

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: P527635

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527635
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-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 6570 lumens
Efficiency: N/A
Efficacy: 60.8 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

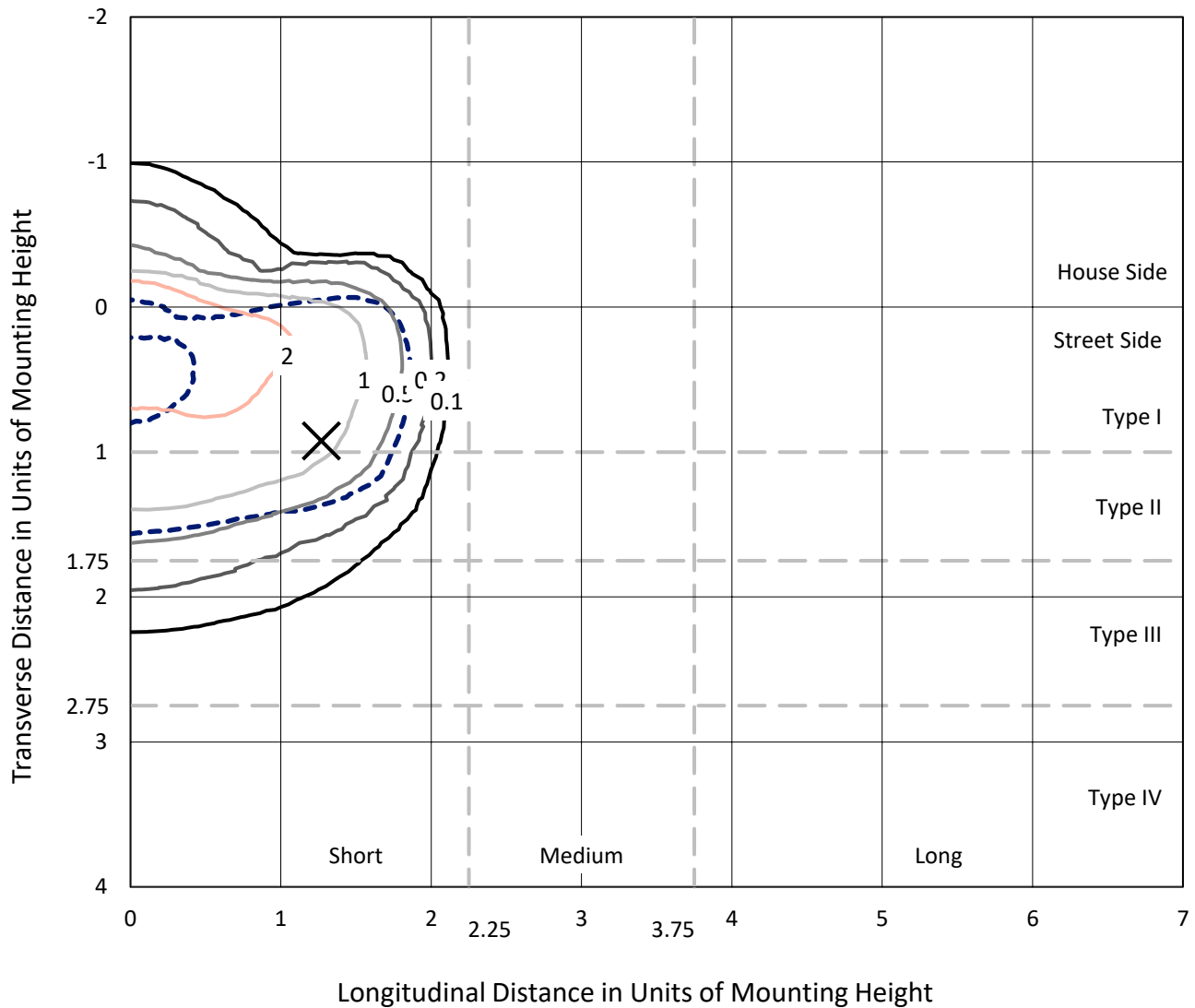


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Iso-Footcandle Lines of Horizontal Illumination

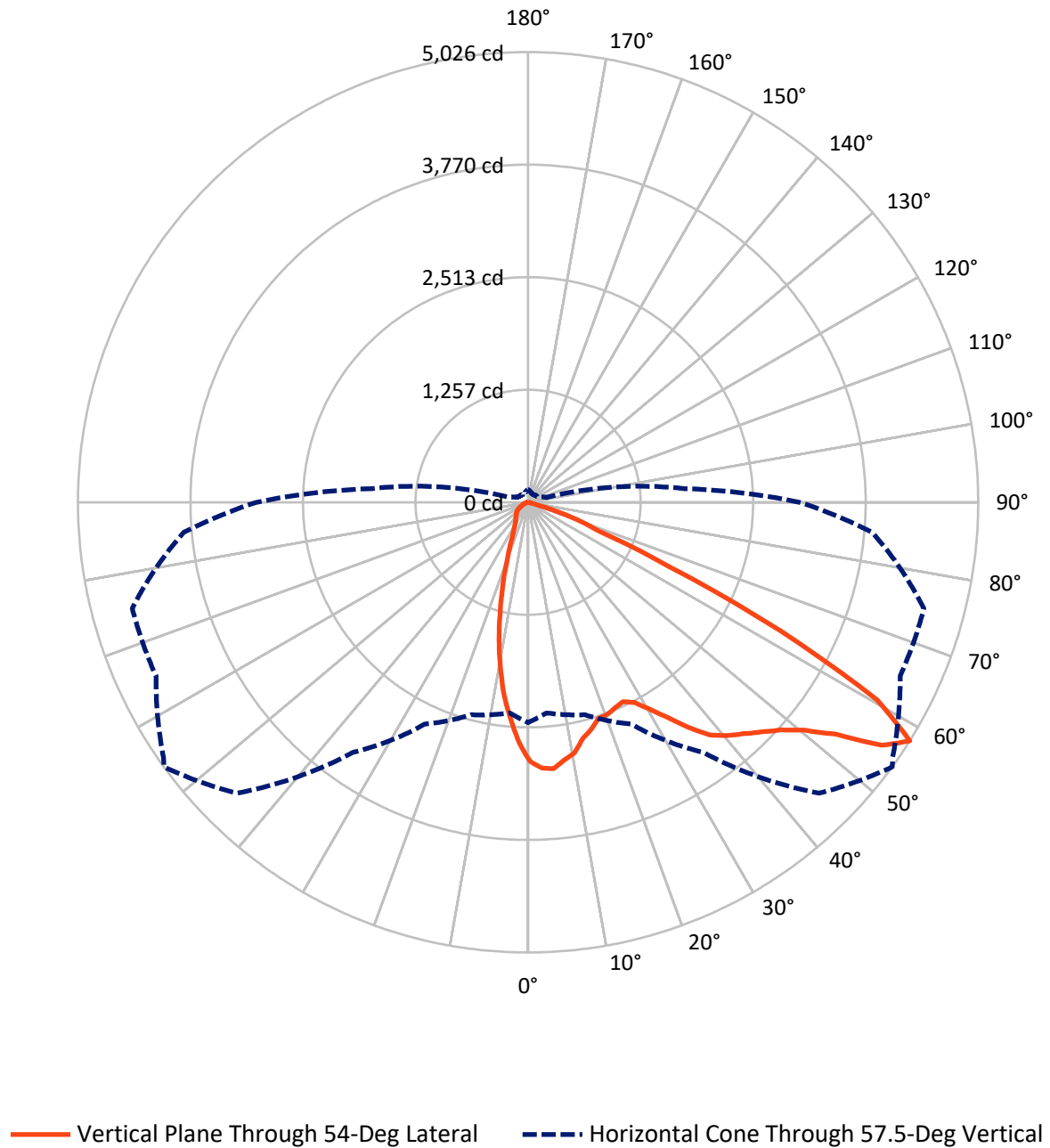
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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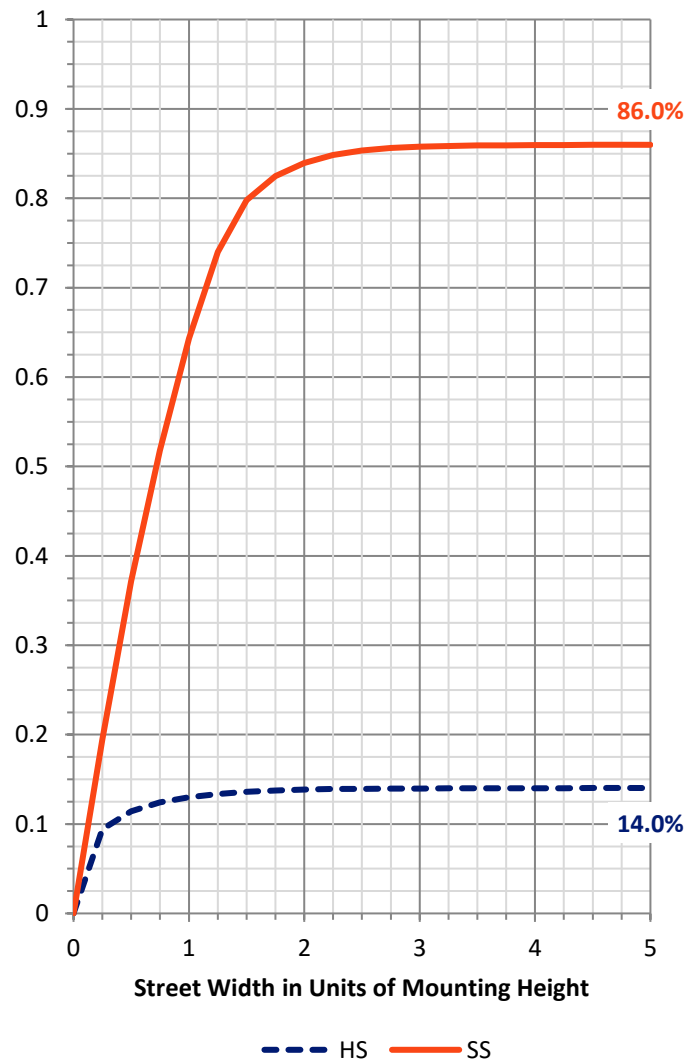
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	928.5	0.0	928.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	5641.5	0.0	5641.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	6570.0	0.0	6570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	3.7
10°-20°	517.1	7.9
20°-30°	685.2	10.4
30°-40°	995.8	15.2
40°-50°	1476.7	22.5
50°-60°	1846.5	28.1
60°-70°	728.4	11.1
70°-80°	72.5	1.1
80°-90°	5.6	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°	6570.0	100.0
0°-180°	6570.0	100.0

Coefficient of Utilization



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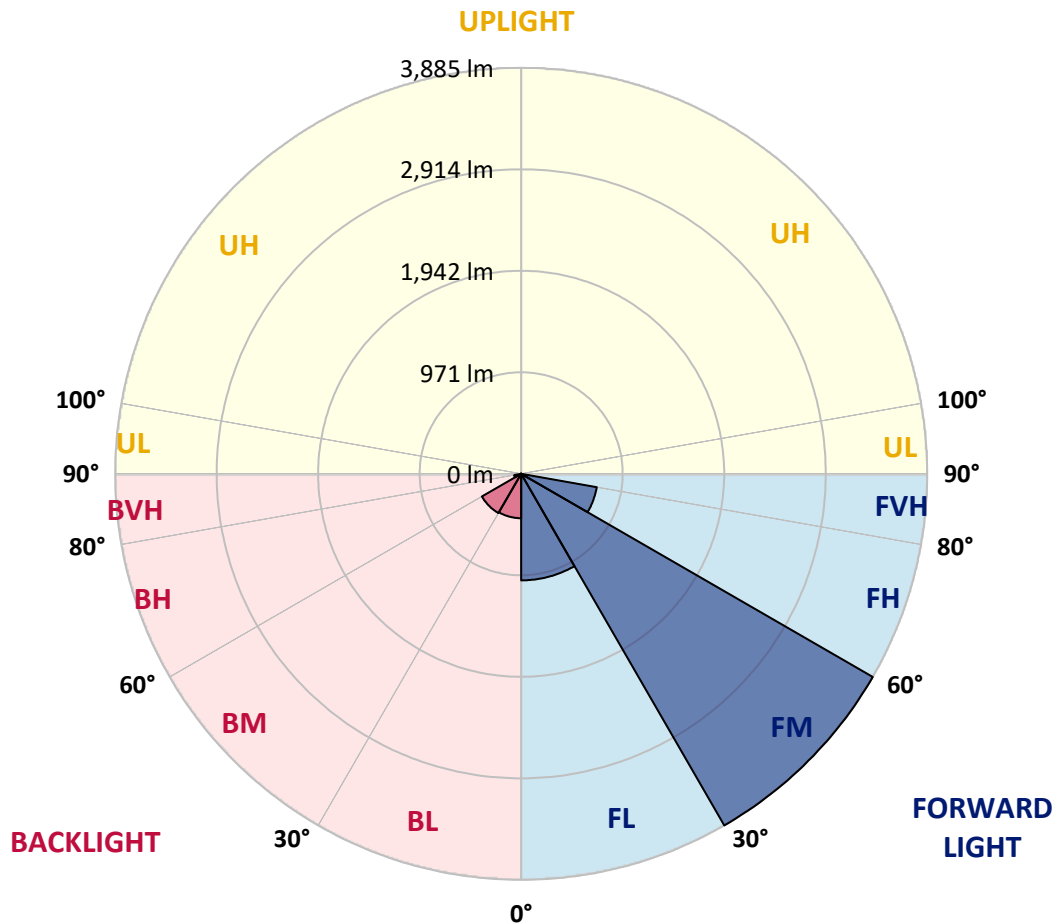
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1019.9	15.5			
FM	(30°-60°)	3884.8	59.1			
FH	(60°-80°)	734.3	11.2			G1/1800
FVH	(80°-90°)	2.6	0.0			G0/10
BL	(0°-30°)	424.6	6.5	B1/500		
BM	(30°-60°)	434.2	6.6	B1/1000		
BH	(60°-80°)	66.6	1.0	B0/110		G0/110
BVH	(80°-90°)	3.1	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°	2894.2	2894.2	2894.2	2894.2	2894.2	2894.2	2894.2	2894.2	2894.2	2894.2	2894.2
2.5°	3062.8	3031.0	3033.4	3022.5	3007.8	3018.8	2971.1	2982.1	2980.9	2916.2	2873.4
5°	2985.8	3020.0	2984.6	3013.9	2985.8	3016.3	2987.0	2965.0	2929.6	2882.0	2802.5
7.5°	2855.1	2822.1	2831.9	2868.5	2874.6	2943.0	2906.4	2934.5	2919.8	2825.8	2717.0
10°	2592.4	2585.1	2634.0	2682.8	2742.7	2816.0	2844.1	2828.2	2817.2	2781.8	2636.4
12.5°	2390.8	2411.6	2410.4	2491.0	2592.4	2634.0	2707.3	2704.8	2765.9	2699.9	2560.7
15°	2199.0	2210.0	2261.3	2311.4	2423.8	2542.3	2632.7	2644.9	2718.3	2671.8	2502.0
17.5°	2081.8	2065.9	2106.2	2166.0	2280.9	2436.0	2536.2	2565.5	2665.7	2655.9	2434.8
20°	1965.7	1965.7	1998.7	2069.5	2174.6	2349.3	2527.7	2519.1	2665.7	2637.6	2362.7
22.5°	1926.6	1946.1	1954.7	2008.5	2133.1	2283.3	2491.0	2506.9	2686.5	2629.1	2331.0
25°	1980.4	1954.7	1957.1	1999.9	2117.2	2251.6	2464.1	2499.6	2724.4	2671.8	2305.3
27.5°	1988.9	2014.6	2021.9	2051.2	2129.4	2261.3	2531.3	2603.4	2818.4	2772.0	2312.7
30°	2063.4	2089.1	2087.9	2137.9	2191.7	2340.7	2681.6	2696.3	3012.7	2897.8	2357.9
32.5°	2153.8	2180.7	2189.3	2247.9	2290.7	2486.1	2864.9	2902.7	3199.6	3095.8	2476.4
35°	2266.2	2256.5	2295.5	2354.2	2445.8	2698.7	3088.4	3151.9	3401.2	3352.3	2598.5
37.5°	2406.7	2394.5	2432.4	2527.7	2652.3	2950.4	3294.9	3336.4	3547.8	3590.5	2824.5
40°	2505.7	2510.6	2625.4	2753.7	2885.6	3189.8	3425.6	3465.9	3650.4	3812.9	2995.6
42.5°	2670.6	2701.1	2839.2	2995.6	3133.6	3369.4	3531.9	3571.0	3698.0	3991.2	3226.5
45°	2910.1	2896.6	3049.3	3224.0	3376.7	3556.3	3657.7	3644.3	3726.1	4168.4	3371.9
47.5°	3217.9	3220.4	3321.8	3470.8	3629.6	3718.8	3798.2	3750.6	3784.8	4355.3	3566.1
50°	3428.1	3446.4	3528.2	3680.9	3760.3	3897.2	3998.6	3969.3	3958.3	4467.7	3688.3
52.5°	3481.8	3536.8	3580.8	3771.3	3957.0	4173.3	4302.8	4365.1	4169.6	4505.6	3843.4
55°	3076.2	3125.1	3280.2	3541.7	4031.6	4610.6	4789.0	4790.2	4445.7	4674.2	3952.2
57.5°	2459.3	2360.3	2455.6	2732.9	3408.5	4592.3	5026.0	4968.6	4583.8	4575.2	3858.1
60°	1700.6	1676.2	1682.3	1792.2	2359.1	3652.8	4478.7	4553.2	4220.9	3965.6	3054.2
62.5°	1347.5	1326.8	1299.9	1287.7	1464.8	2276.0	3159.3	3264.3	2951.6	2571.6	1810.5
65°	1055.5	1043.3	1047.0	1095.9	1094.6	1291.3	1727.5	1684.7	1348.7	996.9	569.3
67.5°	712.2	730.6	745.2	893.1	968.8	899.2	834.4	810.0	438.6	184.5	125.8
70°	400.7	403.2	419.0	558.3	735.5	697.6	575.4	575.4	218.7	67.2	72.1
72.5°	218.7	211.4	196.7	240.7	327.4	332.3	256.6	223.6	64.7	44.0	40.3
75°	106.3	105.1	90.4	74.5	70.9	58.6	45.2	41.5	29.3	28.1	24.4
77.5°	22.0	20.8	11.0	11.0	12.2	13.4	17.1	17.1	20.8	20.8	17.1
80°	0.0	0.0	1.2	4.9	8.6	12.2	14.7	14.7	17.1	17.1	13.4
82.5°	0.0	0.0	1.2	3.7	7.3	11.0	13.4	14.7	17.1	18.3	14.7
85°	0.0	0.0	0.0	2.4	6.1	8.6	7.3	7.3	6.1	4.9	2.4
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°	2894.2	2894.2	2894.2	2894.2	2894.2	2894.2	2894.2	2894.2	2894.2	2894.2	2894.2
2.5°	2851.4	2849.0	2792.8	2761.0	2703.6	2653.5	2613.2	2583.9	2583.9	2565.5	2548.4
5°	2770.8	2750.0	2630.3	2553.3	2444.6	2364.0	2309.0	2266.2	2199.0	2217.4	2145.3
7.5°	2670.6	2618.1	2459.3	2342.0	2191.7	2076.9	1959.6	1855.7	1755.6	1710.4	1734.8
10°	2563.1	2471.5	2257.7	2072.0	1885.1	1674.9	1538.1	1372.0	1269.3	1263.2	1236.3
12.5°	2449.5	2345.6	2085.4	1828.9	1583.3	1330.4	1121.5	966.4	896.7	819.8	834.4
15°	2364.0	2210.0	1893.6	1584.5	1258.3	1003.0	792.9	673.1	607.2	588.9	582.7
17.5°	2271.1	2106.2	1698.1	1324.3	987.1	722.0	570.5	513.1	487.5	487.5	483.8
20°	2174.6	1988.9	1503.9	1082.4	740.3	538.8	456.9	438.6	437.4	436.1	436.1
22.5°	2111.1	1854.5	1328.0	860.1	558.3	431.3	397.0	389.7	394.6	409.3	409.3
25°	2043.9	1725.0	1133.7	663.4	432.5	370.2	350.6	355.5	367.7	381.2	376.3
27.5°	1975.5	1640.7	950.5	520.4	354.3	323.7	316.4	327.4	340.9	353.1	349.4
30°	1959.6	1550.3	777.0	394.6	304.2	282.2	287.1	296.9	310.3	315.2	320.1
32.5°	1984.0	1479.5	636.5	323.7	265.1	259.0	259.0	263.9	272.4	283.4	279.8
35°	2053.7	1439.1	503.3	281.0	243.1	237.0	235.8	240.7	245.6	249.2	245.6
37.5°	2159.9	1407.4	411.7	249.2	228.5	218.7	216.2	215.0	219.9	221.1	223.6
40°	2295.5	1424.5	349.4	229.7	213.8	202.8	195.5	195.5	195.5	199.1	200.4
42.5°	2442.1	1447.7	301.8	218.7	200.4	186.9	179.6	177.1	179.6	184.5	183.3
45°	2596.1	1492.9	271.2	201.6	188.1	171.0	161.3	158.8	164.9	174.7	173.5
47.5°	2740.2	1557.6	248.0	190.6	175.9	160.0	147.8	145.4	156.4	169.8	171.0
50°	2884.4	1670.0	239.5	182.0	167.4	149.0	138.1	135.6	147.8	164.9	168.6
52.5°	3050.5	1791.0	233.3	171.0	157.6	140.5	128.3	125.8	139.3	161.3	162.5
55°	3159.3	1893.6	228.5	151.5	139.3	127.1	117.3	116.1	130.7	150.3	155.2
57.5°	3032.2	1750.7	211.4	131.9	118.5	112.4	103.8	103.8	116.1	134.4	138.1
60°	2299.2	1152.0	150.3	106.3	100.2	96.5	92.8	92.8	102.6	116.1	117.3
62.5°	1346.3	620.6	96.5	85.5	85.5	81.9	75.7	75.7	85.5	92.8	94.1
65°	399.5	199.1	78.2	73.3	72.1	66.0	59.9	58.6	66.0	69.6	68.4
67.5°	114.8	91.6	64.7	61.1	59.9	50.1	46.4	45.2	46.4	44.0	42.8
70°	68.4	62.3	50.1	51.3	45.2	36.7	33.0	31.8	29.3	25.7	23.2
72.5°	37.9	37.9	36.7	39.1	31.8	24.4	20.8	17.1	13.4	11.0	9.8
75°	23.2	24.4	25.7	26.9	20.8	15.9	13.4	8.6	4.9	2.4	2.4
77.5°	15.9	17.1	18.3	19.5	17.1	14.7	11.0	6.1	1.2	0.0	0.0
80°	12.2	13.4	15.9	17.1	18.3	19.5	14.7	6.1	1.2	0.0	0.0
82.5°	13.4	14.7	18.3	17.1	17.1	17.1	13.4	6.1	1.2	0.0	0.0
85°	2.4	3.7	6.1	6.1	8.6	11.0	8.6	2.4	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)