

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: P527402

Luminaire Tested: **GALN-SA2B-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527402
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-SA2B-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA 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: 7693 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 82
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



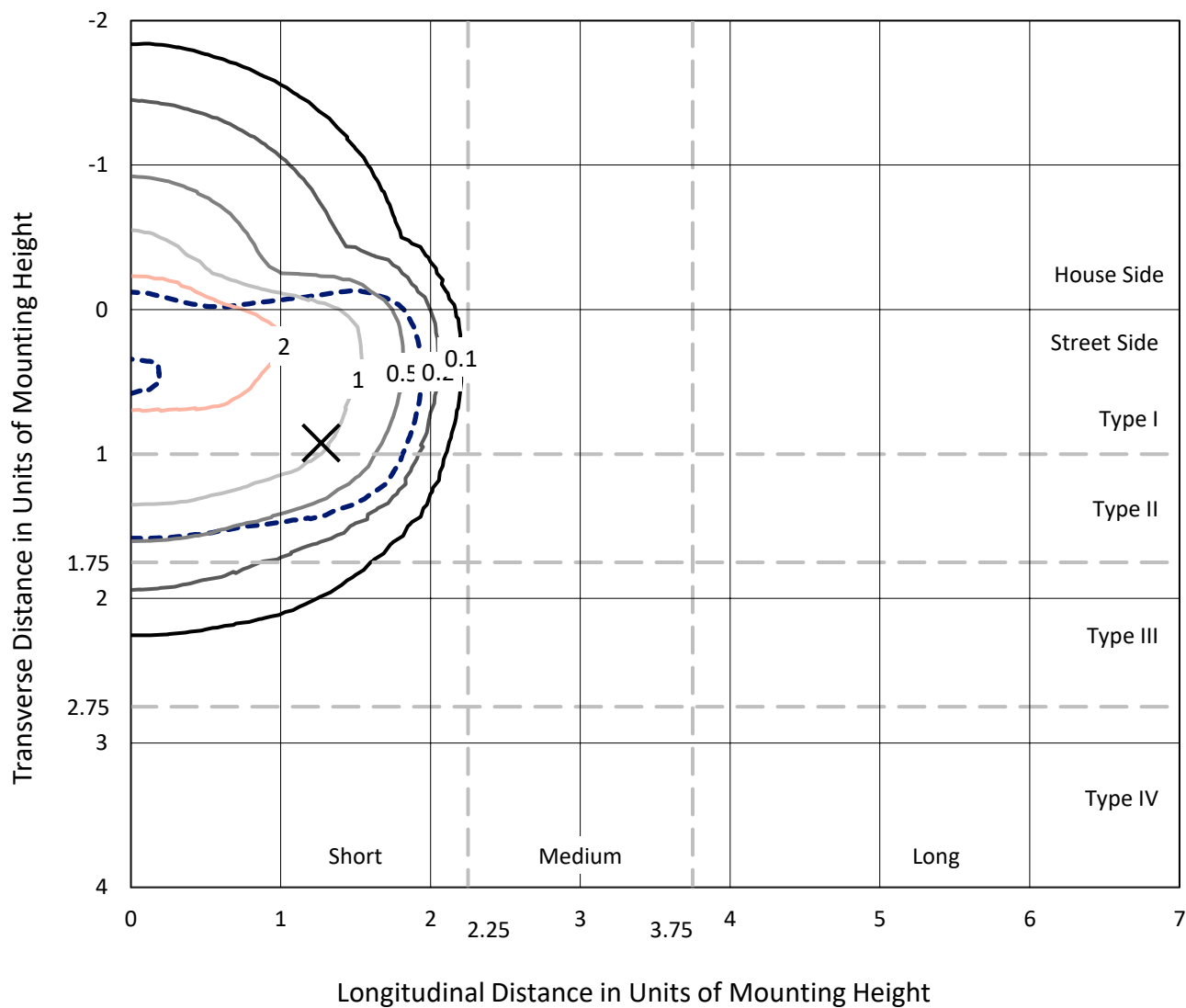
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



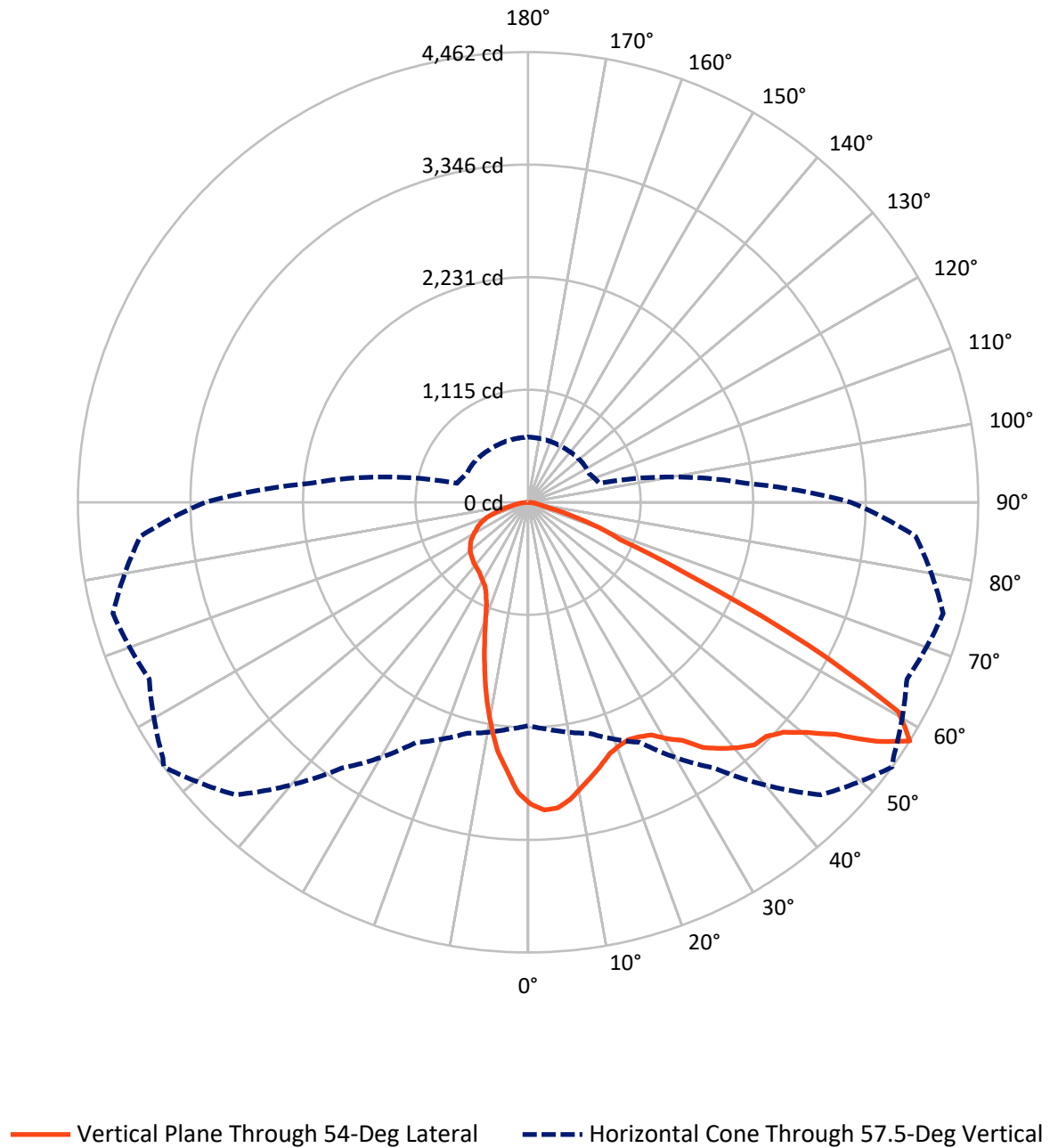
Based on 25 foot mounting height. Maximum calculated value = 4.8 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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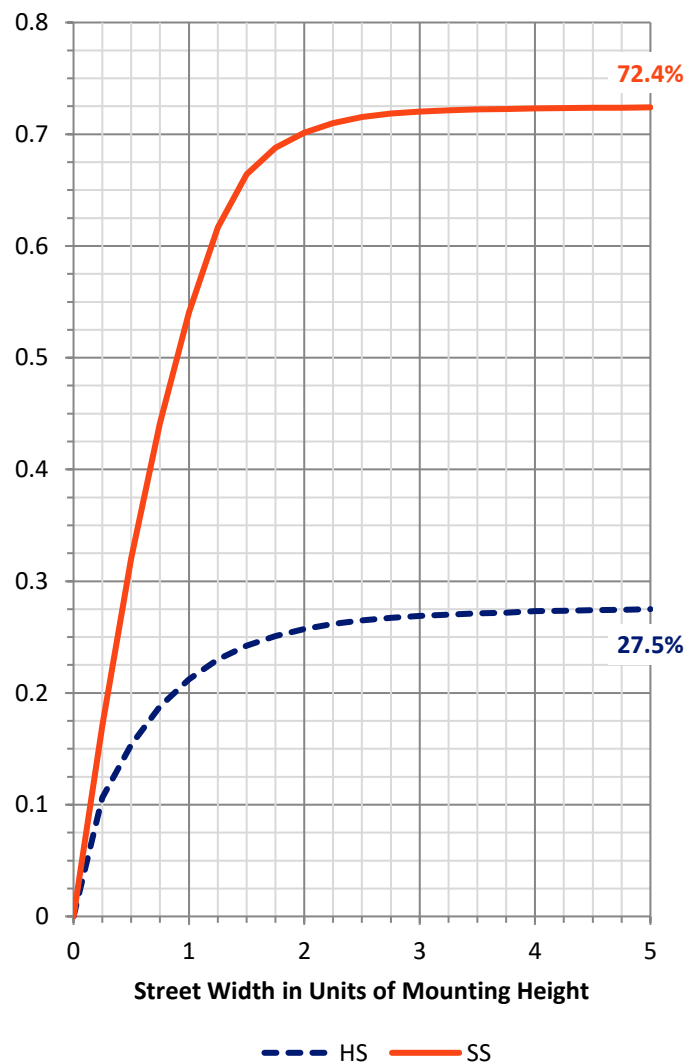
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2128.3	0.0	2128.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	5564.7	0.0	5564.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	7693.0	0.0	7693.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	3.4
10°-20°	597.1	7.8
20°-30°	838.9	10.9
30°-40°	1172.8	15.2
40°-50°	1587.7	20.6
50°-60°	1933.9	25.1
60°-70°	1007.3	13.1
70°-80°	258.1	3.4
80°-90°	39.4	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°	7693.0	100.0
0°-180°	7693.0	100.0

Coefficient of Utilization



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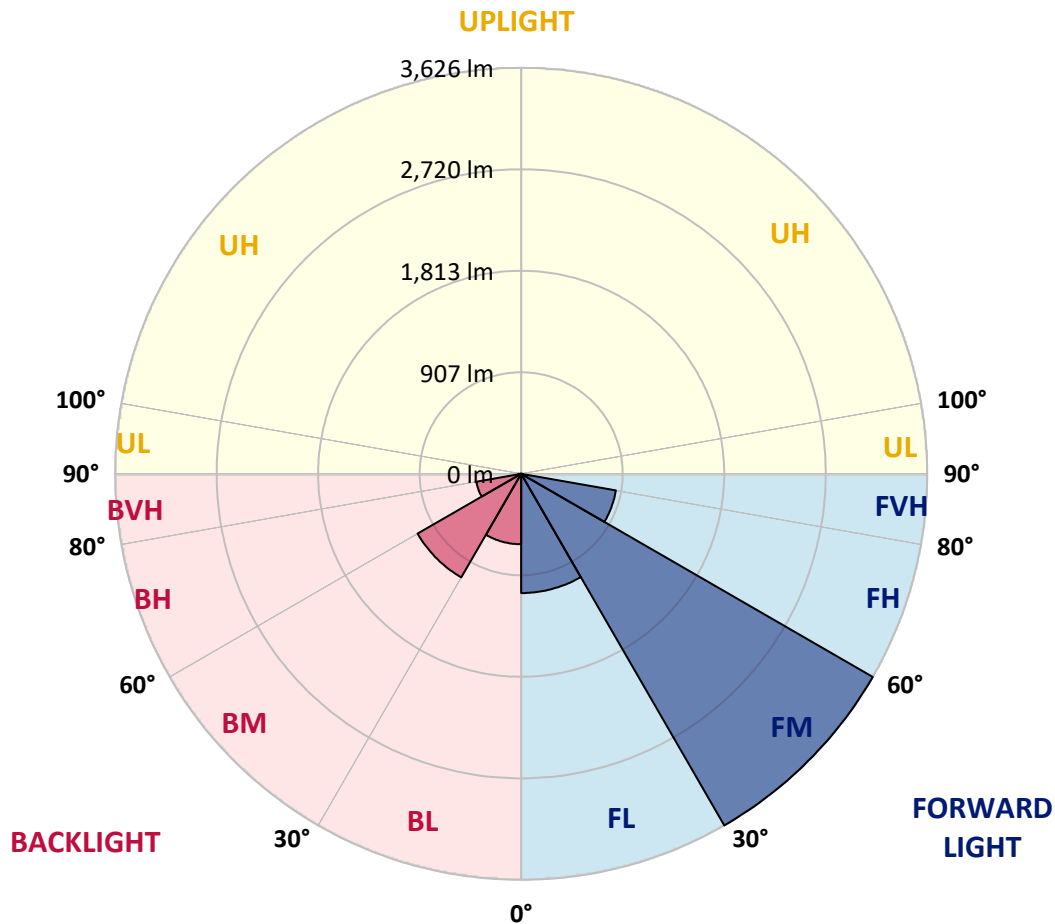
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1064.8	13.8			
FM	(30°-60°)	3626.2	47.1			
FH	(60°-80°)	858.8	11.2			G1/1800
FVH	(80°-90°)	14.9	0.2			G1/100
BL	(0°-30°)	629.0	8.2	B2/1000		
BM	(30°-60°)	1068.2	13.9	B2/2500		
BH	(60°-80°)	406.6	5.3	B1/500		G1/500
BVH	(80°-90°)	24.5	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2
2.5°	3075.2	3063.4	3065.3	3081.2	3061.4	3053.5	3053.5	3014.9	3017.9	2991.2	2984.2
5°	3004.0	2976.3	2995.1	3018.9	3022.8	3030.7	3043.6	3033.7	3006.0	2977.3	2930.9
7.5°	2818.1	2842.8	2849.8	2866.6	2902.2	2934.8	2975.3	2947.7	2946.7	2918.0	2890.3
10°	2655.0	2640.1	2677.7	2702.4	2761.8	2816.1	2878.4	2875.5	2890.3	2857.7	2810.2
12.5°	2492.8	2480.9	2498.7	2555.1	2638.2	2717.3	2791.4	2763.7	2842.8	2836.9	2735.1
15°	2320.8	2329.7	2355.4	2407.8	2516.5	2611.5	2705.4	2706.4	2776.6	2800.3	2663.9
17.5°	2200.1	2190.2	2222.9	2301.0	2397.9	2511.6	2618.4	2640.1	2747.9	2761.8	2642.1
20°	2110.1	2124.0	2166.5	2206.0	2317.8	2455.2	2575.9	2583.8	2742.0	2779.6	2607.5
22.5°	2088.4	2080.5	2094.3	2158.6	2250.5	2399.9	2553.1	2582.8	2741.0	2773.6	2542.2
25°	2065.6	2091.3	2090.4	2154.6	2221.9	2355.4	2571.9	2604.5	2793.4	2804.3	2551.1
27.5°	2117.1	2114.1	2141.8	2146.7	2229.8	2367.2	2611.5	2636.2	2880.4	2871.5	2558.1
30°	2168.5	2153.6	2170.5	2228.8	2267.4	2435.5	2720.2	2718.3	2993.1	2987.2	2579.8
32.5°	2231.8	2224.8	2235.7	2287.1	2352.4	2526.4	2812.2	2870.5	3107.9	3145.4	2655.0
35°	2243.6	2272.3	2298.0	2367.2	2460.2	2673.8	2985.2	3033.7	3240.4	3358.0	2798.4
37.5°	2318.8	2329.7	2390.0	2512.6	2597.6	2870.5	3095.0	3125.6	3361.0	3494.5	2949.6
40°	2398.9	2411.7	2502.7	2631.2	2747.9	2999.1	3197.8	3207.7	3399.6	3599.3	3048.5
42.5°	2507.6	2519.5	2609.5	2770.7	2926.9	3108.8	3288.8	3299.7	3396.6	3719.9	3205.7
45°	2620.4	2649.0	2754.8	2937.8	3078.2	3237.4	3309.6	3354.1	3424.3	3827.7	3333.3
47.5°	2778.6	2805.3	2892.3	3071.3	3235.4	3350.1	3405.5	3449.0	3490.5	3921.6	3415.4
50°	2946.7	2951.6	3057.4	3219.6	3340.2	3477.7	3584.5	3599.3	3577.5	4030.4	3554.8
52.5°	3070.3	3086.1	3168.2	3326.4	3506.3	3675.4	3821.8	3837.6	3795.1	4071.0	3602.3
55°	2865.6	2856.7	2990.2	3200.8	3618.1	3970.1	4182.7	4194.6	3953.3	4196.5	3757.5
57.5°	2214.9	2257.5	2371.2	2625.3	3214.6	4100.6	4461.5	4419.0	4143.1	4259.8	3856.4
60°	1609.8	1599.9	1676.0	1846.1	2422.6	3534.0	4218.3	4261.8	3987.9	3839.6	3180.0
62.5°	1311.2	1297.3	1303.3	1309.2	1563.3	2345.5	3122.7	3121.7	3071.3	2759.8	2144.7
65°	1048.1	1080.8	1083.7	1128.2	1160.9	1401.2	1809.5	1906.4	1660.2	1361.6	987.8
67.5°	790.1	778.2	817.8	976.0	1037.3	1011.6	987.8	998.7	710.0	512.2	482.5
70°	465.7	460.8	508.3	680.3	854.3	803.9	744.6	745.6	487.5	358.0	398.5
72.5°	255.1	254.1	264.0	345.1	485.5	504.3	446.9	460.8	290.7	289.7	311.5
75°	142.4	139.4	136.5	152.3	175.0	184.9	188.9	190.8	199.7	223.5	232.4
77.5°	52.4	50.4	50.4	58.3	74.2	92.9	117.7	119.6	141.4	162.2	171.1
80°	17.8	19.8	26.7	36.6	49.4	66.3	80.1	82.1	99.9	113.7	116.7
82.5°	10.9	11.9	17.8	25.7	35.6	46.5	59.3	60.3	74.2	83.1	87.0
85°	4.9	5.9	9.9	15.8	22.7	30.7	31.6	31.6	30.7	31.6	29.7
87.5°	0.0	0.0	2.0	2.0	2.0	3.0	4.0	3.0	4.9	5.9	5.9
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°	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2
2.5°	2963.5	2952.6	2919.0	2889.3	2880.4	2840.9	2782.5	2789.5	2746.9	2766.7	2745.9
5°	2922.9	2886.4	2800.3	2763.7	2667.8	2624.3	2594.7	2520.5	2485.9	2479.0	2449.3
7.5°	2819.1	2796.4	2688.6	2589.7	2487.9	2400.8	2289.1	2213.0	2158.6	2143.8	2100.2
10°	2737.0	2686.6	2537.3	2387.0	2241.6	2090.4	1945.0	1831.3	1775.9	1711.6	1689.9
12.5°	2656.0	2579.8	2378.1	2185.3	1997.4	1806.6	1630.6	1492.1	1371.5	1342.8	1332.9
15°	2605.5	2473.0	2235.7	2003.3	1736.4	1487.2	1311.2	1220.2	1146.0	1115.4	1137.1
17.5°	2539.3	2385.0	2099.3	1789.8	1496.1	1266.7	1119.3	1063.0	1036.3	1039.2	1030.3
20°	2456.2	2302.0	1920.3	1595.9	1281.5	1098.6	1014.5	993.8	997.7	1004.6	1001.7
22.5°	2396.9	2201.1	1790.7	1398.2	1107.5	1005.6	971.0	956.2	969.0	975.0	970.0
25°	2351.4	2115.1	1633.5	1223.2	1006.6	953.2	937.4	936.4	956.2	964.1	959.2
27.5°	2309.9	2035.0	1477.3	1089.7	939.4	912.7	907.7	919.6	932.5	940.4	947.3
30°	2285.2	1973.7	1330.9	977.9	905.8	892.9	884.0	894.9	901.8	909.7	905.8
32.5°	2308.9	1930.2	1189.5	914.7	878.1	865.2	877.1	870.2	882.0	888.9	878.1
35°	2383.0	1891.6	1088.7	881.0	846.4	851.4	853.3	850.4	855.3	849.4	862.2
37.5°	2456.2	1877.8	995.7	852.4	831.6	831.6	829.6	823.7	833.6	831.6	837.5
40°	2549.2	1886.7	916.6	821.7	817.8	815.8	807.9	806.9	802.9	803.9	805.9
42.5°	2630.3	1906.4	871.1	801.9	804.9	808.9	794.0	782.2	787.1	777.2	777.2
45°	2716.3	1924.2	830.6	788.1	785.1	784.1	772.3	765.3	761.4	762.4	771.3
47.5°	2851.7	1949.9	800.0	769.3	771.3	756.4	753.5	744.6	748.5	754.5	755.5
50°	2947.7	2004.3	776.2	747.5	754.5	744.6	726.8	722.8	722.8	732.7	730.7
52.5°	3014.9	2080.5	753.5	723.8	726.8	718.9	712.9	704.0	698.1	711.9	718.9
55°	3220.6	2207.0	747.5	704.0	703.0	695.1	684.3	675.4	672.4	674.4	688.2
57.5°	3200.8	2167.5	728.8	669.4	667.5	656.6	645.7	642.7	641.7	643.7	647.7
60°	2598.6	1600.9	650.6	629.9	626.9	624.9	614.1	602.2	596.3	602.2	597.2
62.5°	1719.6	1071.9	573.5	582.4	584.4	579.4	561.6	549.8	551.8	558.7	547.8
65°	844.4	629.9	520.1	543.8	545.8	532.0	515.2	501.3	494.4	500.3	495.4
67.5°	482.5	481.6	476.6	501.3	500.3	486.5	459.8	447.9	436.1	438.0	435.1
70°	409.4	417.3	427.2	442.0	441.0	425.2	393.5	384.6	367.8	365.9	360.9
72.5°	322.4	336.2	358.0	368.8	359.9	340.2	319.4	304.6	289.7	280.8	283.8
75°	239.3	259.1	270.9	277.9	264.0	253.1	236.3	218.5	200.7	192.8	189.9
77.5°	174.0	180.0	190.8	195.8	186.9	176.0	166.1	148.3	131.5	120.6	117.7
80°	121.6	125.6	133.5	133.5	133.5	128.5	115.7	97.9	87.0	77.1	75.2
82.5°	85.0	89.0	96.9	92.9	92.0	86.0	78.1	64.3	52.4	45.5	43.5
85°	29.7	32.6	39.6	47.5	50.4	49.4	44.5	35.6	27.7	22.7	20.8
87.5°	6.9	6.9	7.9	6.9	6.9	7.9	6.9	6.9	6.9	4.9	4.0
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)