

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: P527636

Luminaire Tested: **GALN-SA2C-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9504 lumens
Efficiency: N/A
Efficacy: 88.0 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

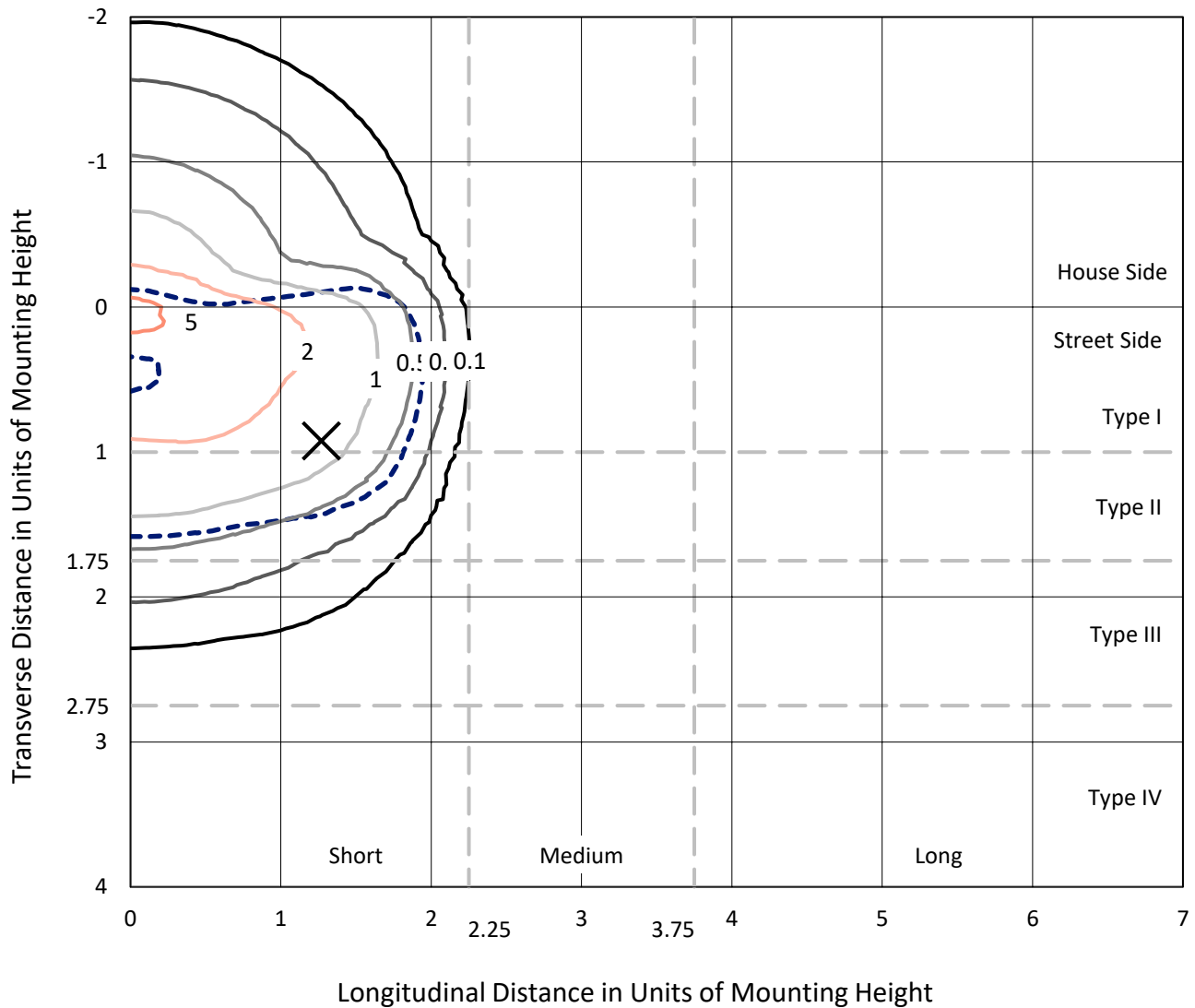


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

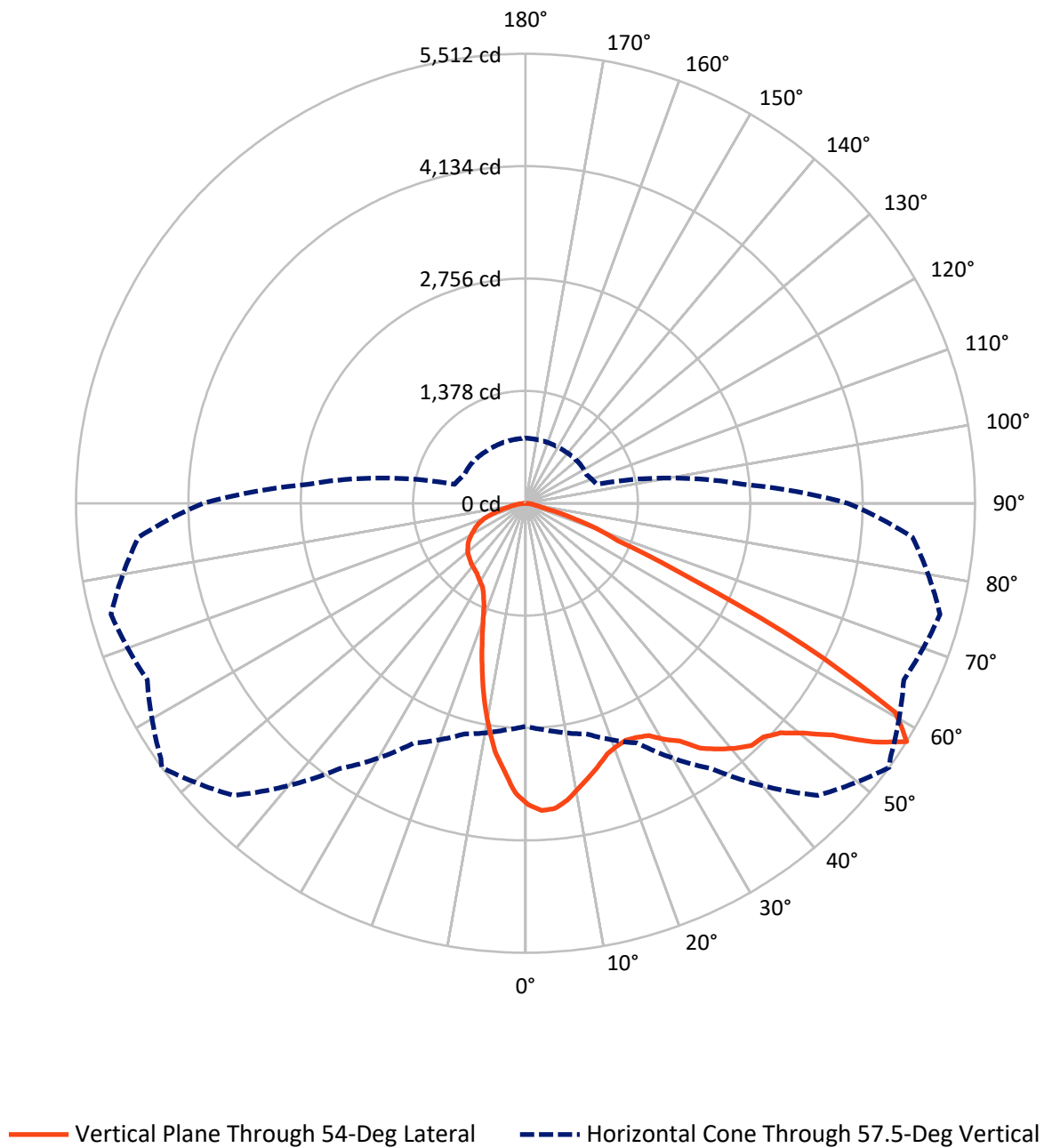


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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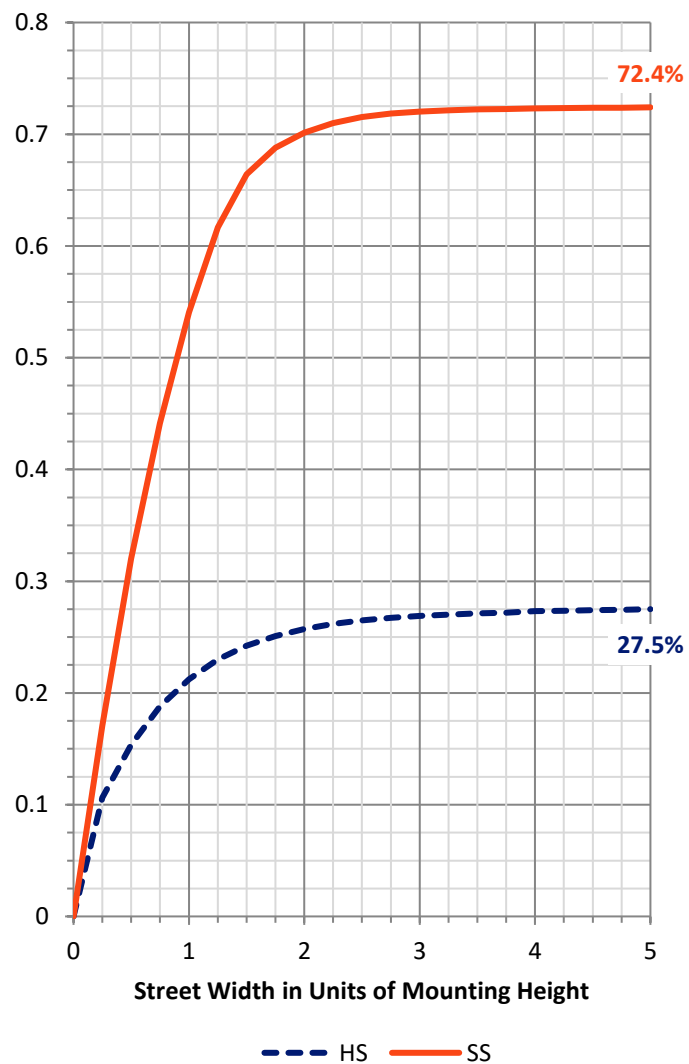
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2629.3	0.0	2629.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	6874.7	0.0	6874.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	9504.0	0.0	9504.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.6	3.4
10°-20°	737.6	7.8
20°-30°	1036.4	10.9
30°-40°	1448.9	15.2
40°-50°	1961.5	20.6
50°-60°	2389.2	25.1
60°-70°	1244.4	13.1
70°-80°	318.9	3.4
80°-90°	48.6	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°	9504.0	100.0
0°-180°	9504.0	100.0

Coefficient of Utilization



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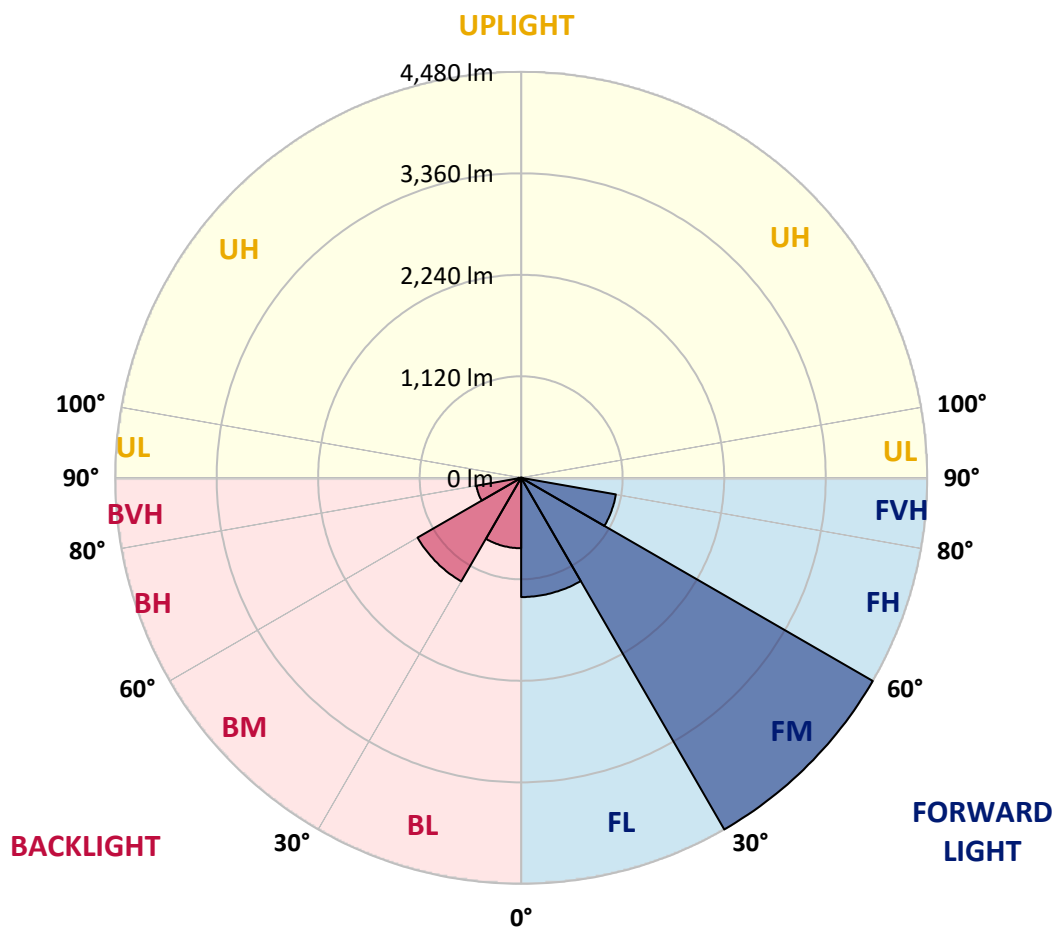
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1315.5	13.8			
FM	(30°-60°)	4479.9	47.1			
FH	(60°-80°)	1060.9	11.2			G1/1800
FVH	(80°-90°)	18.4	0.2			G1/100
BL	(0°-30°)	777.1	8.2	B2/1000		
BM	(30°-60°)	1319.6	13.9	B2/2500		
BH	(60°-80°)	502.3	5.3	B2/1000		G2/1000
BVH	(80°-90°)	30.3	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°	54°	55°	65°	75°	85°
0°	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1
2.5°	3799.2	3784.5	3786.9	3806.5	3782.1	3772.3	3772.3	3724.6	3728.3	3695.3	3686.8
5°	3711.2	3677.0	3700.2	3729.5	3734.4	3744.2	3760.1	3747.8	3713.6	3678.2	3620.8
7.5°	3481.5	3512.1	3520.6	3541.4	3585.4	3625.7	3675.8	3641.6	3640.3	3604.9	3570.7
10°	3280.0	3261.7	3308.1	3338.6	3411.9	3479.1	3556.1	3552.4	3570.7	3530.4	3471.8
12.5°	3079.6	3065.0	3087.0	3156.6	3259.2	3356.9	3448.6	3414.4	3512.1	3504.7	3378.9
15°	2867.1	2878.1	2909.8	2974.6	3109.0	3226.2	3342.3	3343.5	3430.2	3459.6	3291.0
17.5°	2718.0	2705.8	2746.1	2842.6	2962.4	3102.8	3234.8	3261.7	3394.8	3411.9	3264.1
20°	2606.9	2624.0	2676.5	2725.4	2863.4	3033.2	3182.2	3192.0	3387.5	3433.9	3221.3
22.5°	2580.0	2570.2	2587.3	2666.7	2780.3	2964.8	3154.2	3190.8	3386.3	3426.6	3140.7
25°	2551.9	2583.7	2582.4	2661.9	2744.9	2909.8	3177.4	3217.7	3451.0	3464.4	3151.7
27.5°	2615.4	2611.8	2646.0	2652.1	2754.7	2924.5	3226.2	3256.8	3558.5	3547.5	3160.3
30°	2679.0	2660.6	2681.4	2753.5	2801.1	3008.8	3360.6	3358.2	3697.8	3690.4	3187.1
32.5°	2757.1	2748.6	2762.0	2825.5	2906.2	3121.2	3474.2	3546.3	3839.5	3885.9	3280.0
35°	2771.8	2807.2	2839.0	2924.5	3039.3	3303.2	3688.0	3747.8	4003.2	4148.5	3457.1
37.5°	2864.6	2878.1	2952.6	3104.1	3209.1	3546.3	3823.6	3861.5	4152.2	4317.1	3644.0
40°	2963.6	2979.5	3091.9	3250.7	3394.8	3705.1	3950.6	3962.8	4199.8	4446.6	3766.2
42.5°	3098.0	3112.6	3223.8	3422.9	3615.9	3840.7	4063.0	4076.5	4196.2	4595.6	3960.4
45°	3237.2	3272.6	3403.4	3629.4	3802.8	3999.5	4088.7	4143.6	4230.4	4728.8	4118.0
47.5°	3432.7	3465.7	3573.2	3794.3	3997.1	4138.8	4207.2	4260.9	4312.2	4844.8	4219.4
50°	3640.3	3646.5	3777.2	3977.5	4126.5	4296.3	4428.3	4446.6	4419.7	4979.2	4391.6
52.5°	3793.0	3812.6	3914.0	4109.4	4331.8	4540.7	4721.5	4741.0	4688.5	5029.3	4450.3
55°	3540.2	3529.2	3694.1	3954.3	4469.8	4904.7	5167.3	5182.0	4883.9	5184.4	4642.1
57.5°	2736.4	2788.9	2929.4	3243.3	3971.4	5065.9	5511.8	5459.3	5118.5	5262.6	4764.2
60°	1988.8	1976.5	2070.6	2280.7	2992.9	4366.0	5211.3	5265.1	4926.7	4743.4	3928.6
62.5°	1619.8	1602.7	1610.1	1617.4	1931.3	2897.6	3857.8	3856.6	3794.3	3409.5	2649.6
65°	1294.9	1335.2	1338.9	1393.8	1434.1	1731.0	2235.5	2355.2	2051.1	1682.1	1220.4
67.5°	976.1	961.4	1010.3	1205.7	1281.5	1249.7	1220.4	1233.8	877.1	632.8	596.1
70°	575.4	569.3	627.9	840.5	1055.5	993.2	919.9	921.1	602.2	442.2	492.3
72.5°	315.2	313.9	326.2	426.3	599.8	623.0	552.2	569.3	359.1	357.9	384.8
75°	175.9	172.2	168.6	188.1	216.2	228.4	233.3	235.8	246.8	276.1	287.1
77.5°	64.7	62.3	62.3	72.1	91.6	114.8	145.4	147.8	174.7	200.3	211.3
80°	22.0	24.4	33.0	45.2	61.1	81.8	98.9	101.4	123.4	140.5	144.1
82.5°	13.4	14.7	22.0	31.8	44.0	57.4	73.3	74.5	91.6	102.6	107.5
85°	6.1	7.3	12.2	19.5	28.1	37.9	39.1	39.1	37.9	39.1	36.6
87.5°	0.0	0.0	2.4	2.4	2.4	3.7	4.9	3.7	6.1	7.3	7.3
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°	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1
2.5°	3661.1	3647.7	3606.1	3569.5	3558.5	3509.6	3437.6	3446.1	3393.6	3418.0	3392.4
5°	3611.0	3565.8	3459.6	3414.4	3295.9	3242.1	3205.5	3113.8	3071.1	3062.5	3025.9
7.5°	3482.8	3454.7	3321.5	3199.4	3073.5	2966.0	2828.0	2733.9	2666.7	2648.4	2594.7
10°	3381.4	3319.1	3134.6	2948.9	2769.4	2582.4	2402.9	2262.4	2194.0	2114.6	2087.7
12.5°	3281.2	3187.1	2937.9	2699.7	2467.6	2231.8	2014.4	1843.4	1694.3	1658.9	1646.7
15°	3218.9	3055.2	2762.0	2474.9	2145.1	1837.3	1619.8	1507.4	1415.8	1378.0	1404.8
17.5°	3137.0	2946.5	2593.4	2211.1	1848.3	1564.9	1382.8	1313.2	1280.2	1283.9	1272.9
20°	3034.4	2843.9	2372.3	1971.7	1583.2	1357.2	1253.4	1227.7	1232.6	1241.1	1237.5
22.5°	2961.1	2719.3	2212.3	1727.3	1368.2	1242.4	1199.6	1181.3	1197.2	1204.5	1198.4
25°	2904.9	2613.0	2018.1	1511.1	1243.6	1177.6	1158.1	1156.8	1181.3	1191.1	1184.9
27.5°	2853.6	2514.0	1825.1	1346.2	1160.5	1127.5	1121.4	1136.1	1152.0	1161.7	1170.3
30°	2823.1	2438.3	1644.3	1208.2	1119.0	1103.1	1092.1	1105.5	1114.1	1123.9	1119.0
32.5°	2852.4	2384.5	1469.6	1130.0	1084.8	1068.9	1083.6	1075.0	1089.7	1098.2	1084.8
35°	2944.0	2336.9	1345.0	1088.4	1045.7	1051.8	1054.2	1050.6	1056.7	1049.3	1065.2
37.5°	3034.4	2319.8	1230.1	1053.0	1027.4	1027.4	1024.9	1017.6	1029.8	1027.4	1034.7
40°	3149.3	2330.8	1132.4	1015.1	1010.3	1007.8	998.0	996.8	991.9	993.2	995.6
42.5°	3249.4	2355.2	1076.2	990.7	994.4	999.3	980.9	966.3	972.4	960.2	960.2
45°	3355.7	2377.2	1026.1	973.6	969.9	968.7	954.1	945.5	940.6	941.8	952.8
47.5°	3523.1	2409.0	988.3	950.4	952.8	934.5	930.9	919.9	924.7	932.1	933.3
50°	3641.6	2476.2	959.0	923.5	932.1	919.9	897.9	893.0	893.0	905.2	902.8
52.5°	3724.6	2570.2	930.9	894.2	897.9	888.1	880.8	869.8	862.4	879.5	888.1
55°	3978.7	2726.6	923.5	869.8	868.6	858.8	845.3	834.3	830.7	833.1	850.2
57.5°	3954.3	2677.7	900.3	827.0	824.6	811.1	797.7	794.0	792.8	795.3	800.1
60°	3210.3	1977.8	803.8	778.2	774.5	772.0	758.6	743.9	736.6	743.9	737.8
62.5°	2124.3	1324.2	708.5	719.5	722.0	715.9	693.9	679.2	681.6	690.2	676.8
65°	1043.2	778.2	642.6	671.9	674.3	657.2	636.4	619.3	610.8	618.1	612.0
67.5°	596.1	594.9	588.8	619.3	618.1	601.0	568.0	553.4	538.7	541.2	537.5
70°	505.7	515.5	527.7	546.1	544.8	525.3	486.2	475.2	454.4	452.0	445.9
72.5°	398.2	415.3	442.2	455.7	444.7	420.2	394.6	376.3	357.9	346.9	350.6
75°	295.6	320.1	334.7	343.3	326.2	312.7	292.0	270.0	248.0	238.2	234.5
77.5°	215.0	222.3	235.8	241.9	230.9	217.4	205.2	183.2	162.5	149.0	145.4
80°	150.3	155.1	164.9	164.9	164.9	158.8	142.9	120.9	107.5	95.3	92.8
82.5°	105.1	109.9	119.7	114.8	113.6	106.3	96.5	79.4	64.7	56.2	53.8
85°	36.6	40.3	48.9	58.6	62.3	61.1	55.0	44.0	34.2	28.1	25.7
87.5°	8.6	8.6	9.8	8.6	8.6	9.8	8.6	8.6	8.6	6.1	4.9
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)