

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: P458696

Luminaire Tested: **GALN-SA2C-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13054 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

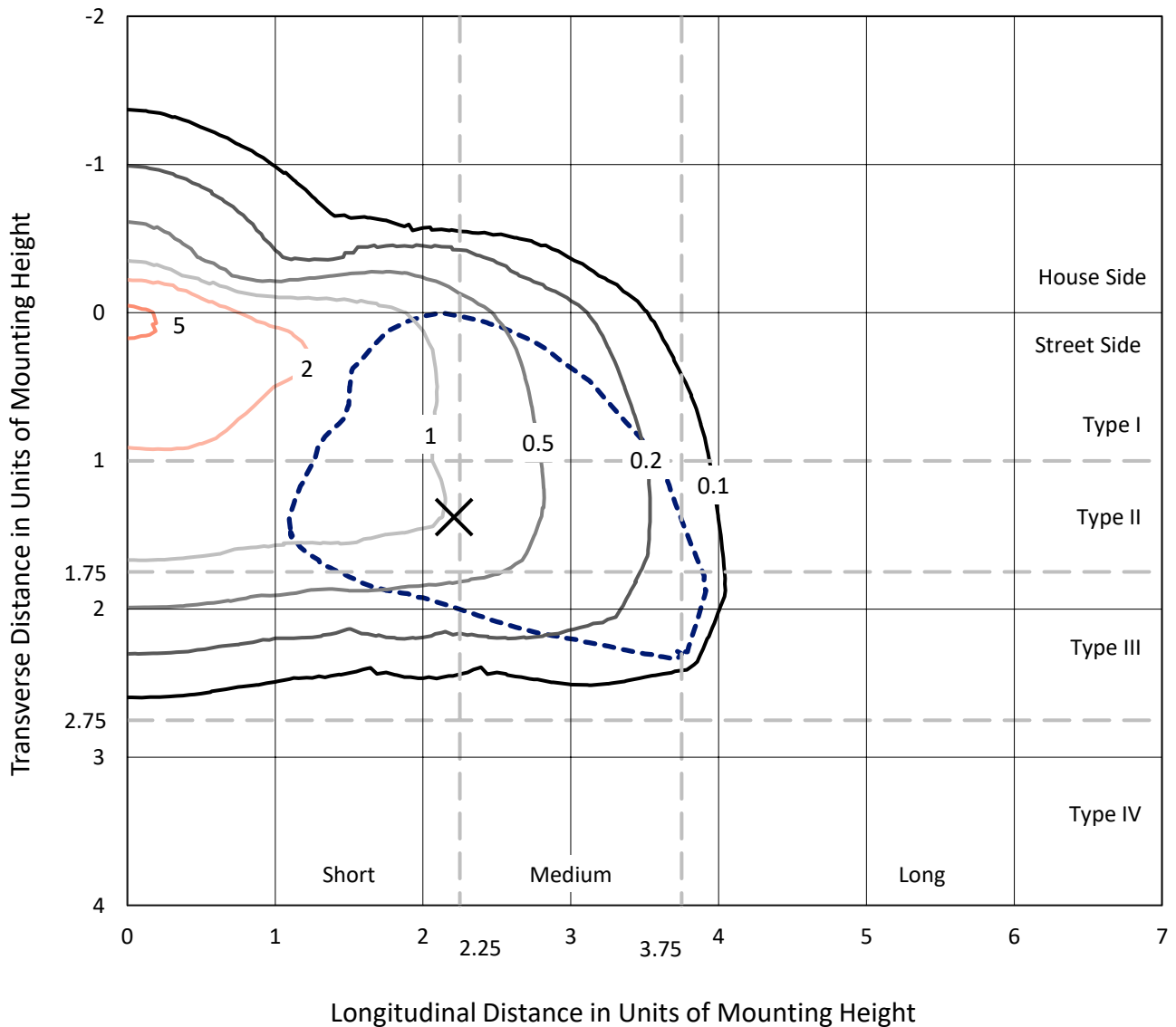
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

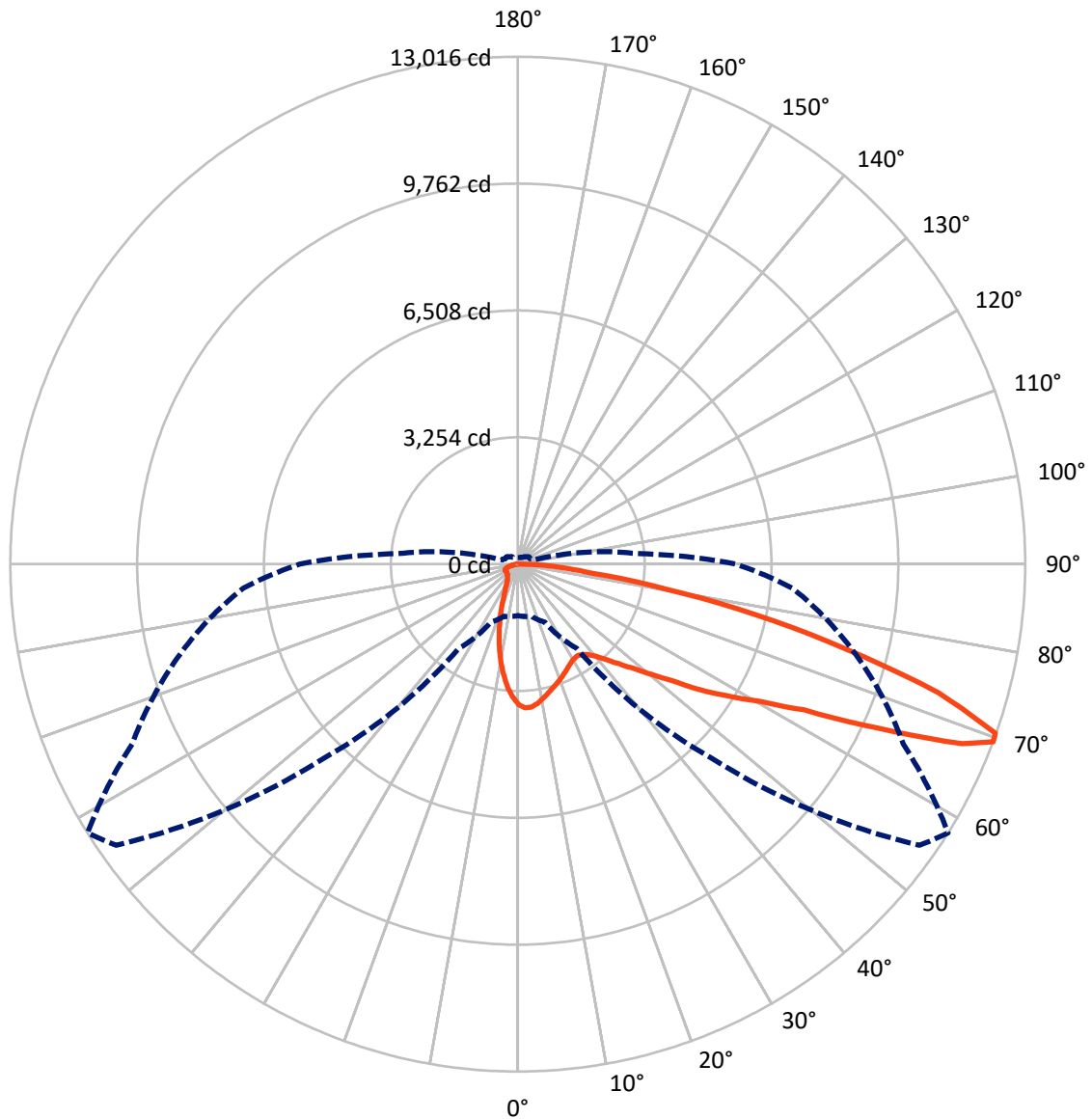
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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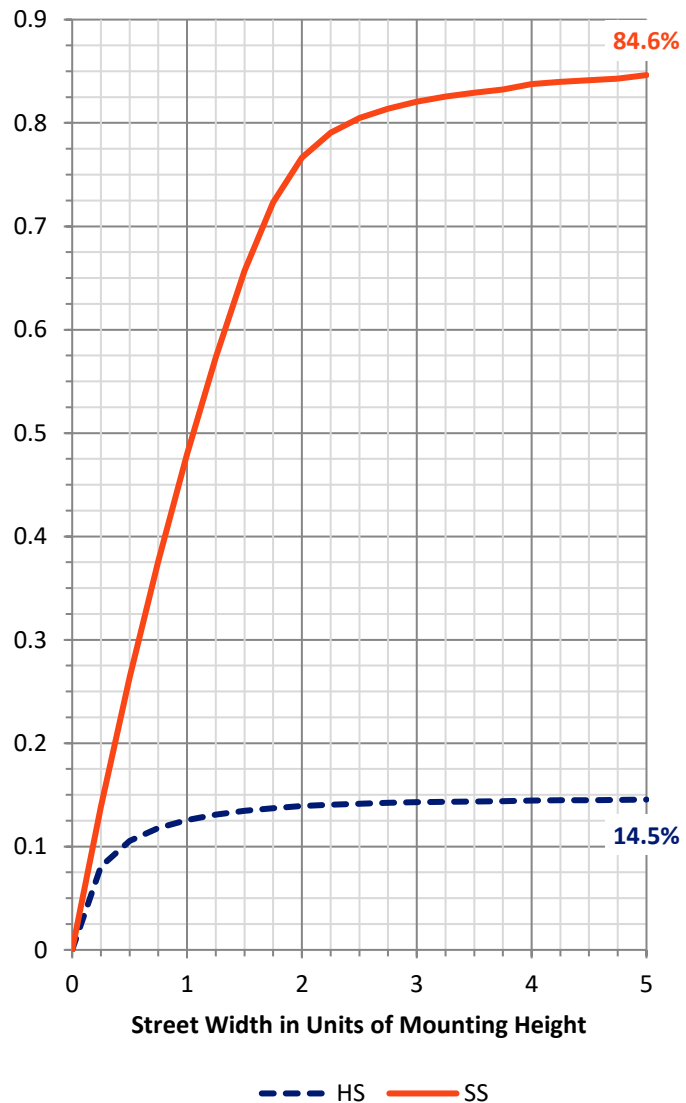
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1913.1	0.0	1913.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	11140.9	0.0	11140.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	13054.0	0.0	13054.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.4	2.3
10°-20°	672.7	5.2
20°-30°	869.1	6.7
30°-40°	1128.8	8.6
40°-50°	1641.2	12.6
50°-60°	2618.8	20.1
60°-70°	3498.3	26.8
70°-80°	2016.7	15.4
80°-90°	302.1	2.3
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°	13054.0	100.0
0°-180°	13054.0	100.0



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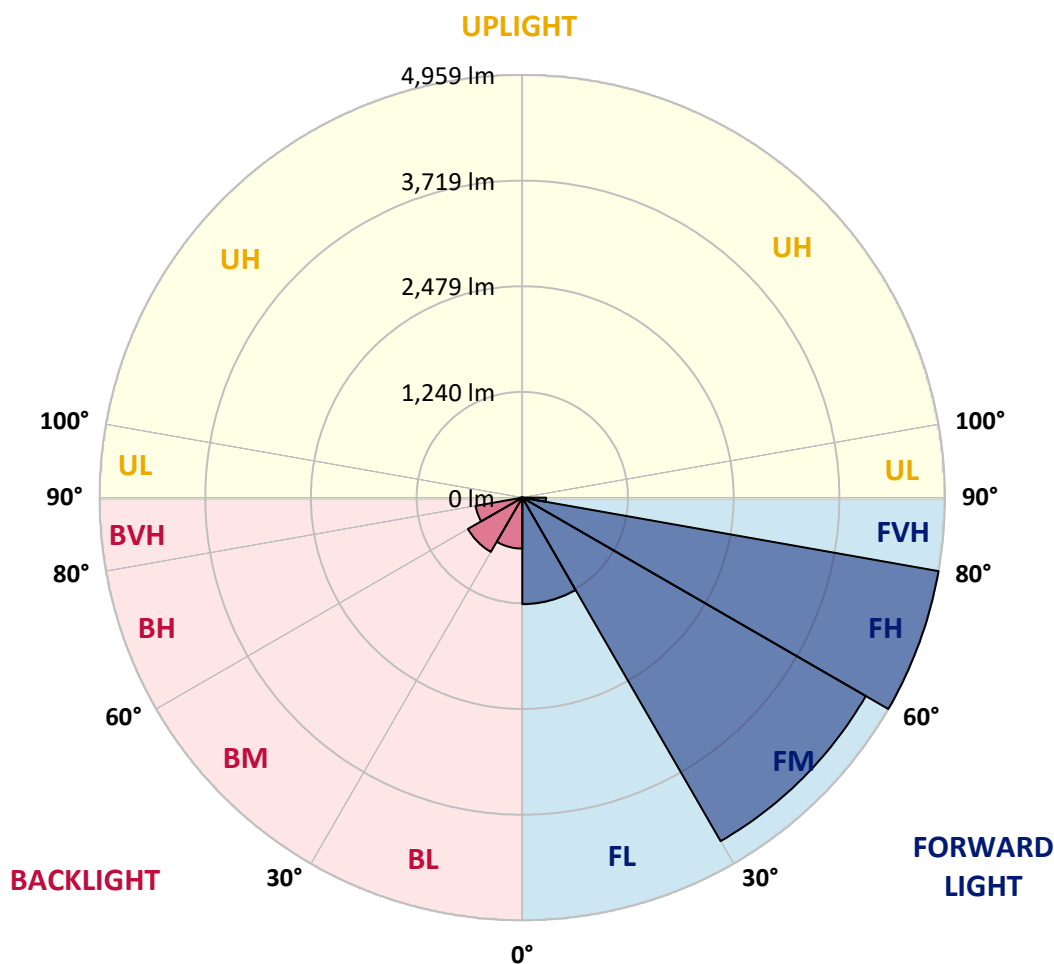
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1250.2	9.6			
FM	(30°-60°)	4653.1	35.6			
FH	(60°-80°)	4958.7	38.0			G2/5000
FVH	(80°-90°)	278.9	2.1			G3/500
BL	(0°-30°)	597.9	4.6	B2/1000		
BM	(30°-60°)	735.7	5.6	B1/1000		
BH	(60°-80°)	556.3	4.3	B2/1000		G2/1000
BVH	(80°-90°)	23.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4
2.5°	3741.3	3751.5	3748.6	3745.0	3739.1	3723.1	3696.9	3692.5	3675.8	3640.1	3595.7
5°	3683.8	3692.5	3693.3	3698.4	3705.6	3702.7	3683.8	3681.6	3656.9	3608.8	3534.6
7.5°	3486.5	3498.2	3523.6	3552.0	3577.5	3601.5	3607.4	3611.0	3595.7	3540.4	3441.4
10°	3264.5	3276.1	3287.8	3330.0	3392.6	3452.3	3501.8	3508.4	3512.0	3461.0	3340.2
12.5°	3018.4	3042.4	3067.2	3129.8	3213.5	3307.4	3394.8	3408.6	3433.4	3394.8	3252.8
15°	2809.4	2834.2	2869.9	2925.9	3027.1	3162.5	3285.6	3308.1	3356.9	3337.3	3171.3
17.5°	2664.6	2673.3	2698.1	2762.1	2871.3	3014.0	3178.6	3223.7	3301.6	3296.5	3101.4
20°	2550.3	2561.2	2576.5	2615.8	2729.4	2880.1	3078.8	3137.1	3242.6	3260.1	3032.2
22.5°	2502.2	2510.2	2508.0	2529.2	2606.3	2757.8	2977.6	3046.8	3190.2	3235.3	2968.2
25°	2505.1	2512.4	2501.5	2496.4	2542.3	2650.0	2872.1	2960.1	3148.0	3218.6	2909.9
27.5°	2553.9	2559.0	2538.6	2518.2	2521.9	2583.0	2784.7	2882.2	3112.3	3225.9	2861.1
30°	2619.4	2628.9	2615.8	2591.0	2564.1	2567.0	2728.6	2824.7	3095.6	3251.4	2837.8
32.5°	2703.9	2712.6	2706.8	2687.1	2652.2	2613.6	2714.8	2803.6	3097.0	3303.0	2832.7
35°	2792.7	2810.2	2819.6	2818.2	2789.8	2722.8	2769.4	2842.9	3132.0	3389.7	2862.6
37.5°	2893.2	2907.7	2948.5	2974.7	2948.5	2870.6	2892.4	2943.4	3209.1	3514.9	2928.1
40°	2990.7	3012.6	3072.3	3153.8	3143.6	3075.2	3080.3	3113.8	3345.3	3701.3	3056.2
42.5°	3092.6	3118.9	3223.0	3343.8	3367.8	3314.7	3328.5	3358.4	3538.9	3959.7	3276.1
45°	3223.7	3255.0	3383.1	3533.8	3628.5	3595.7	3635.0	3649.6	3798.1	4296.1	3565.9
47.5°	3392.6	3429.0	3587.0	3774.8	3908.8	3938.6	4007.0	3998.3	4119.2	4694.3	3941.5
50°	3677.3	3697.6	3846.9	4038.4	4222.5	4357.2	4431.5	4445.3	4517.4	5081.6	4361.6
52.5°	4015.8	4034.0	4141.7	4309.2	4540.0	4825.3	5008.8	4963.7	4981.1	5553.4	4853.0
55°	4396.5	4427.1	4495.6	4606.9	4906.2	5326.2	5694.6	5705.5	5511.9	6004.7	5324.0
57.5°	4691.4	4743.1	4860.3	5019.0	5398.3	5883.2	6378.2	6385.5	6138.0	6486.7	5843.9
60°	4542.9	4604.0	4871.9	5258.5	6044.1	6855.1	7195.1	7153.6	6747.3	7035.6	6478.0
62.5°	3902.2	3913.1	4302.6	4906.9	6242.8	8155.3	8410.9	8235.4	7560.5	7731.6	7122.3
65°	2525.5	2596.9	2905.5	3752.2	5589.8	8876.8	10541.1	10135.6	8700.6	8521.5	7661.7
67.5°	1594.4	1576.2	1704.3	2142.6	3844.7	8241.2	12358.9	12294.9	10191.6	9020.2	7532.9
69°	1322.1	1342.5	1386.2	1642.4	2645.6	7036.4	12573.7	13016.3	10914.5	8980.9	7064.7
70°	1199.1	1208.5	1254.4	1456.0	2041.4	5893.4	12221.3	12996.7	11198.5	8816.4	6725.5
72.5°	951.5	950.8	1029.4	1211.4	1525.9	3364.2	10035.1	11283.7	10881.1	8050.5	5557.0
75°	722.9	734.6	821.2	1025.1	1405.8	1838.3	7002.9	8689.7	8690.4	6358.6	3467.6
77.5°	521.3	528.5	629.7	860.5	1324.3	1490.3	4664.5	6232.6	5859.1	2913.6	1089.9
80°	341.4	345.8	423.0	681.4	1194.0	1405.8	2765.8	3814.8	2763.6	773.2	360.4
82.5°	187.1	208.9	258.4	441.2	958.1	1298.8	1681.0	1930.7	1036.7	344.4	187.8
85°	93.9	99.7	145.6	257.7	626.1	1074.6	1170.7	1107.3	535.1	171.1	97.6
87.5°	27.7	34.9	60.4	99.7	254.1	559.9	651.6	584.6	206.0	61.9	20.4
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°	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4
2.5°	3577.5	3564.4	3506.2	3453.7	3405.7	3354.7	3311.8	3273.9	3277.6	3278.3	3239.7
5°	3496.0	3466.1	3355.5	3252.1	3164.7	3054.1	2959.4	2898.3	2867.7	2826.9	2841.5
7.5°	3385.3	3327.8	3174.2	3002.4	2841.5	2698.1	2542.3	2435.2	2366.8	2300.6	2309.3
10°	3271.0	3178.6	2955.1	2727.9	2519.7	2290.4	2091.6	1921.3	1794.6	1747.3	1716.0
12.5°	3153.8	3032.2	2748.3	2446.2	2158.6	1884.1	1602.4	1419.6	1279.9	1205.6	1215.1
15°	3046.8	2899.0	2532.8	2164.4	1790.9	1464.1	1183.0	1009.0	911.5	891.1	902.8
17.5°	2947.8	2754.1	2331.1	1890.7	1454.6	1097.9	888.9	790.6	751.3	740.4	739.7
20°	2845.8	2631.1	2104.7	1598.0	1133.5	851.1	729.5	683.6	676.3	680.7	681.4
22.5°	2742.5	2478.9	1871.8	1307.5	902.8	696.0	637.7	625.4	631.2	641.4	642.8
25°	2647.1	2345.0	1647.5	1052.7	720.7	611.5	583.1	583.1	596.3	611.5	612.3
27.5°	2568.5	2215.4	1424.0	835.8	603.5	550.4	540.9	546.0	564.2	575.9	576.6
30°	2503.7	2094.5	1212.9	669.8	530.7	501.6	499.4	508.2	521.3	532.2	532.9
32.5°	2454.9	1988.2	1015.6	562.8	480.5	464.5	463.8	470.3	477.6	480.5	483.4
35°	2436.0	1900.1	835.0	495.1	447.0	436.8	436.8	436.1	439.0	440.5	441.9
37.5°	2451.3	1832.4	695.3	451.4	422.3	415.0	410.6	406.2	404.8	404.8	405.5
40°	2516.1	1796.8	591.2	423.0	404.8	393.9	385.9	380.8	375.7	377.1	378.6
42.5°	2653.6	1803.3	520.5	404.1	389.5	374.2	362.6	356.7	353.1	357.5	356.7
45°	2872.8	1868.8	475.4	390.9	374.2	354.5	343.6	337.8	337.8	344.4	346.5
47.5°	3179.3	1994.1	451.4	380.8	362.6	339.3	328.3	324.0	325.4	336.3	337.1
50°	3553.5	2211.7	447.0	375.7	356.7	328.3	316.0	311.6	315.2	326.9	328.3
52.5°	3966.3	2492.0	468.1	376.4	351.6	321.8	305.8	299.2	302.9	312.3	315.2
55°	4455.5	2842.9	522.7	379.3	344.4	318.1	298.5	283.9	288.3	294.8	295.6
57.5°	4954.9	3285.6	618.8	380.0	338.5	311.6	286.1	267.2	267.2	271.6	273.7
60°	5565.0	3767.5	745.5	380.8	339.3	302.1	269.4	248.3	245.3	247.5	248.3
62.5°	6170.7	4170.9	766.6	378.6	346.5	292.7	251.2	229.3	224.2	223.5	222.0
65°	6437.9	4095.9	628.3	368.4	354.5	286.8	236.6	211.1	202.4	199.5	199.5
67.5°	6002.6	3464.7	472.5	354.5	349.5	281.0	222.8	195.8	185.6	179.8	179.8
69°	5593.4	3081.7	424.4	345.1	336.3	271.6	214.0	187.8	175.5	168.9	166.7
70°	5277.4	2818.2	404.1	337.1	324.0	260.6	207.5	182.0	168.2	160.9	159.4
72.5°	4211.6	2211.0	353.8	306.5	275.9	219.1	184.2	163.8	150.7	142.7	140.5
75°	2427.2	1198.3	293.4	266.5	222.0	170.4	155.8	142.7	132.5	125.2	123.0
77.5°	747.0	463.0	212.6	210.4	163.1	131.8	124.5	119.4	112.1	104.1	102.7
80°	314.5	235.9	144.1	142.0	108.5	91.7	89.5	88.8	85.9	79.4	77.2
82.5°	172.5	133.2	100.5	87.4	65.5	53.1	55.3	56.1	53.9	47.3	43.0
85°	84.5	72.8	48.8	39.3	29.8	18.9	18.2	21.8	20.4	14.6	16.0
87.5°	16.7	20.4	13.1	5.8	2.9	0.0	0.0	0.0	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)