

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: P529050

Luminaire Tested: **GALN-SA4A-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12257 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

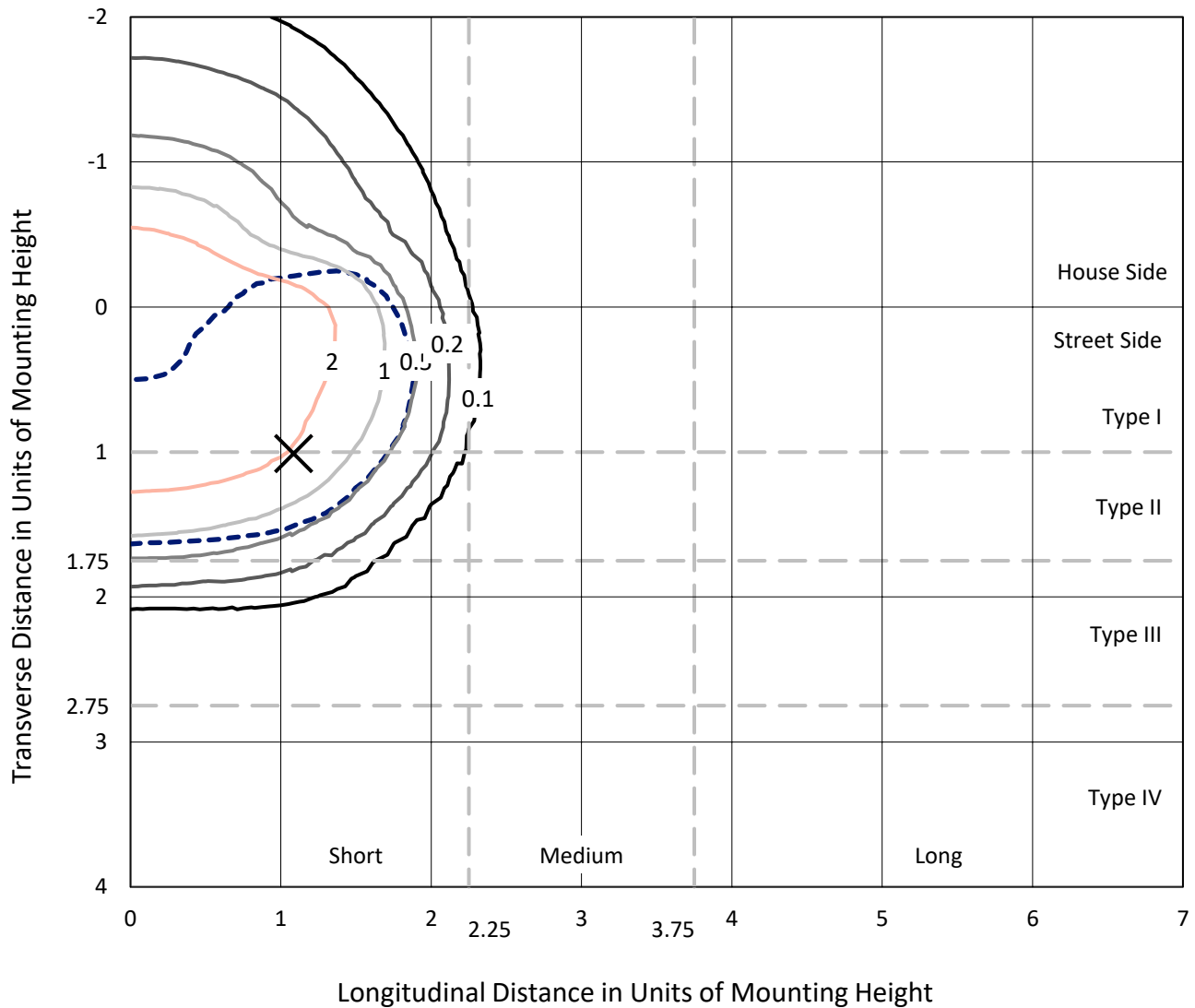
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

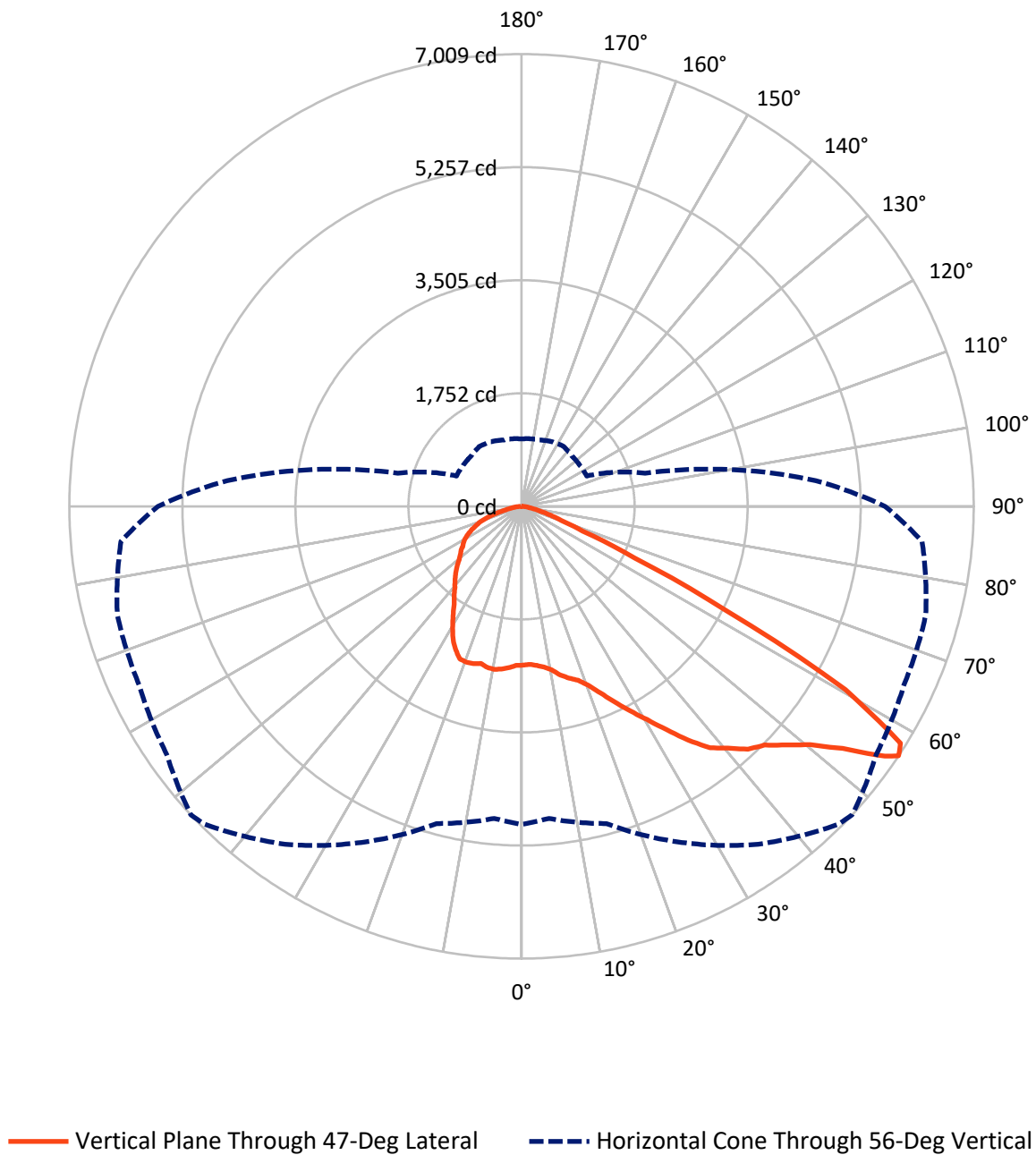
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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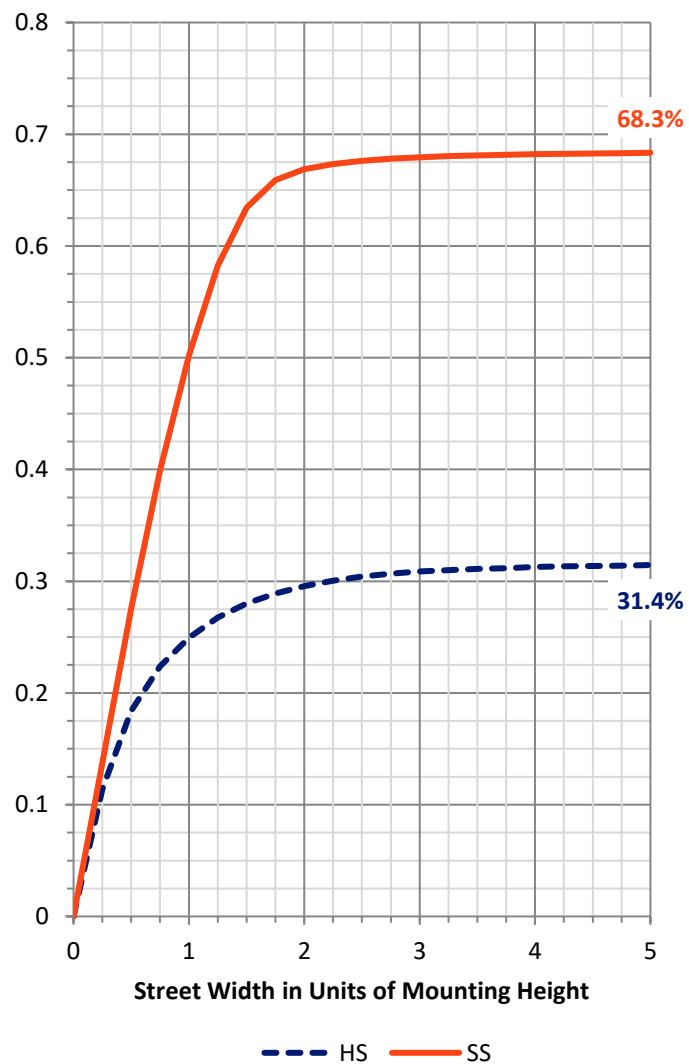
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3884.1	0.0	3884.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	8372.9	0.0	8372.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	12257.0	0.0	12257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.9	2.0
10°-20°	756.7	6.2
20°-30°	1337.7	10.9
30°-40°	2009.2	16.4
40°-50°	2757.5	22.5
50°-60°	3285.2	26.8
60°-70°	1405.9	11.5
70°-80°	397.9	3.2
80°-90°	66.9	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°	12257.0	100.0
0°-180°	12257.0	100.0

Coefficient of Utilization



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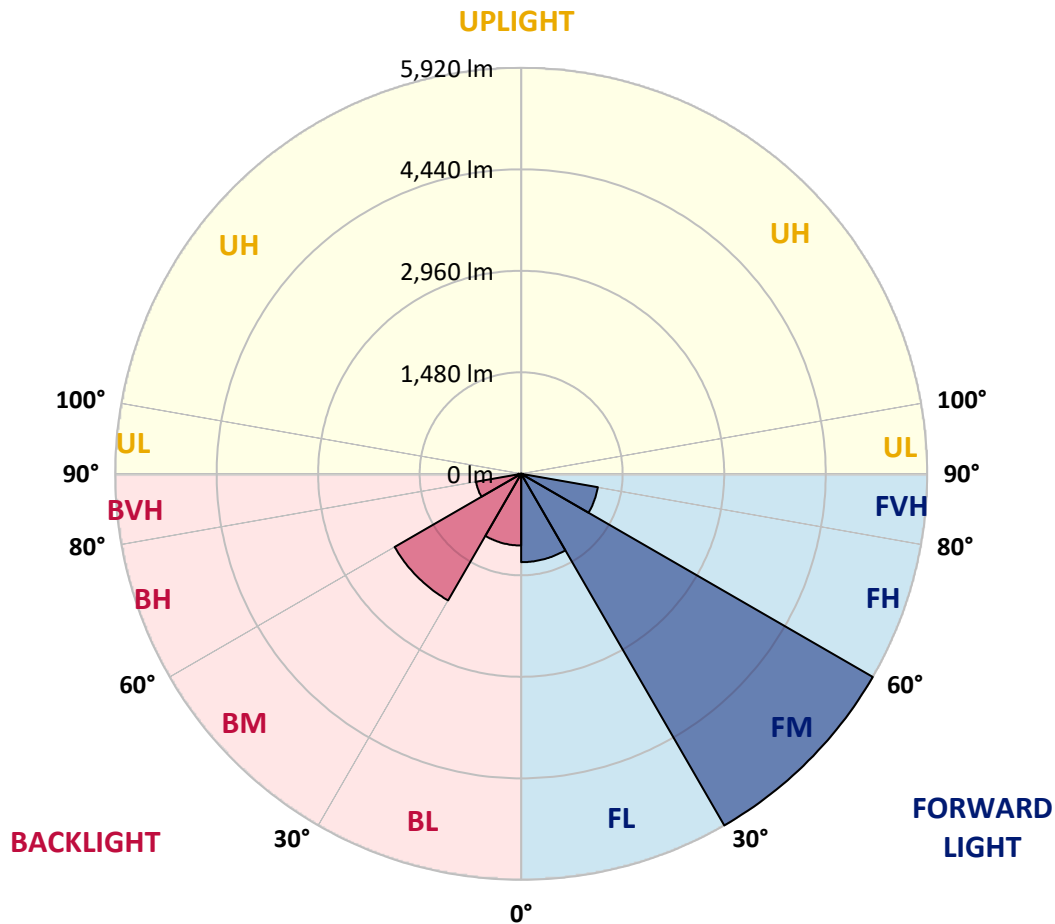
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1288.6	10.5			
FM	(30°-60°)	5920.4	48.3			
FH	(60°-80°)	1135.4	9.3			G1/1800
FVH	(80°-90°)	28.4	0.2			G1/100
BL	(0°-30°)	1045.8	8.5	B3/2500		
BM	(30°-60°)	2131.5	17.4	B2/2500		
BH	(60°-80°)	668.3	5.5	B2/1000		G2/1000
BVH	(80°-90°)	38.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2462.1	2462.1	2462.1	2462.1	2462.1	2462.1	2462.1	2462.1	2462.1	2462.1	2462.1
2.5°	2452.7	2448.0	2444.9	2469.9	2460.5	2462.1	2452.7	2462.1	2468.3	2454.2	2474.6
5°	2448.0	2462.1	2449.6	2457.4	2477.7	2471.4	2477.7	2496.4	2491.8	2487.1	2480.8
7.5°	2491.8	2493.3	2502.7	2505.8	2512.1	2505.8	2515.2	2532.4	2527.7	2501.1	2504.3
10°	2554.3	2557.4	2559.0	2576.2	2587.1	2588.7	2577.7	2562.1	2560.5	2596.5	2571.5
12.5°	2626.2	2618.4	2637.1	2643.4	2655.9	2670.0	2684.0	2651.2	2671.5	2673.1	2643.4
15°	2730.9	2738.7	2716.9	2716.9	2721.6	2723.1	2762.2	2746.6	2743.4	2726.2	2738.7
17.5°	2887.3	2834.1	2832.5	2810.7	2807.5	2820.0	2834.1	2846.6	2888.8	2854.4	2787.2
20°	3001.4	3013.9	2968.5	2942.0	2946.7	2974.8	2960.7	3017.0	3046.7	2990.4	2924.8
22.5°	3203.0	3160.8	3171.8	3112.4	3117.0	3146.7	3145.2	3203.0	3220.2	3131.1	3035.8
25°	3339.0	3328.1	3337.5	3290.6	3296.8	3320.3	3357.8	3453.1	3425.0	3326.5	3106.1
27.5°	3537.5	3515.7	3507.8	3490.7	3484.4	3546.9	3590.7	3692.3	3672.0	3528.2	3231.2
30°	3740.8	3726.7	3734.5	3664.2	3689.2	3822.1	3834.6	3973.7	3964.3	3711.1	3370.3
32.5°	3881.5	3889.3	3903.3	3864.3	3975.2	4081.5	4123.8	4281.6	4289.5	4025.3	3639.2
35°	4108.1	4081.5	4089.4	4134.7	4186.3	4380.1	4448.9	4553.6	4619.3	4355.1	3897.1
37.5°	4250.4	4278.5	4245.7	4317.6	4452.0	4684.9	4747.5	4855.3	4924.1	4680.3	4248.8
40°	4472.3	4427.0	4450.5	4502.1	4639.6	4942.9	4925.7	5036.7	5058.6	4956.9	4577.1
42.5°	4711.5	4689.6	4656.8	4774.0	4889.7	5110.1	5144.5	5092.9	5203.9	5227.4	5046.0
45°	4997.6	5024.2	5028.9	5032.0	5133.6	5325.9	5279.0	5233.6	5361.8	5532.2	5336.8
47.5°	5263.3	5178.9	5239.9	5324.3	5468.1	5469.7	5524.4	5416.5	5552.5	5704.2	5599.4
50°	5352.4	5311.8	5393.1	5552.5	5774.5	5798.0	5804.2	5651.0	5721.4	5841.7	5690.1
52.5°	5318.0	5304.0	5511.9	5758.9	6084.0	6202.8	6234.1	6044.9	6084.0	6029.3	5890.2
55°	5153.9	5196.1	5405.6	5908.9	6407.6	6775.0	6834.4	6595.2	6346.6	6388.8	6235.7
56°	4928.8	4855.3	5089.8	5738.6	6393.5	6961.0	7009.4	6710.9	6542.0	6487.3	6232.5
57.5°	4181.6	4086.2	4394.2	5163.3	6038.7	6890.6	6926.6	6759.3	6509.2	6398.2	5777.6
60°	2448.0	2494.9	2885.7	3561.0	4658.4	5649.4	5769.8	5891.7	5724.5	5227.4	4300.4
62.5°	1181.8	1152.1	1431.9	2041.6	2838.8	3606.3	3570.4	3912.7	4100.3	3714.2	2715.3
65°	619.0	615.9	781.6	1114.6	1560.1	1894.6	1927.4	2111.9	2369.8	1913.4	1378.8
67.5°	454.9	467.4	550.3	783.2	1003.6	1023.9	1019.2	1111.4	1136.5	961.4	847.3
70°	356.4	362.7	423.6	595.6	747.2	669.1	655.0	665.9	739.4	770.7	733.1
72.5°	257.9	264.2	315.8	401.7	467.4	456.5	465.8	526.8	617.5	650.3	611.2
75°	172.0	176.6	204.8	245.4	276.7	298.6	315.8	386.1	470.5	489.3	470.5
77.5°	118.8	123.5	142.3	173.5	176.6	190.7	197.0	229.8	281.4	304.8	292.3
80°	67.2	67.2	76.6	89.1	109.4	128.2	131.3	157.9	181.3	197.0	200.1
82.5°	31.3	32.8	40.6	54.7	71.9	89.1	92.2	109.4	126.6	142.3	146.9
85°	15.6	17.2	23.4	32.8	43.8	53.1	51.6	53.1	56.3	53.1	54.7
87.5°	4.7	4.7	6.3	7.8	6.3	7.8	7.8	9.4	10.9	12.5	14.1
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°	2462.1	2462.1	2462.1	2462.1	2462.1	2462.1	2462.1	2462.1	2462.1	2462.1	2462.1
2.5°	2476.1	2480.8	2449.6	2479.3	2468.3	2466.7	2488.6	2485.5	2493.3	2490.2	2471.4
5°	2477.7	2466.7	2499.6	2469.9	2483.9	2513.6	2493.3	2540.2	2516.8	2532.4	2498.0
7.5°	2526.2	2529.3	2523.0	2535.5	2529.3	2543.3	2532.4	2543.3	2524.6	2526.2	2557.4
10°	2568.4	2559.0	2569.9	2554.3	2565.2	2560.5	2535.5	2527.7	2534.0	2526.2	2546.5
12.5°	2646.5	2629.3	2621.5	2602.7	2590.2	2543.3	2504.3	2482.4	2512.1	2516.8	2507.4
15°	2726.2	2727.8	2691.9	2649.6	2571.5	2501.1	2510.5	2518.3	2518.3	2530.8	2507.4
17.5°	2776.3	2776.3	2743.4	2659.0	2579.3	2538.7	2529.3	2504.3	2482.4	2479.3	2477.7
20°	2863.8	2837.2	2762.2	2657.5	2576.2	2557.4	2487.1	2427.7	2382.3	2366.7	2365.1
22.5°	2963.8	2896.6	2791.9	2660.6	2571.5	2544.9	2413.6	2324.5	2243.2	2208.8	2213.5
25°	3056.1	2948.2	2809.1	2646.5	2554.3	2426.1	2279.2	2155.7	2071.3	2043.1	2029.0
27.5°	3120.2	3002.9	2809.1	2659.0	2490.2	2293.2	2143.2	1985.3	1911.8	1893.0	1896.2
30°	3206.1	3071.7	2857.6	2632.4	2362.0	2121.3	1941.5	1838.3	1794.6	1778.9	1789.9
32.5°	3407.8	3251.5	2924.8	2568.4	2210.4	1949.3	1803.9	1746.1	1682.0	1650.8	1639.8
35°	3626.7	3421.9	2990.4	2460.5	2040.0	1793.0	1702.3	1649.2	1572.6	1538.2	1544.5
37.5°	3936.2	3640.7	2995.1	2282.3	1855.5	1705.5	1622.6	1539.8	1477.2	1424.1	1408.5
40°	4353.5	3939.3	2984.2	2094.7	1707.0	1602.3	1541.3	1438.2	1367.8	1330.3	1338.1
42.5°	4720.9	4289.5	2938.8	1882.1	1572.6	1531.9	1463.2	1361.6	1292.8	1253.7	1250.6
45°	5030.4	4547.4	2852.9	1700.8	1460.0	1453.8	1374.1	1295.9	1241.2	1205.2	1220.9
47.5°	5316.5	4755.3	2723.1	1519.4	1356.9	1369.4	1292.8	1244.3	1209.9	1177.1	1175.5
50°	5419.7	4752.2	2609.0	1369.4	1274.0	1267.8	1264.6	1213.1	1177.1	1149.0	1161.5
52.5°	5591.6	4805.3	2485.5	1266.2	1199.0	1200.5	1211.5	1174.0	1133.3	1116.1	1131.8
55°	5838.6	4813.1	2213.5	1145.8	1136.5	1147.4	1147.4	1122.4	1088.0	1073.9	1066.1
56°	5636.9	4580.2	1985.3	1114.6	1105.2	1105.2	1134.9	1106.8	1064.5	1053.6	1044.2
57.5°	5199.2	4012.8	1661.7	1077.1	1063.0	1084.9	1100.5	1070.8	1031.7	1016.1	1025.5
60°	3586.0	2715.3	1249.0	995.8	995.8	1031.7	1044.2	1000.5	983.3	981.7	969.2
62.5°	2093.1	1582.0	977.0	922.3	925.4	955.1	964.5	939.5	917.6	944.2	956.7
65°	1109.9	944.2	837.9	844.1	845.7	869.1	909.8	908.2	906.7	914.5	916.0
67.5°	803.5	784.7	761.3	755.0	758.2	775.4	816.0	847.3	845.7	826.9	812.9
70°	716.0	689.4	675.3	676.9	664.4	684.7	717.5	737.8	701.9	680.0	670.6
72.5°	595.6	587.8	578.4	580.0	554.9	550.3	512.7	512.7	503.4	497.1	508.0
75°	454.9	451.8	456.5	448.6	422.1	393.9	372.0	351.7	320.5	308.0	301.7
77.5°	287.6	297.0	308.0	290.8	279.8	259.5	237.6	217.3	192.3	178.2	178.2
80°	195.4	203.2	211.0	207.9	195.4	176.6	159.4	137.6	120.4	109.4	107.9
82.5°	148.5	154.8	165.7	153.2	140.7	125.1	111.0	95.4	79.7	67.2	67.2
85°	53.1	61.0	67.2	73.5	78.2	79.7	68.8	56.3	45.3	36.0	34.4
87.5°	14.1	15.6	17.2	15.6	15.6	15.6	17.2	15.6	14.1	10.9	10.9
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)