.4	2607.1	2792.4	2894.8	3226.9	3421.9	3389.5
30°	2608.3	2599.9	2619.1	2644.3	2615.5	2664.9	2892.3	2969.4	3385.8	3568.8	3479.7
32.5°	2725.0	2756.3	2792.4	2803.2	2768.4	2778.0	3024.7	3103.0	3518.2	3749.3	3590.4
35°	2870.6	2895.9	2944.1	2977.7	2971.8	2942.9	3205.3	3308.8	3709.6	3881.7	3707.2
37.5°	3012.7	3042.8	3122.2	3222.1	3166.8	3153.5	3397.8	3483.3	3768.6	3952.7	3792.6
40°	3241.4	3240.2	3377.4	3429.1	3478.5	3455.6	3597.7	3626.5	3799.9	3937.1	3795.0
42.5°	3509.8	3493.0	3632.6	3713.2	3777.0	3779.4	3805.8	3796.2	3814.3	3857.6	3769.8
45°	3765.0	3801.1	3941.9	4086.3	4150.1	4157.3	3981.6	3963.5	3839.6	3834.7	3721.6
47.5°	4076.7	4085.1	4200.6	4390.8	4538.9	4488.3	4209.1	4169.4	3950.3	3987.7	3802.2
50°	4094.8	4157.3	4260.9	4484.7	4939.7	4926.5	4504.0	4429.4	4128.4	4204.3	4027.4
52.5°	3716.8	3702.3	3825.1	4191.0	4909.6	5362.1	4992.6	4814.5	4511.2	4453.5	4392.1
55°	2832.1	2865.9	2974.1	3343.7	4263.3	5368.2	5658.3	5512.6	4920.5	4821.7	4750.7
56°	2484.3	2489.1	2591.4	2928.4	3890.1	5176.8	5784.6	5666.7	5123.9	4973.4	4865.1
57.5°	2059.4	2031.7	2084.7	2268.8	3283.5	4772.4	5646.2	5761.8	5362.1	5137.1	4986.6
60°	1621.3	1615.3	1593.6	1627.3	2075.0	3595.2	4700.2	4960.1	5338.1	4983.0	4776.0
62.5°	1324.0	1293.9	1337.2	1385.4	1442.0	2230.3	3302.8	3455.6	4238.0	3978.0	3588.0
65°	1026.7	1012.3	1066.4	1222.9	1256.6	1416.7	1881.2	1999.2	2502.3	2457.8	2164.1
67.5°	706.5	708.9	755.9	994.2	1165.1	1150.7	1151.9	1213.3	1306.0	970.1	844.9
70°	447.7	446.5	471.8	640.3	937.6	947.3	899.1	881.0	835.3	505.5	535.7
72.5°	287.7	279.2	292.5	353.8	485.1	560.9	577.8	588.6	483.9	397.2	430.9
75°	162.5	154.1	149.2	164.9	191.4	221.4	243.1	250.3	280.5	300.9	319.0
77.5°	49.3	44.6	54.2	72.2	95.1	127.6	155.3	160.0	188.9	213.1	231.1
80°	21.7	24.0	33.7	48.2	67.4	90.3	109.5	116.7	136.0	154.1	158.9
82.5°	13.2	14.4	22.9	32.5	47.0	63.8	78.2	80.6	99.9	114.3	117.9
85°	4.8	6.0	12.1	19.3	30.1	41.0	41.0	44.6	41.0	41.0	44.6
87.5°	0.0	0.0	1.2	2.4	2.4	3.6	4.8	4.8	6.0	7.2	8.5
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: P646775

CATALOG NUMBER: GALN-SA2C-835-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1	3104.1
2.5°	3112.6	3106.6	3096.9	3062.0	3058.4	3047.6	2987.4	2977.7	2987.4	2958.5	2960.9
5°	3106.6	3124.6	3052.4	3017.5	2952.5	2905.6	2851.4	2823.7	2774.4	2743.1	2778.0
7.5°	3133.0	3125.8	3035.5	2959.7	2862.3	2743.1	2647.9	2593.8	2507.2	2483.1	2501.1
10°	3123.4	3084.9	2979.0	2879.1	2694.9	2590.2	2436.1	2286.9	2205.1	2163.0	2156.9
12.5°	3110.2	3099.3	2922.4	2750.3	2556.5	2336.2	2119.6	1978.8	1845.1	1787.4	1795.8
15°	3125.8	3034.4	2816.5	2598.6	2341.1	2052.2	1818.7	1636.9	1544.2	1507.0	1507.0
17.5°	3118.6	3003.0	2765.9	2428.9	2102.7	1760.9	1504.5	1395.0	1356.5	1356.5	1367.4
20°	3122.2	3023.6	2663.6	2259.2	1821.1	1482.8	1296.3	1256.6	1273.5	1279.4	1285.5
22.5°	3142.6	2956.1	2563.7	2072.7	1559.9	1268.6	1177.2	1178.3	1208.5	1241.0	1234.9
25°	3167.9	2929.7	2442.2	1887.3	1360.1	1163.9	1135.0	1131.4	1154.3	1171.1	1173.6
27.5°	3146.3	2883.9	2318.2	1656.2	1196.4	1094.1	1088.1	1090.5	1097.7	1131.4	1120.6
30°	3217.3	2897.1	2163.0	1462.4	1106.1	1071.2	1064.0	1060.4	1071.2	1080.9	1072.4
32.5°	3305.2	2850.2	2047.4	1275.8	1061.6	1054.4	1039.9	1035.1	1041.2	1031.5	1036.3
35°	3343.7	2841.7	1896.9	1142.2	1026.7	1020.6	1012.3	1011.1	1012.3	1003.8	996.6
37.5°	3365.3	2881.5	1724.8	1080.9	1005.1	1011.1	991.8	989.4	967.7	972.6	976.2
40°	3402.7	2820.1	1585.2	1021.9	991.8	979.8	962.9	959.3	944.8	936.4	944.8
42.5°	3348.5	2802.0	1448.0	996.6	972.6	959.3	947.3	926.8	922.0	914.8	909.9
45°	3305.2	2698.5	1325.2	965.3	949.7	942.4	919.6	897.9	879.9	887.1	876.3
47.5°	3337.7	2662.4	1203.6	938.8	918.4	909.9	887.1	870.2	852.1	843.8	841.3
50°	3467.7	2729.9	1101.3	919.6	891.9	887.1	857.0	837.7	820.9	814.9	817.3
52.5°	3778.2	2914.0	1031.5	879.9	866.6	844.9	828.1	804.1	793.2	773.9	786.0
55°	4171.7	3213.7	1013.4	842.5	835.3	816.0	793.2	775.2	754.7	739.0	735.4
56°	4298.2	3357.0	999.0	828.1	816.0	805.2	775.2	764.3	731.8	728.2	725.8
57.5°	4400.5	3483.3	1001.5	800.4	788.4	778.8	760.7	734.2	712.5	699.3	705.3
60°	4169.4	3260.6	955.7	758.3	755.9	737.8	712.5	700.6	674.0	658.4	654.7
62.5°	3099.3	2213.5	775.2	704.2	702.9	683.6	654.7	641.5	636.7	615.0	615.0
65°	1785.0	1387.8	670.4	659.6	650.0	630.7	601.8	591.0	579.0	571.7	565.7
67.5°	761.9	719.7	609.0	607.8	597.0	572.9	544.0	527.2	511.5	497.1	504.3
70°	552.5	560.9	550.1	544.0	530.8	500.7	475.4	455.0	430.9	421.3	428.5
72.5°	438.1	456.2	471.8	473.0	457.4	422.5	394.8	367.1	340.6	327.4	333.4
75°	332.2	344.2	359.9	363.5	340.6	316.6	290.1	261.2	240.7	225.1	227.5
77.5°	239.5	237.1	251.6	249.2	238.3	221.4	197.4	170.9	148.1	133.6	134.8
80°	163.7	167.3	175.7	174.5	161.3	150.5	132.4	110.7	93.9	81.8	79.5
82.5°	114.3	120.3	127.6	121.6	110.7	99.9	86.7	71.0	57.8	48.2	45.7
85°	41.0	47.0	54.2	57.8	61.4	59.0	49.3	39.7	28.9	24.0	22.9
87.5°	8.5	9.6	10.8	10.8	10.8	9.6	8.5	8.5	7.2	3.6	3.6
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)