

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: P451649

Luminaire Tested: **GALN-SA2C-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451649
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-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 14013 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

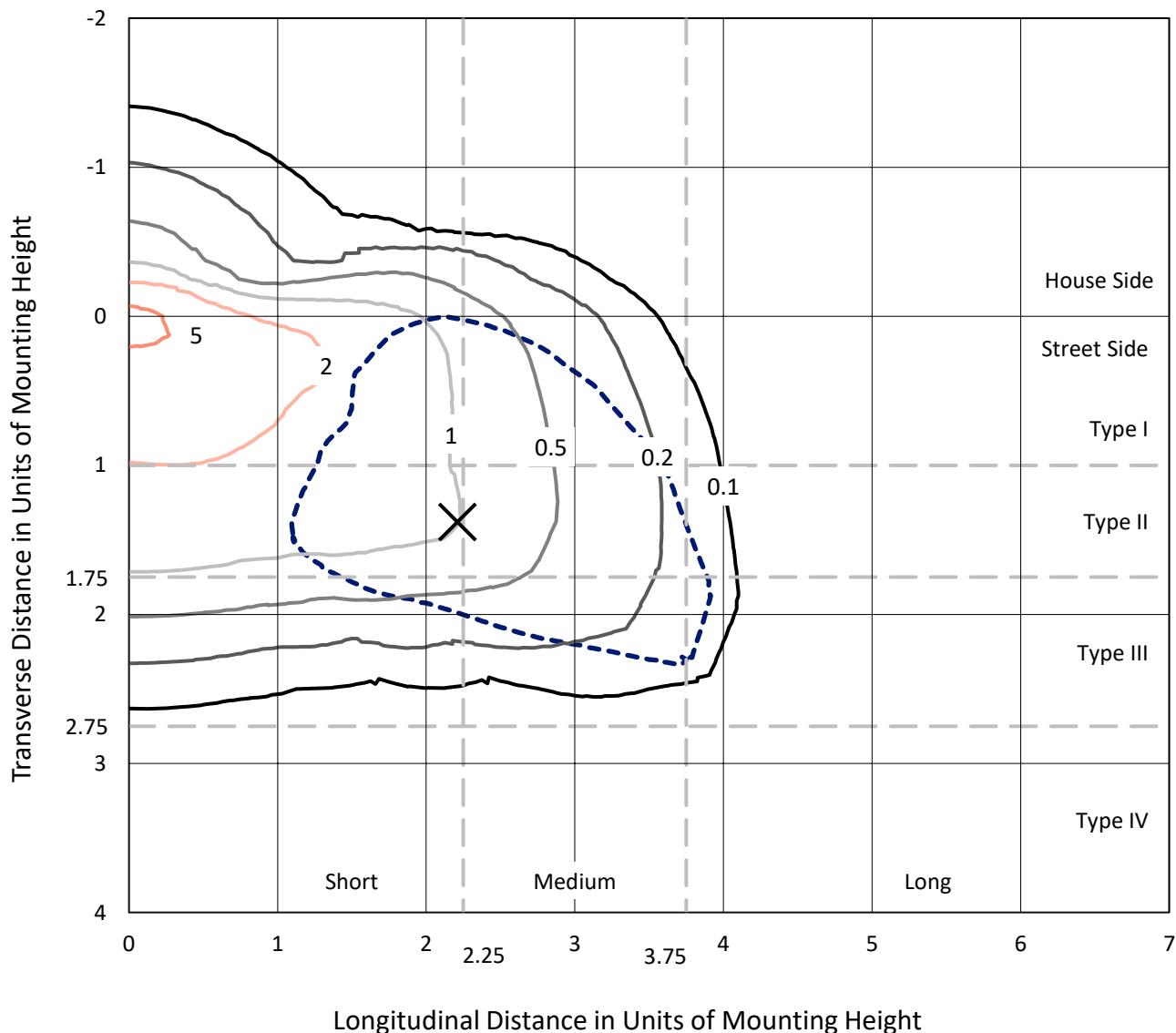
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

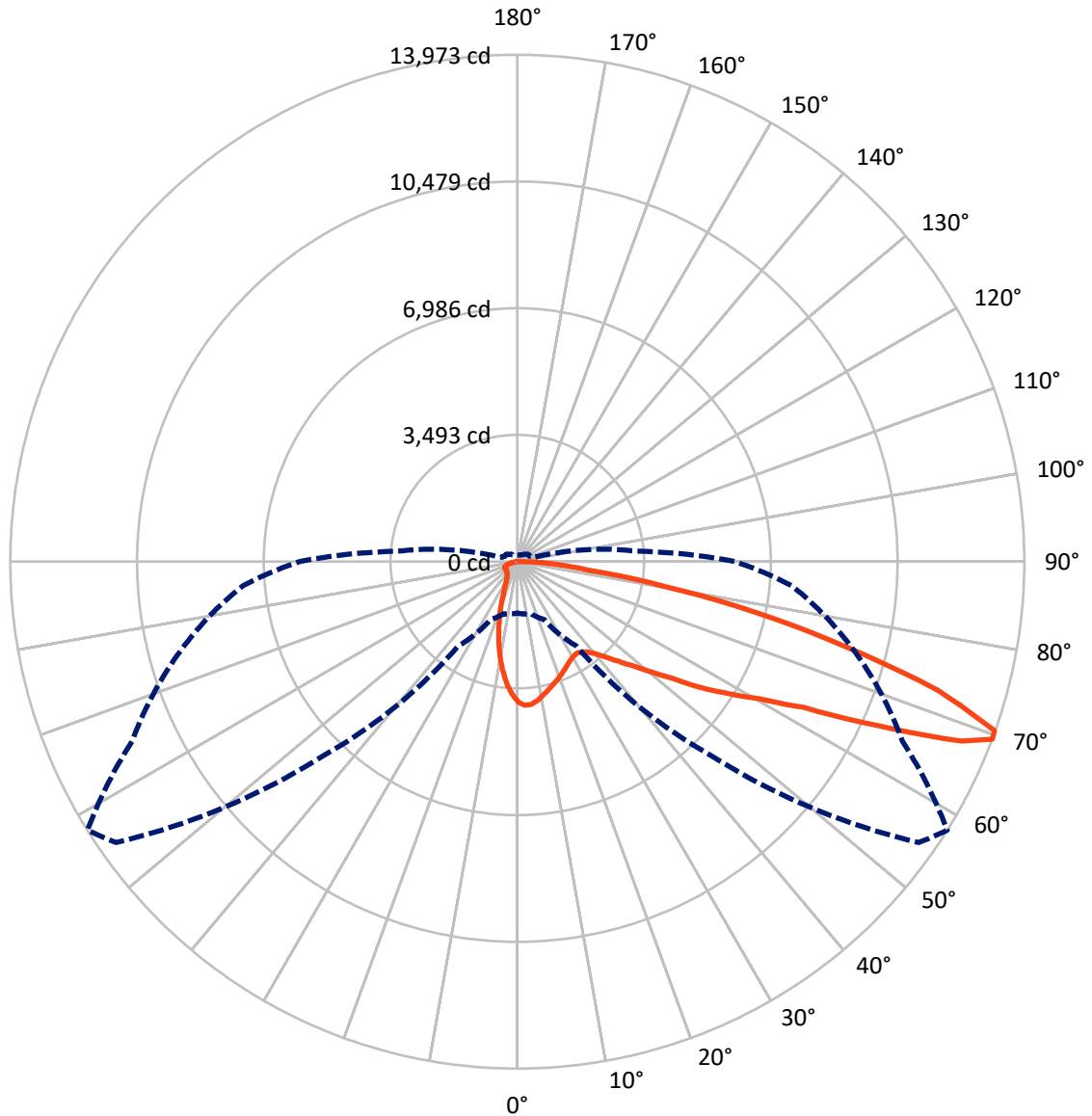
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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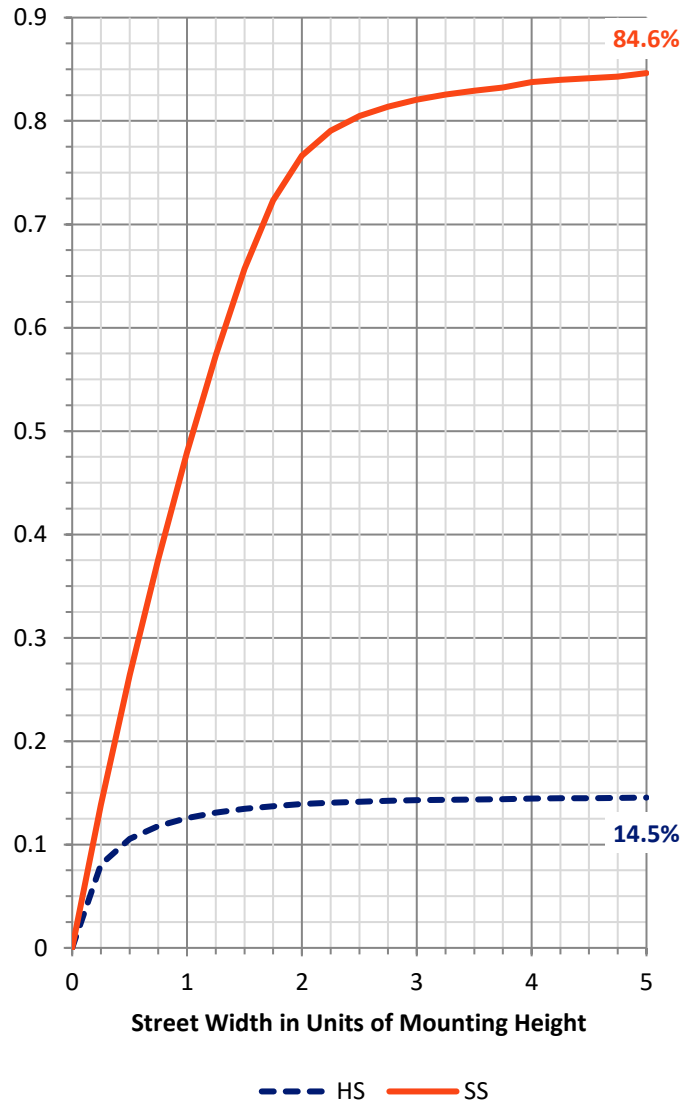
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2053.6	0.0	2053.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	11959.4	0.0	11959.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	14013.0	0.0	14013.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.9	2.3
10°-20°	722.1	5.2
20°-30°	933.0	6.7
30°-40°	1211.8	8.6
40°-50°	1761.7	12.6
50°-60°	2811.1	20.1
60°-70°	3755.3	26.8
70°-80°	2164.8	15.4
80°-90°	324.2	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°	14013.0	100.0
0°-180°	14013.0	100.0



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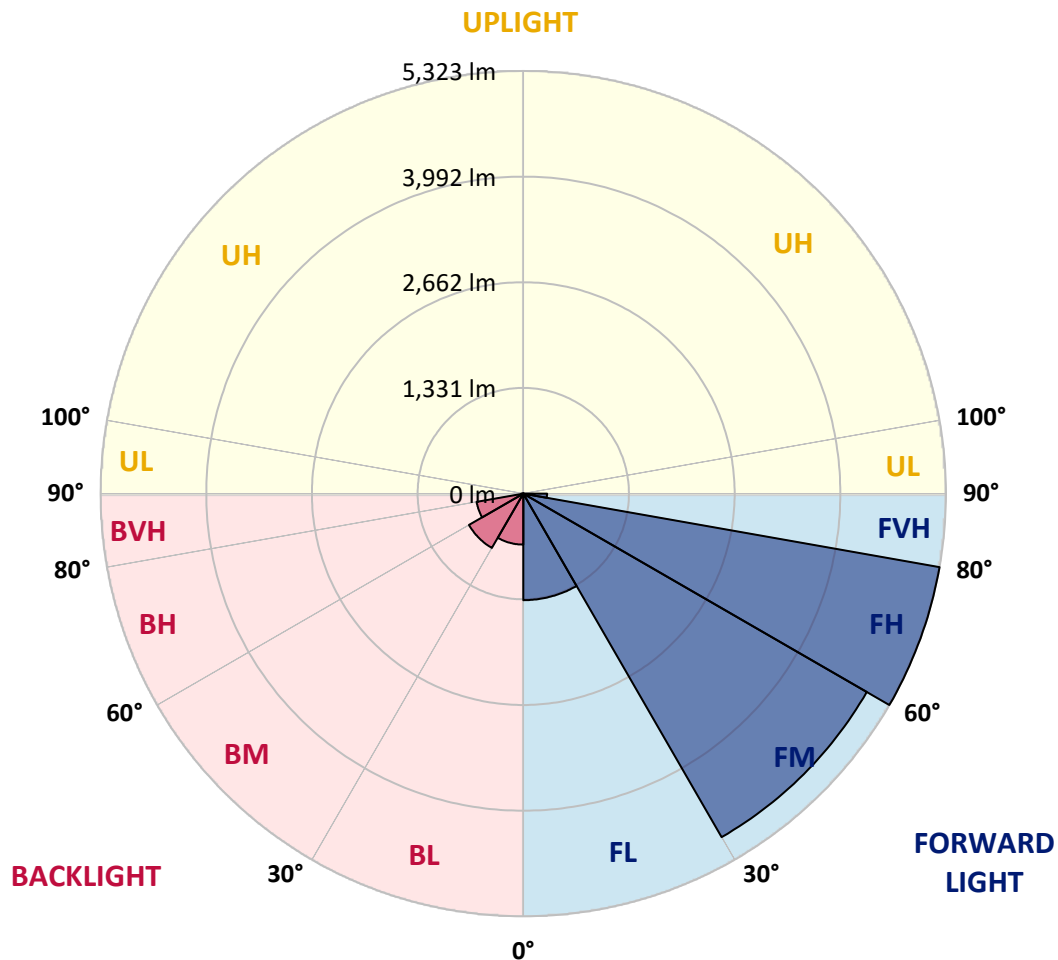
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1342.1	9.6			
FM (30°-60°)	4994.9	35.6			
FH (60°-80°)	5323.0	38.0			G3/7500
FVH (80°-90°)	299.4	2.1			G3/500
BL (0°-30°)	641.9	4.6	B2/1000		
BM (30°-60°)	789.7	5.6	B1/1000		
BH (60°-80°)	597.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	24.8	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°	3872.4	3872.4	3872.4	3872.4	3872.4	3872.4	3872.4	3872.4	3872.4	3872.4	3872.4
2.5°	4016.2	4027.1	4024.0	4020.1	4013.8	3996.6	3968.5	3963.8	3945.8	3907.5	3859.9
5°	3954.4	3963.8	3964.6	3970.1	3977.9	3974.8	3954.4	3952.1	3925.5	3873.9	3794.2
7.5°	3742.6	3755.1	3782.5	3813.0	3840.3	3866.1	3872.4	3876.3	3859.9	3800.5	3694.2
10°	3504.3	3516.8	3529.3	3574.6	3641.8	3705.9	3759.1	3766.1	3770.0	3715.3	3585.6
12.5°	3240.1	3265.9	3292.5	3359.7	3449.6	3550.4	3644.2	3659.0	3685.6	3644.2	3491.8
15°	3015.8	3042.4	3080.7	3140.9	3249.5	3394.9	3526.9	3551.2	3603.5	3582.4	3404.2
17.5°	2860.3	2869.7	2896.3	2965.0	3082.3	3235.4	3412.1	3460.5	3544.1	3538.7	3329.2
20°	2737.6	2749.3	2765.8	2808.0	2929.9	3091.6	3305.0	3367.5	3480.8	3499.6	3255.0
22.5°	2686.0	2694.6	2692.3	2715.0	2797.8	2960.4	3196.4	3270.6	3424.6	3473.0	3186.2
25°	2689.2	2697.0	2685.3	2679.8	2729.0	2844.7	3083.0	3177.6	3379.2	3455.0	3123.7
27.5°	2741.5	2747.0	2725.1	2703.2	2707.1	2772.8	2989.3	3094.0	3340.9	3462.9	3071.3
30°	2811.9	2822.0	2808.0	2781.4	2752.5	2755.6	2929.1	3032.3	3323.0	3490.2	3046.3
32.5°	2902.5	2911.9	2905.6	2884.5	2847.0	2805.6	2914.2	3009.6	3324.5	3545.7	3040.8
35°	2997.9	3016.6	3026.8	3025.2	2994.7	2922.8	2972.9	3051.8	3362.0	3638.7	3072.9
37.5°	3105.7	3121.3	3165.1	3193.2	3165.1	3081.5	3104.9	3159.6	3444.9	3773.1	3143.2
40°	3210.4	3233.9	3298.0	3385.5	3374.6	3301.1	3306.6	3342.5	3591.0	3973.2	3280.8
42.5°	3319.8	3348.0	3459.7	3589.5	3615.3	3558.2	3573.1	3605.1	3798.9	4250.6	3516.8
45°	3460.5	3494.1	3631.7	3793.4	3895.0	3859.9	3902.1	3917.7	4077.1	4611.7	3827.8
47.5°	3641.8	3680.9	3850.5	4052.1	4195.9	4228.0	4301.4	4292.0	4421.8	5039.2	4231.1
50°	3947.4	3969.3	4129.5	4335.0	4532.7	4677.3	4757.0	4771.9	4849.3	5454.9	4682.0
52.5°	4310.8	4330.3	4446.0	4625.7	4873.5	5179.8	5376.8	5328.3	5347.1	5961.3	5209.5
55°	4719.5	4752.4	4825.8	4945.4	5266.6	5717.5	6113.0	6124.7	5916.8	6445.9	5715.2
57.5°	5036.0	5091.5	5217.3	5387.7	5794.9	6315.4	6846.8	6854.6	6588.9	6963.2	6273.2
60°	4876.6	4942.3	5229.9	5644.8	6488.1	7358.7	7723.6	7679.1	7243.0	7552.5	6953.9
62.5°	4188.9	4200.6	4618.7	5267.4	6701.4	8754.5	9028.8	8840.4	8116.0	8299.6	7645.5
65°	2711.1	2787.6	3119.0	4027.9	6000.4	9528.9	11315.5	10880.2	9339.8	9147.6	8224.6
67.5°	1711.5	1692.0	1829.5	2300.0	4127.1	8846.7	13266.9	13198.1	10940.3	9682.9	8086.3
69°	1419.2	1441.1	1488.0	1763.1	2840.0	7553.3	13497.4	13972.6	11716.4	9640.7	7583.8
70°	1287.1	1297.3	1346.5	1563.0	2191.3	6326.3	13119.2	13951.5	12021.2	9464.1	7219.6
72.5°	1021.4	1020.6	1105.1	1300.4	1638.0	3611.3	10772.3	12112.6	11680.4	8641.9	5965.3
75°	776.0	788.5	881.5	1100.4	1509.1	1973.3	7517.3	9328.1	9328.9	6825.7	3722.3
77.5°	559.6	567.4	676.0	923.7	1421.6	1599.7	5007.1	6690.5	6289.6	3127.6	1169.9
80°	366.5	371.2	454.1	731.5	1281.7	1509.1	2968.9	4095.1	2966.6	830.0	386.8
82.5°	200.8	224.3	277.4	473.6	1028.5	1394.2	1804.5	2072.6	1112.9	369.7	201.6
85°	100.8	107.1	156.3	276.7	672.1	1153.5	1256.7	1188.7	574.4	183.7	104.7
87.5°	29.7	37.5	64.9	107.1	272.7	601.0	699.4	627.6	221.2	66.4	21.9
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°	3872.4	3872.4	3872.4	3872.4	3872.4	3872.4	3872.4	3872.4	3872.4	3872.4	3872.4
2.5°	3840.3	3826.3	3763.7	3707.5	3655.9	3601.2	3555.1	3514.4	3518.3	3519.1	3477.7
5°	3752.8	3720.8	3602.0	3491.0	3397.2	3278.4	3176.8	3111.2	3078.4	3034.6	3050.2
7.5°	3634.0	3572.3	3407.4	3222.9	3050.2	2896.3	2729.0	2614.1	2540.7	2469.6	2478.9
10°	3511.3	3412.1	3172.1	2928.3	2704.8	2458.6	2245.3	2062.4	1926.4	1875.6	1842.0
12.5°	3385.5	3255.0	2950.2	2625.9	2317.2	2022.5	1720.1	1523.9	1373.9	1294.2	1304.3
15°	3270.6	3112.0	2718.9	2323.4	1922.5	1571.6	1270.0	1083.2	978.4	956.6	969.1
17.5°	3164.3	2956.4	2502.4	2029.6	1561.5	1178.5	954.2	848.7	806.5	794.8	794.0
20°	3054.9	2824.4	2259.3	1715.4	1216.8	913.6	783.1	733.8	726.0	730.7	731.5
22.5°	2943.9	2661.0	2009.3	1403.6	969.1	747.1	684.6	671.3	677.6	688.5	690.1
25°	2841.6	2517.2	1768.6	1130.1	773.7	656.5	626.0	626.0	640.1	656.5	657.2
27.5°	2757.2	2378.1	1528.6	897.2	647.9	590.8	580.7	586.1	605.7	618.2	619.0
30°	2687.6	2248.4	1302.0	719.0	569.7	538.5	536.1	545.5	559.6	571.3	572.1
32.5°	2635.2	2134.3	1090.2	604.1	515.8	498.6	497.8	504.9	512.7	515.8	518.9
35°	2614.9	2039.7	896.4	531.4	479.8	468.9	468.9	468.1	471.2	472.8	474.4
37.5°	2631.3	1967.1	746.3	484.5	453.3	445.5	440.8	436.1	434.5	434.5	435.3
40°	2700.9	1928.8	634.6	454.1	434.5	422.8	414.2	408.7	403.3	404.8	406.4
42.5°	2848.6	1935.8	558.8	433.7	418.1	401.7	389.2	382.9	379.0	383.7	382.9
45°	3083.8	2006.1	510.3	419.7	401.7	380.6	368.9	362.6	362.6	369.7	372.0
47.5°	3412.8	2140.6	484.5	408.7	389.2	364.2	352.5	347.8	349.3	361.1	361.8
50°	3814.5	2374.2	479.8	403.3	382.9	352.5	339.2	334.5	338.4	350.9	352.5
52.5°	4257.7	2675.1	502.5	404.0	377.5	345.4	328.2	321.2	325.1	335.3	338.4
55°	4782.8	3051.8	561.1	407.2	369.7	341.5	320.4	304.8	309.5	316.5	317.3
57.5°	5318.9	3526.9	664.3	407.9	363.4	334.5	307.1	286.8	286.8	291.5	293.8
60°	5973.8	4044.3	800.3	408.7	364.2	324.3	289.2	266.5	263.4	265.7	266.5
62.5°	6624.1	4477.3	822.9	406.4	372.0	314.2	269.6	246.2	240.7	239.9	238.4
65°	6910.9	4396.8	674.4	395.4	380.6	307.9	254.0	226.6	217.3	214.1	214.1
67.5°	6443.5	3719.2	507.2	380.6	375.1	301.7	239.1	210.2	199.3	193.0	193.0
69°	6004.3	3308.1	455.6	370.4	361.1	291.5	229.8	201.6	188.3	181.3	179.0
70°	5665.2	3025.2	433.7	361.8	347.8	279.8	222.7	195.4	180.5	172.7	171.2
72.5°	4521.0	2373.4	379.8	329.0	296.2	235.2	197.7	175.8	161.8	153.2	150.8
75°	2605.5	1286.4	314.9	286.0	238.4	182.9	167.2	153.2	142.2	134.4	132.1
77.5°	801.8	497.0	228.2	225.9	175.1	141.5	133.6	128.2	120.4	111.8	110.2
80°	337.6	253.2	154.7	152.4	116.4	98.5	96.1	95.3	92.2	85.2	82.8
82.5°	185.2	143.0	107.8	93.8	70.3	57.1	59.4	60.2	57.8	50.8	46.1
85°	90.7	78.2	52.4	42.2	32.0	20.3	19.5	23.4	21.9	15.6	17.2
87.5°	18.0	21.9	14.1	6.3	3.1	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)