

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: P527453

Luminaire Tested: **GALN-SA2C-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6914 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

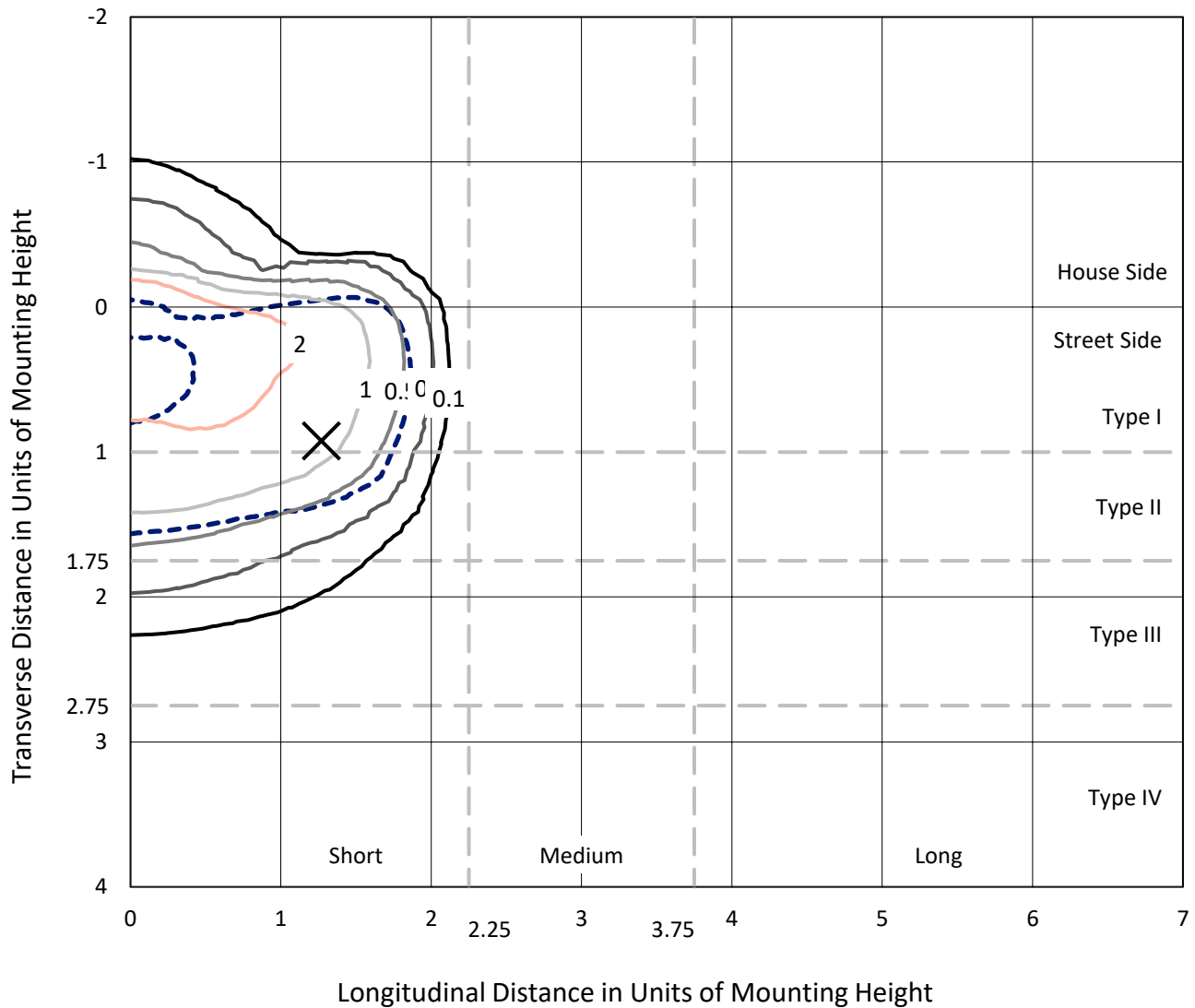


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Iso-Footcandle Lines of Horizontal Illumination

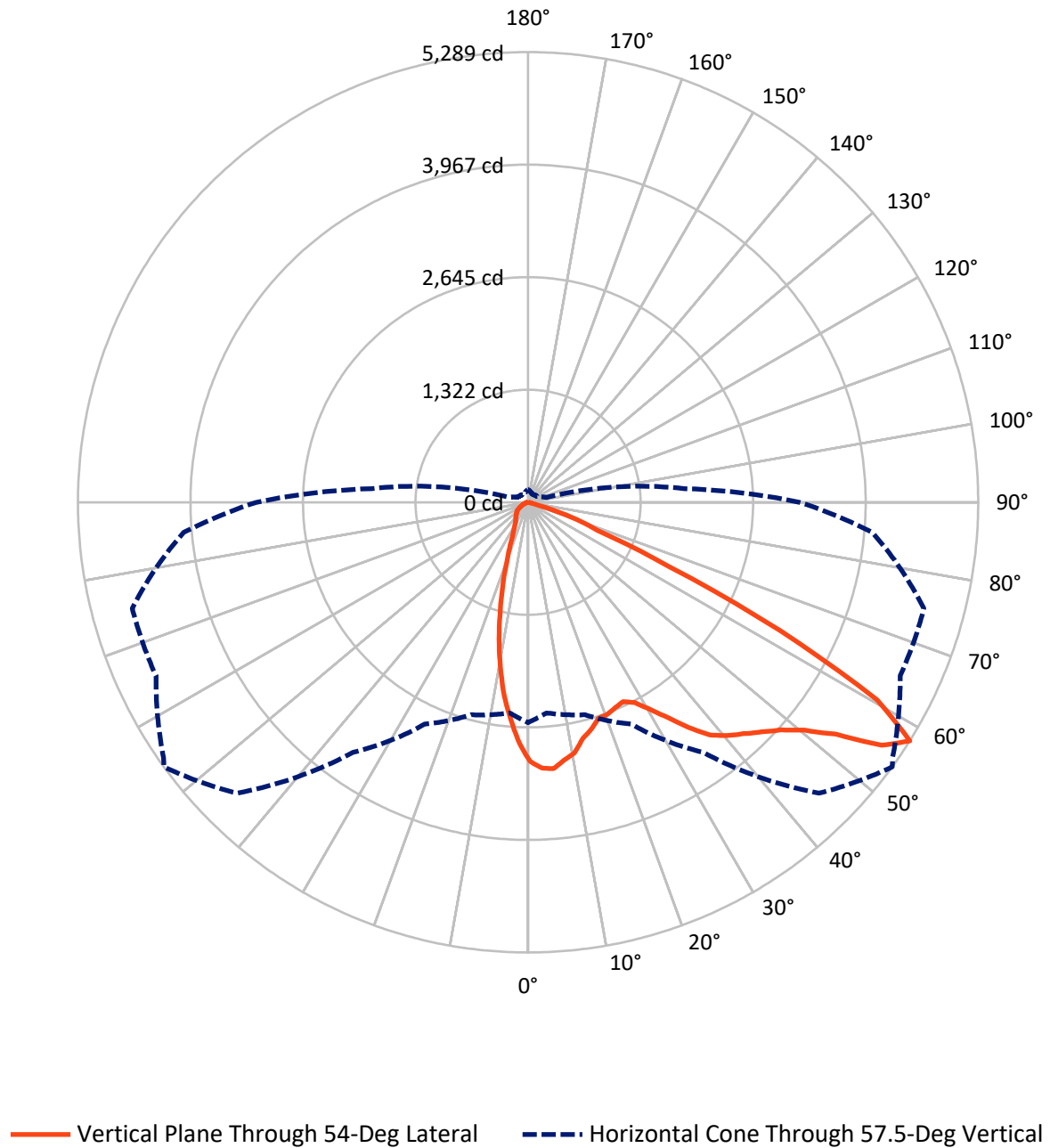
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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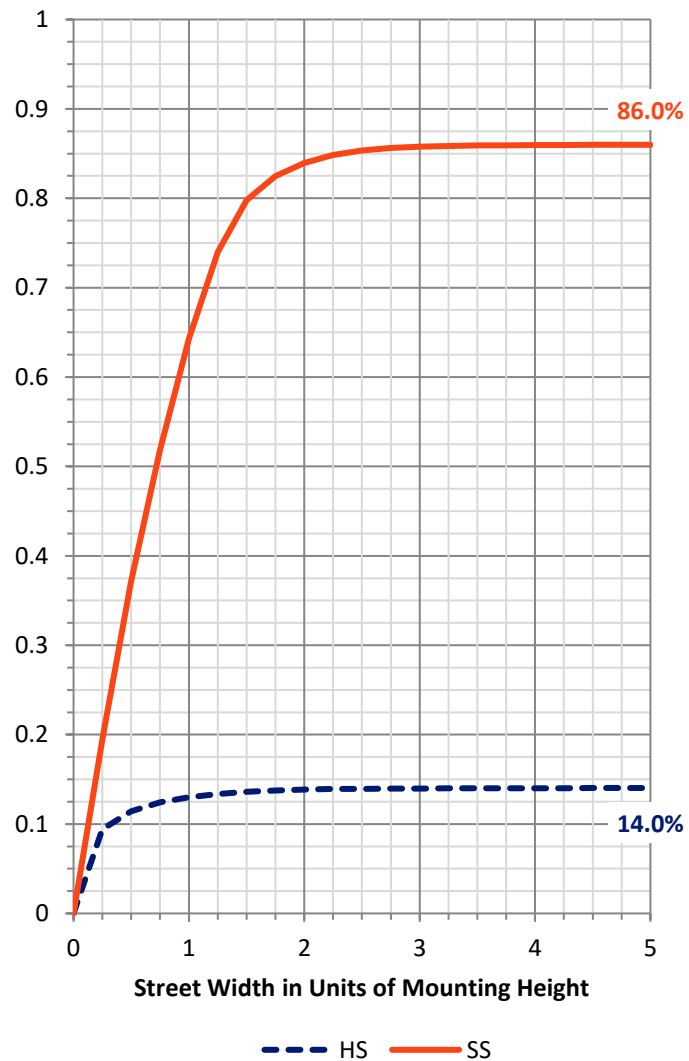
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	977.1	0.0	977.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	5936.9	0.0	5936.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	6914.0	0.0	6914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.9	3.7
10°-20°	544.1	7.9
20°-30°	721.1	10.4
30°-40°	1048.0	15.2
40°-50°	1554.0	22.5
50°-60°	1943.2	28.1
60°-70°	766.5	11.1
70°-80°	76.3	1.1
80°-90°	5.9	0.1
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°	6914.0	100.0
0°-180°	6914.0	100.0

Coefficient of Utilization



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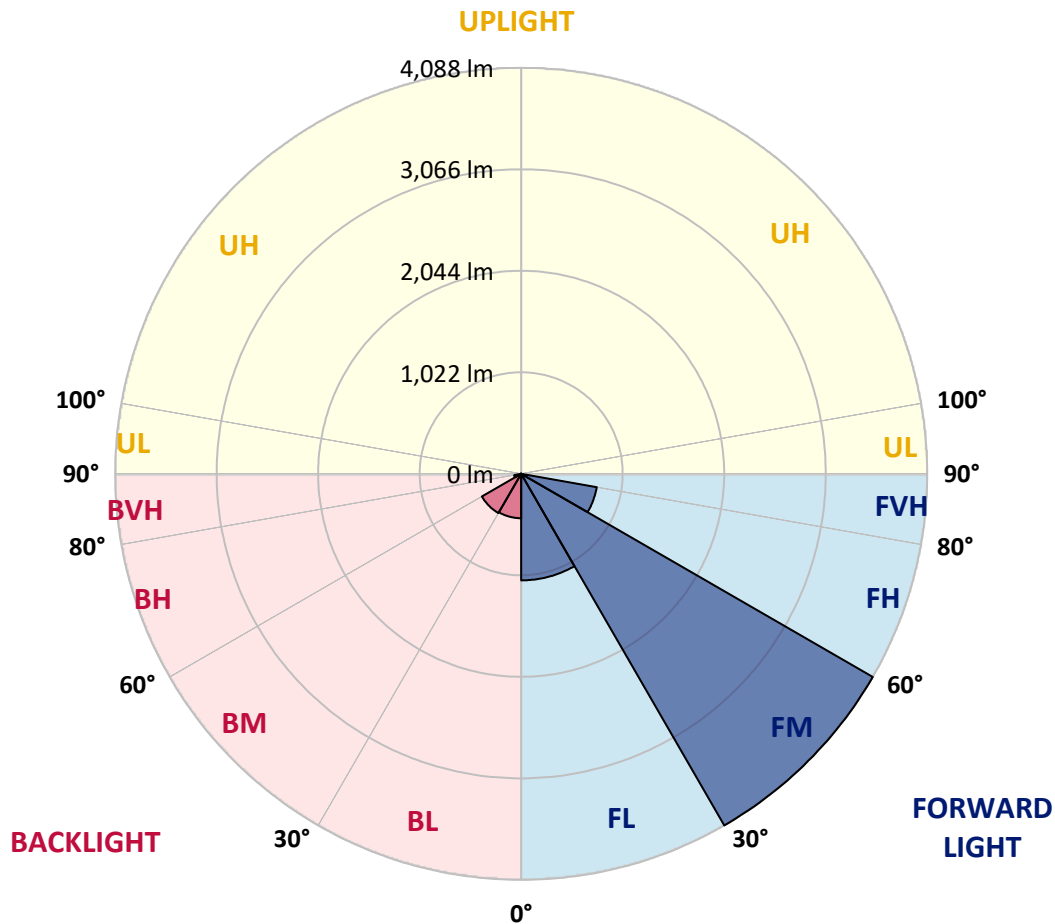
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1073.3	15.5			
FM	(30°-60°)	4088.2	59.1			
FH	(60°-80°)	772.8	11.2			G1/1800
FVH	(80°-90°)	2.7	0.0			G0/10
BL	(0°-30°)	446.9	6.5	B1/500		
BM	(30°-60°)	456.9	6.6	B1/1000		
BH	(60°-80°)	70.1	1.0	B0/110		G0/110
BVH	(80°-90°)	3.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3045.7	3045.7	3045.7	3045.7	3045.7	3045.7	3045.7	3045.7	3045.7	3045.7	3045.7
2.5°	3223.1	3189.7	3192.3	3180.7	3165.3	3176.8	3126.7	3138.3	3137.0	3068.9	3023.9
5°	3142.1	3178.1	3140.8	3171.7	3142.1	3174.3	3143.4	3120.3	3083.0	3032.9	2949.3
7.5°	3004.6	2969.9	2980.1	3018.7	3025.1	3097.1	3058.6	3088.1	3072.7	2973.7	2859.3
10°	2728.2	2720.4	2771.9	2823.3	2886.3	2963.4	2993.0	2976.3	2964.7	2927.4	2774.4
12.5°	2516.0	2537.9	2536.6	2621.4	2728.2	2771.9	2849.0	2846.4	2910.7	2841.3	2694.7
15°	2314.2	2325.7	2379.7	2432.5	2550.7	2675.4	2770.6	2783.4	2860.6	2811.7	2633.0
17.5°	2190.8	2174.0	2216.5	2279.5	2400.3	2563.6	2669.0	2699.9	2805.3	2795.0	2562.3
20°	2068.6	2068.6	2103.3	2177.9	2288.5	2472.3	2660.0	2651.0	2805.3	2775.7	2486.5
22.5°	2027.5	2048.0	2057.0	2113.6	2244.7	2402.9	2621.4	2638.2	2827.1	2766.7	2453.0
25°	2084.0	2057.0	2059.6	2104.6	2228.0	2369.5	2593.2	2630.4	2867.0	2811.7	2426.0
27.5°	2093.0	2120.0	2127.8	2158.6	2240.9	2379.7	2663.9	2739.7	2966.0	2917.1	2433.7
30°	2171.5	2198.5	2197.2	2249.9	2306.5	2463.3	2822.0	2837.4	3170.4	3049.6	2481.3
32.5°	2266.6	2294.9	2303.9	2365.6	2410.6	2616.3	3014.9	3054.7	3367.1	3257.8	2606.0
35°	2384.9	2374.6	2415.7	2477.5	2573.9	2840.0	3250.1	3317.0	3579.3	3527.8	2734.6
37.5°	2532.7	2519.9	2559.7	2660.0	2791.2	3104.9	3467.4	3511.1	3733.5	3778.5	2972.4
40°	2636.9	2642.0	2762.9	2897.9	3036.7	3356.8	3605.0	3647.4	3841.5	4012.5	3152.4
42.5°	2810.4	2842.6	2987.9	3152.4	3297.7	3545.8	3716.8	3758.0	3891.7	4200.2	3395.4
45°	3062.4	3048.3	3209.0	3392.8	3553.5	3742.5	3849.2	3835.1	3921.2	4386.6	3548.4
47.5°	3386.4	3389.0	3495.7	3652.5	3819.7	3913.5	3997.1	3947.0	3983.0	4583.4	3752.8
50°	3607.5	3626.8	3713.0	3873.7	3957.2	4101.2	4207.9	4177.1	4165.5	4701.6	3881.4
52.5°	3664.1	3722.0	3768.2	3968.8	4164.2	4391.8	4528.1	4593.6	4387.9	4741.5	4044.7
55°	3237.3	3288.7	3452.0	3727.1	4242.7	4852.1	5039.8	5041.0	4678.5	4918.9	4159.1
57.5°	2588.0	2483.9	2584.2	2876.0	3587.0	4832.8	5289.2	5228.7	4823.8	4814.8	4060.1
60°	1789.6	1763.9	1770.3	1886.1	2482.6	3844.1	4713.2	4791.6	4441.9	4173.2	3214.1
62.5°	1418.1	1396.2	1367.9	1355.1	1541.5	2395.2	3324.7	3435.3	3106.1	2706.3	1905.3
65°	1110.8	1097.9	1101.8	1153.2	1151.9	1358.9	1817.9	1772.9	1419.4	1049.1	599.1
67.5°	749.5	768.8	784.2	939.8	1019.5	946.2	878.1	852.4	461.5	194.1	132.4
70°	421.7	424.3	441.0	587.5	774.0	734.1	605.5	605.5	230.1	70.7	75.9
72.5°	230.1	222.4	207.0	253.3	344.6	349.7	270.0	235.3	68.1	46.3	42.4
75°	111.9	110.6	95.1	78.4	74.6	61.7	47.6	43.7	30.9	29.6	25.7
77.5°	23.1	21.9	11.6	11.6	12.9	14.1	18.0	18.0	21.9	21.9	18.0
80°	0.0	0.0	1.3	5.1	9.0	12.9	15.4	15.4	18.0	18.0	14.1
82.5°	0.0	0.0	1.3	3.9	7.7	11.6	14.1	15.4	18.0	19.3	15.4
85°	0.0	0.0	0.0	2.6	6.4	9.0	7.7	7.7	6.4	5.1	2.6
87.5°	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3045.7	3045.7	3045.7	3045.7	3045.7	3045.7	3045.7	3045.7	3045.7	3045.7	3045.7
2.5°	3000.7	2998.1	2939.0	2905.6	2845.1	2792.4	2750.0	2719.2	2719.2	2699.9	2681.9
5°	2915.9	2894.0	2768.0	2687.0	2572.6	2487.7	2429.9	2384.9	2314.2	2333.5	2257.6
7.5°	2810.4	2755.2	2588.0	2464.6	2306.5	2185.6	2062.2	1952.9	1847.5	1799.9	1825.6
10°	2697.3	2600.9	2375.9	2180.5	1983.8	1762.6	1618.6	1443.8	1335.8	1329.4	1301.1
12.5°	2577.7	2468.5	2194.6	1924.6	1666.2	1400.1	1180.2	1017.0	943.7	862.7	878.1
15°	2487.7	2325.7	1992.8	1667.5	1324.2	1055.5	834.4	708.4	639.0	619.7	613.3
17.5°	2390.0	2216.5	1787.1	1393.6	1038.8	759.8	600.4	540.0	513.0	513.0	509.1
20°	2288.5	2093.0	1582.6	1139.1	779.1	567.0	480.8	461.5	460.3	459.0	459.0
22.5°	2221.6	1951.6	1397.5	905.1	587.5	453.8	417.8	410.1	415.3	430.7	430.7
25°	2150.9	1815.3	1193.1	698.1	455.1	389.6	369.0	374.1	387.0	401.1	396.0
27.5°	2078.9	1726.6	1000.2	547.7	372.8	340.7	333.0	344.6	358.7	371.6	367.7
30°	2062.2	1631.5	817.7	415.3	320.1	297.0	302.1	312.4	326.6	331.7	336.8
32.5°	2087.9	1556.9	669.8	340.7	279.0	272.6	272.6	277.7	286.7	298.3	294.4
35°	2161.2	1514.5	529.7	295.7	255.8	249.4	248.1	253.3	258.4	262.3	258.4
37.5°	2273.0	1481.1	433.3	262.3	240.4	230.1	227.6	226.3	231.4	232.7	235.3
40°	2415.7	1499.1	367.7	241.7	225.0	213.4	205.7	205.7	205.7	209.6	210.8
42.5°	2570.0	1523.5	317.6	230.1	210.8	196.7	189.0	186.4	189.0	194.1	192.8
45°	2732.0	1571.1	285.4	212.1	198.0	180.0	169.7	167.1	173.6	183.8	182.6
47.5°	2883.7	1639.2	261.0	200.6	185.1	168.4	155.6	153.0	164.6	178.7	180.0
50°	3035.4	1757.5	252.0	191.6	176.1	156.8	145.3	142.7	155.6	173.6	177.4
52.5°	3210.3	1884.8	245.6	180.0	165.8	147.9	135.0	132.4	146.6	169.7	171.0
55°	3324.7	1992.8	240.4	159.4	146.6	133.7	123.4	122.1	137.6	158.1	163.3
57.5°	3191.0	1842.3	222.4	138.9	124.7	118.3	109.3	109.3	122.1	141.4	145.3
60°	2419.6	1212.4	158.1	111.9	105.4	101.6	97.7	97.7	108.0	122.1	123.4
62.5°	1416.8	653.1	101.6	90.0	90.0	86.1	79.7	79.7	90.0	97.7	99.0
65°	420.4	209.6	82.3	77.1	75.9	69.4	63.0	61.7	69.4	73.3	72.0
67.5°	120.9	96.4	68.1	64.3	63.0	52.7	48.9	47.6	48.9	46.3	45.0
70°	72.0	65.6	52.7	54.0	47.6	38.6	34.7	33.4	30.9	27.0	24.4
72.5°	39.9	39.9	38.6	41.1	33.4	25.7	21.9	18.0	14.1	11.6	10.3
75°	24.4	25.7	27.0	28.3	21.9	16.7	14.1	9.0	5.1	2.6	2.6
77.5°	16.7	18.0	19.3	20.6	18.0	15.4	11.6	6.4	1.3	0.0	0.0
80°	12.9	14.1	16.7	18.0	19.3	20.6	15.4	6.4	1.3	0.0	0.0
82.5°	14.1	15.4	19.3	18.0	18.0	18.0	14.1	6.4	1.3	0.0	0.0
85°	2.6	3.9	6.4	6.4	9.0	11.6	9.0	2.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)