

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: P949508

Luminaire Tested: **GALN-SB4B-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21213 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 147
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

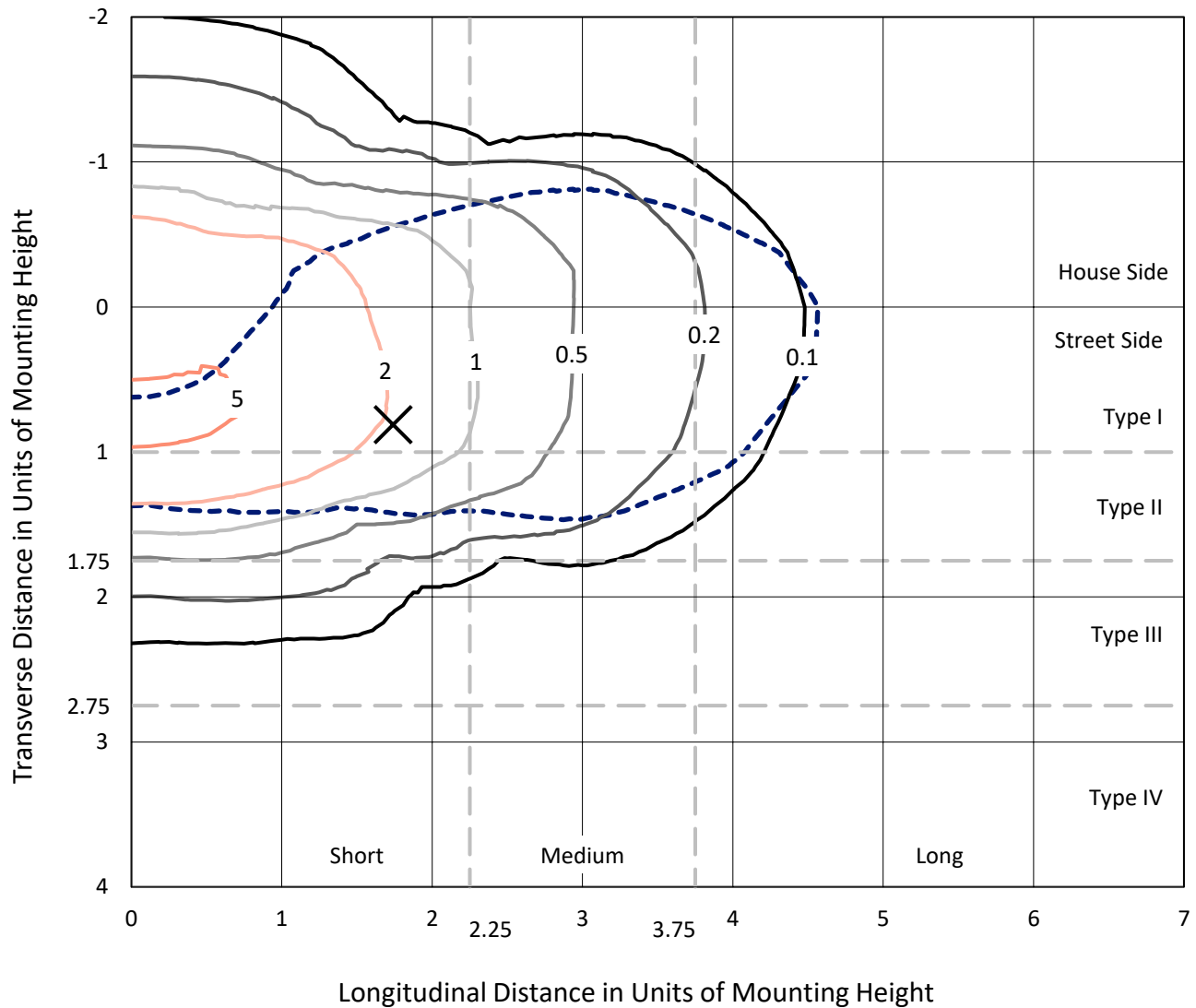


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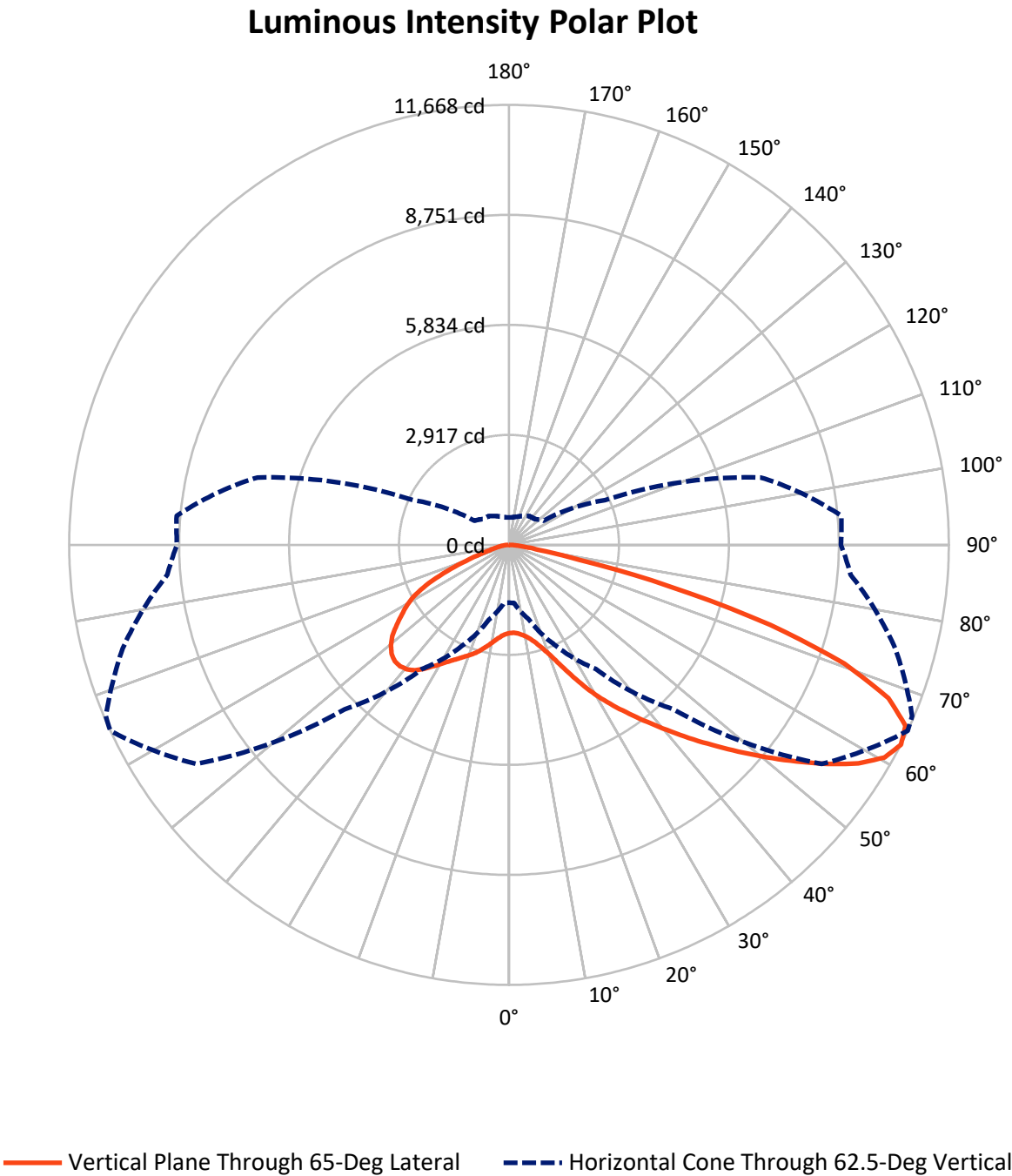
Iso-Footcandle Lines of Horizontal Illumination

✕ 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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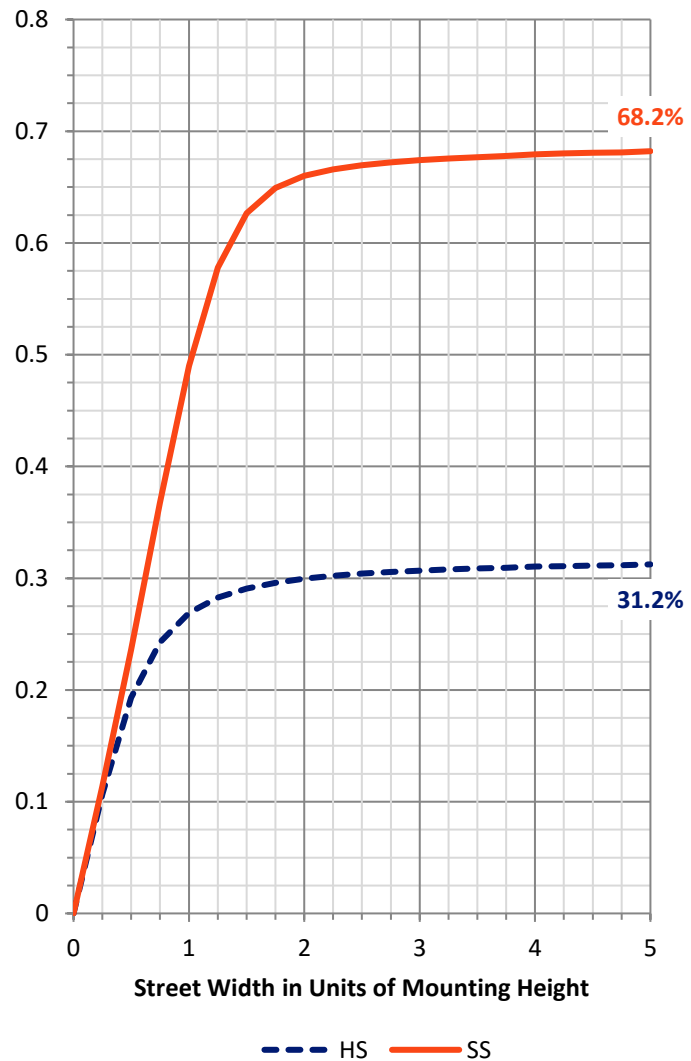
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6693.9	0.0	6693.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	14519.1	0.0	14519.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	21213.0	0.0	21213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.1	1.1
10°-20°	790.3	3.7
20°-30°	1602.4	7.6
30°-40°	2773.0	13.1
40°-50°	4196.4	19.8
50°-60°	4920.0	23.2
60°-70°	4124.8	19.4
70°-80°	2277.2	10.7
80°-90°	295.8	1.4
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°	21213.0	100.0
0°-180°	21213.0	100.0

Coefficient of Utilization



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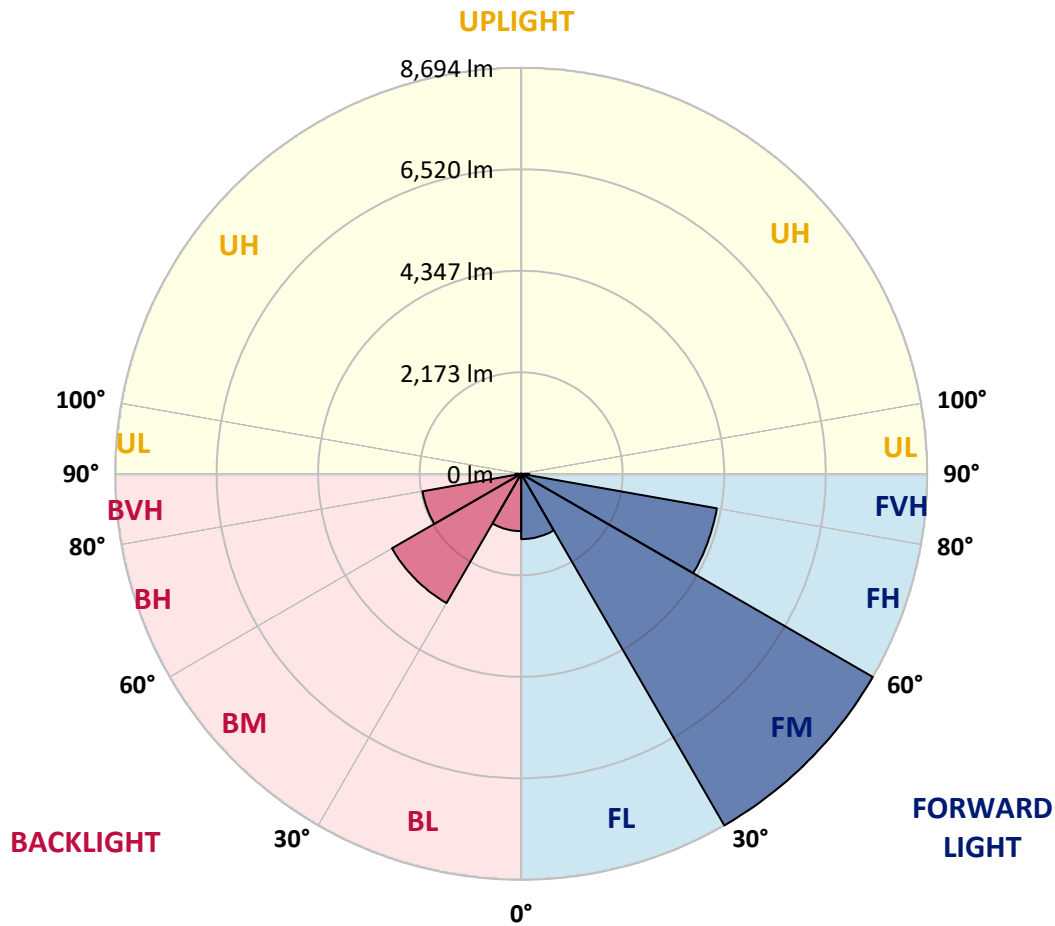
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1398.2	6.6			
FM	(30°-60°)	8693.8	41.0			
FH	(60°-80°)	4254.7	20.1			G2/5000
FVH	(80°-90°)	172.4	0.8			G2/225
BL	(0°-30°)	1227.6	5.8	B3/2500		
BM	(30°-60°)	3195.6	15.1	B3/5000		
BH	(60°-80°)	2147.3	10.1	B3/2500		G3/2500
BVH	(80°-90°)	123.4	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6
2.5°	2322.2	2315.6	2321.1	2321.1	2323.3	2322.2	2329.9	2332.1	2335.4	2342.0	2342.0
5°	2299.1	2298.0	2307.9	2316.7	2325.5	2333.2	2343.1	2357.4	2359.6	2367.3	2377.2
7.5°	2291.4	2284.8	2300.2	2311.2	2332.1	2350.8	2377.2	2401.4	2411.3	2414.6	2433.3
10°	2350.8	2339.8	2354.1	2360.7	2378.3	2397.0	2427.8	2466.3	2477.4	2490.6	2511.5
12.5°	2452.0	2439.9	2460.8	2470.7	2487.3	2503.8	2524.7	2562.1	2567.6	2591.8	2611.6
15°	2590.7	2576.4	2589.6	2601.7	2629.2	2644.6	2665.5	2701.9	2701.9	2720.6	2734.9
17.5°	2778.9	2760.2	2770.1	2774.5	2792.1	2815.2	2850.4	2882.4	2898.9	2892.3	2872.5
20°	3059.5	3036.4	3036.4	3014.4	3007.8	3026.5	3072.8	3116.8	3134.4	3100.3	3051.8
22.5°	3481.1	3448.0	3429.3	3354.5	3324.8	3327.0	3373.2	3427.1	3441.4	3380.9	3272.0
25°	4017.0	3965.3	3940.0	3829.9	3762.8	3704.5	3740.8	3810.1	3829.9	3755.1	3579.0
27.5°	4553.0	4556.3	4532.1	4400.0	4288.9	4182.1	4163.4	4236.0	4257.0	4172.2	3954.3
30°	5304.7	5226.5	5180.3	5021.8	4863.4	4713.7	4636.6	4666.4	4671.9	4570.6	4317.5
32.5°	5952.9	5933.1	5834.0	5695.4	5491.8	5257.4	5128.6	5081.3	5072.5	4928.3	4627.8
35°	6691.4	6680.4	6575.8	6410.7	6190.6	5864.9	5632.6	5497.3	5486.3	5283.8	4934.9
37.5°	7442.0	7442.0	7339.6	7159.1	6931.3	6524.1	6170.8	5956.2	5921.0	5656.9	5247.5
40°	8040.7	8004.3	8023.1	7947.1	7686.3	7253.8	6768.4	6457.0	6409.6	6092.7	5579.8
42.5°	8380.7	8368.6	8480.9	8565.6	8458.9	8113.3	7426.6	6999.5	6933.5	6572.5	5962.8
45°	8456.7	8443.5	8643.8	8954.1	9103.8	8961.8	8141.9	7570.7	7490.4	7074.4	6373.3
47.5°	8281.7	8255.3	8549.1	9038.9	9518.7	9768.5	8916.7	8190.3	8073.7	7563.0	6794.8
50°	7755.6	7730.3	8174.9	8825.4	9658.5	10316.6	9757.5	8847.4	8669.1	8086.9	7220.7
52.5°	6612.1	6624.2	7320.9	8214.5	9474.7	10657.8	10481.7	9539.6	9325.0	8622.9	7620.2
55°	5150.6	5177.0	6033.2	7017.1	8739.5	10606.1	10975.8	10252.8	10039.3	9126.9	8033.0
57.5°	3688.0	3804.6	4606.9	5580.9	7327.5	9786.1	11083.7	10930.7	10723.8	9677.2	8436.9
60°	2390.4	2411.3	3236.7	4218.4	5579.8	8329.0	10864.7	11444.7	11282.9	10238.5	8774.7
62.5°	1532.0	1546.3	2049.2	2950.6	4015.9	6162.0	10127.3	11668.1	11618.6	10609.4	9099.4
65°	1125.9	1114.9	1376.8	1950.2	2705.2	3800.2	8695.5	11560.2	11658.2	10841.6	9367.9
67.5°	939.9	924.5	1053.2	1350.4	1993.1	2158.2	6433.8	10859.2	11218.0	10815.2	9564.9
70°	856.2	843.0	921.2	1002.6	1555.1	1445.0	3243.3	9440.6	9993.0	10514.7	9533.0
72.5°	725.3	702.2	808.9	890.3	1209.5	1108.3	1340.5	7251.6	7925.1	9551.7	9084.0
75°	562.4	547.0	638.3	783.6	909.1	865.0	847.4	4403.3	5138.5	7386.9	7947.1
77.5°	445.7	424.8	508.5	610.8	817.7	652.6	617.4	1896.3	2624.8	4715.9	5946.3
80°	335.7	317.0	386.3	483.1	628.4	491.9	399.5	773.7	989.4	2389.3	2990.2
82.5°	238.8	222.3	269.6	354.4	422.6	441.3	245.4	433.6	487.5	921.2	668.0
85°	153.0	143.1	180.5	222.3	268.5	283.9	149.7	226.7	248.7	379.7	278.4
87.5°	83.6	68.2	96.8	103.5	124.4	113.4	71.5	82.5	89.1	137.6	117.8
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°	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6
2.5°	2346.4	2349.7	2360.7	2364.0	2371.7	2381.6	2388.2	2394.8	2394.8	2401.4	2401.4
5°	2378.3	2386.0	2409.1	2421.2	2441.0	2460.8	2472.9	2487.3	2496.1	2500.5	2502.7
7.5°	2439.9	2452.0	2485.1	2506.0	2540.1	2567.6	2586.3	2606.1	2610.5	2622.6	2618.2
10°	2523.6	2537.9	2575.3	2614.9	2655.6	2689.8	2707.4	2721.7	2727.2	2729.4	2723.9
12.5°	2619.3	2640.2	2688.7	2737.1	2780.0	2809.7	2814.1	2810.8	2795.4	2782.2	2782.2
15°	2737.1	2755.8	2809.7	2862.5	2904.4	2909.9	2882.4	2864.7	2846.0	2842.7	2842.7
17.5°	2878.0	2887.9	2937.4	2989.1	2992.4	2973.7	2933.0	2916.5	2898.9	2886.8	2887.9
20°	3041.9	3038.6	3073.9	3095.9	3072.8	3015.5	2953.9	2926.4	2908.8	2894.5	2895.6
22.5°	3237.8	3212.5	3208.1	3202.6	3141.0	3021.0	2937.4	2902.2	2874.7	2854.8	2861.4
25°	3522.9	3426.0	3358.9	3321.5	3182.8	2991.3	2884.6	2806.4	2754.7	2720.6	2733.8
27.5°	3879.5	3716.6	3547.1	3455.7	3182.8	2930.8	2756.9	2630.3	2545.6	2510.4	2528.0
30°	4219.5	4048.9	3799.1	3617.5	3175.1	2831.7	2551.1	2375.0	2275.9	2240.7	2261.6
32.5°	4510.1	4324.1	4066.6	3794.7	3156.4	2671.0	2295.8	2101.0	2005.2	1963.4	1984.3
35°	4779.7	4581.6	4335.1	3989.5	3106.9	2435.5	2015.1	1866.5	1759.8	1692.7	1714.7
37.5°	5056.0	4820.4	4589.3	4165.6	3017.7	2160.4	1799.4	1672.8	1547.4	1457.1	1481.3
40°	5356.4	5074.7	4861.2	4270.2	2871.4	1898.5	1632.1	1516.6	1383.4	1287.7	1306.4
42.5°	5707.5	5379.5	5163.8	4324.1	2671.0	1712.5	1523.2	1409.8	1284.3	1206.2	1221.6
45°	6074.0	5715.2	5440.0	4323.0	2447.6	1625.5	1488.0	1375.7	1237.0	1155.6	1168.8
47.5°	6458.1	6066.3	5678.9	4252.5	2253.9	1637.6	1468.1	1302.0	1149.0	1069.7	1080.7
50°	6843.3	6450.4	5910.0	4120.5	2171.4	1611.2	1394.4	1198.5	1018.0	946.5	950.9
52.5°	7225.1	6858.7	6109.2	3932.3	2087.8	1513.3	1299.8	1064.2	964.1	914.6	914.6
55°	7609.2	7262.6	6326.0	3658.2	1878.6	1398.8	1141.3	1013.6	921.2	876.0	871.6
57.5°	7994.4	7729.2	6531.8	3384.2	1615.6	1257.9	1054.3	952.0	878.2	839.7	833.1
60°	8395.0	8263.0	6744.2	3132.2	1355.9	1077.4	990.5	902.5	827.6	784.7	781.4
62.5°	8807.7	8850.7	6910.4	2807.5	1117.1	967.4	933.3	843.0	770.4	729.7	728.6
65°	9223.8	9417.5	7019.3	2357.4	905.8	862.8	871.6	778.1	704.4	669.1	668.0
67.5°	9537.4	9825.8	6988.5	1784.0	742.9	763.8	794.6	709.9	640.5	613.0	614.1
70°	9572.6	9777.3	6684.8	1221.6	621.8	666.9	708.8	642.7	571.2	551.4	552.5
72.5°	9103.8	9117.0	5838.4	797.9	526.1	585.5	618.5	574.5	505.2	485.3	484.2
75°	7874.5	7539.9	4286.7	526.1	440.2	503.0	533.8	503.0	435.8	440.2	424.8
77.5°	5966.1	5339.9	2602.8	374.2	367.6	422.6	464.4	442.4	385.2	432.5	380.8
80°	3073.9	2889.0	1161.1	279.5	290.5	337.9	381.9	353.3	304.9	290.5	265.2
82.5°	704.4	818.8	457.8	200.3	210.2	243.2	291.6	265.2	219.0	184.9	182.7
85°	246.5	269.6	202.5	125.5	123.3	151.9	198.1	177.2	148.6	118.9	125.5
87.5°	78.1	102.4	75.9	50.6	52.8	68.2	91.3	83.6	69.3	45.1	47.3
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)