

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: P942272

Luminaire Tested: **GALN-SB6A-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6A-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18758 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

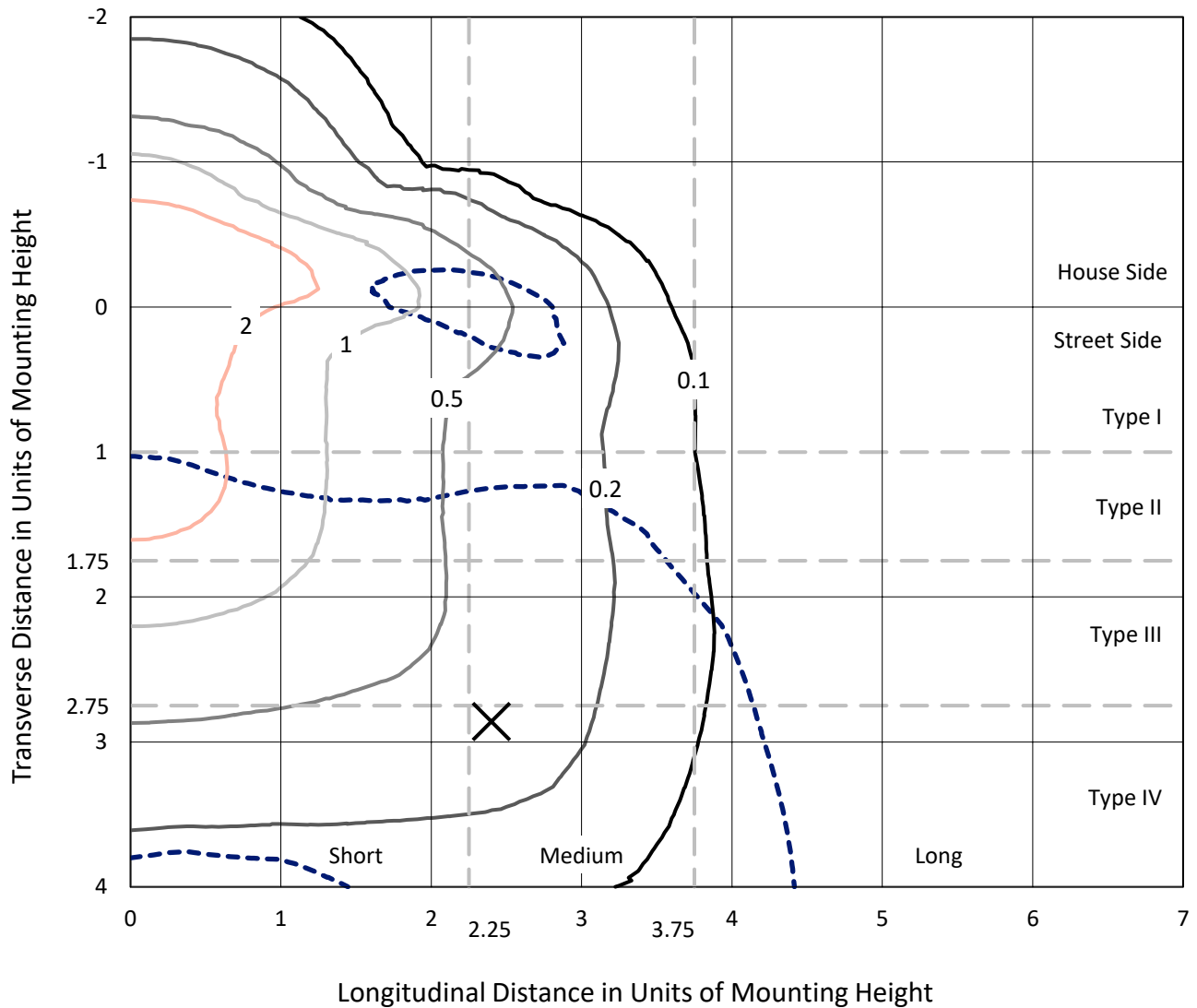
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

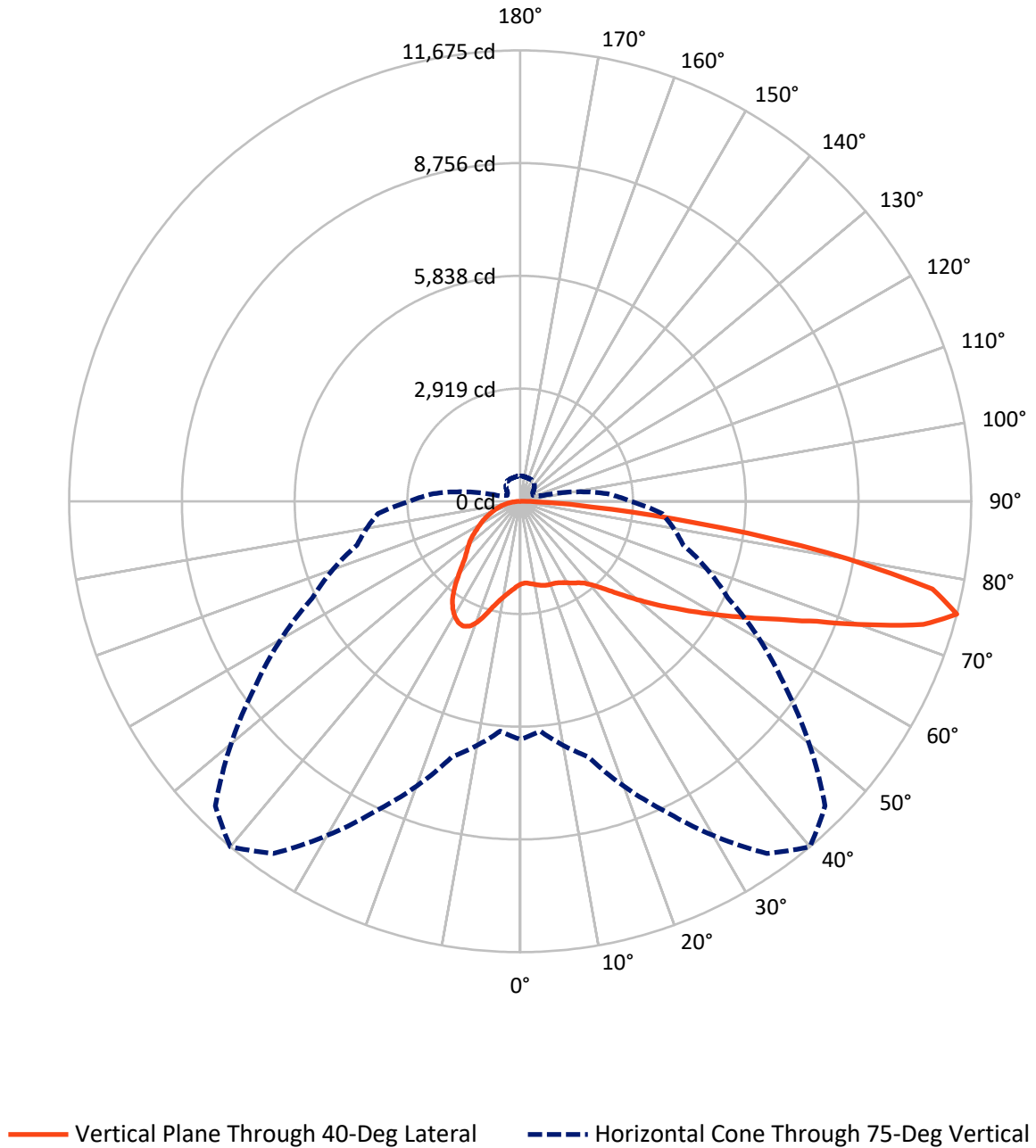
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5811.9	0.0	5811.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	12946.1	0.0	12946.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	18758.0	0.0	18758.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.1	1.1
10°-20°	718.9	3.8
20°-30°	1312.6	7.0
30°-40°	1861.6	9.9
40°-50°	2513.8	13.4
50°-60°	3381.7	18.0
60°-70°	4292.1	22.9
70°-80°	3895.4	20.8
80°-90°	567.8	3.0
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°	18758.0	100.0
0°-180°	18758.0	100.0



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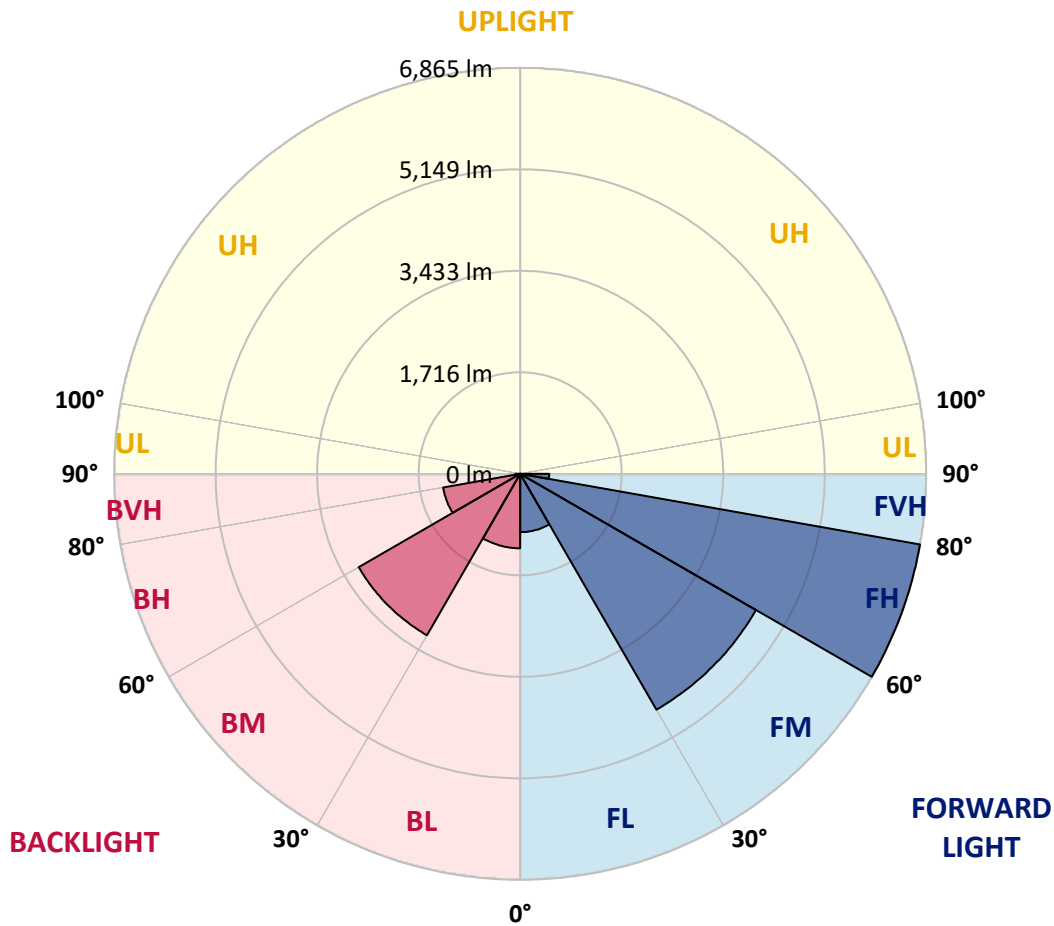
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	986.7	5.3			
FM (30°-60°)	4604.7	24.5			
FH (60°-80°)	6865.1	36.6			G3/7500
FVH (80°-90°)	489.6	2.6			G3/500
BL (0°-30°)	1258.9	6.7	B3/2500		
BM (30°-60°)	3152.4	16.8	B3/5000		
BH (60°-80°)	1322.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	78.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0
2.5°	2112.2	2124.1	2121.1	2117.1	2117.1	2117.1	2117.1	2124.1	2131.1	2138.0
5°	2134.1	2146.0	2140.0	2135.1	2131.1	2131.1	2127.1	2126.1	2130.1	2139.0
7.5°	2176.8	2188.8	2179.8	2170.9	2162.9	2158.9	2155.0	2149.0	2146.0	2151.0
10°	2224.6	2236.5	2225.6	2209.7	2196.7	2191.8	2187.8	2181.8	2177.8	2180.8
12.5°	2272.3	2284.3	2269.4	2247.5	2230.6	2227.6	2222.6	2220.6	2219.6	2218.6
15°	2317.1	2327.1	2308.2	2282.3	2264.4	2259.4	2254.4	2257.4	2262.4	2268.4
17.5°	2351.9	2361.9	2334.0	2300.2	2283.3	2281.3	2278.3	2288.3	2302.2	2317.1
20°	2383.8	2393.7	2357.9	2312.1	2292.2	2292.2	2293.2	2314.1	2334.0	2355.9
22.5°	2428.5	2436.5	2392.7	2330.1	2301.2	2303.2	2311.2	2332.0	2356.9	2386.8
25°	2495.2	2501.2	2447.5	2363.9	2331.0	2337.0	2344.0	2353.9	2377.8	2412.6
27.5°	2602.7	2607.6	2537.0	2423.6	2373.8	2383.8	2393.7	2386.8	2397.7	2427.6
30°	2753.9	2756.9	2667.3	2517.1	2446.5	2451.4	2453.4	2424.6	2403.7	2427.6
32.5°	2933.0	2932.0	2825.5	2630.5	2529.0	2524.1	2507.1	2450.4	2401.7	2422.6
35°	3210.5	3199.6	3062.3	2789.7	2622.6	2591.7	2551.9	2479.3	2411.6	2417.6
37.5°	3670.2	3636.4	3446.3	3050.4	2761.8	2683.2	2624.5	2526.0	2433.5	2415.6
40°	4188.5	4145.7	3936.8	3407.5	2970.8	2844.4	2749.9	2592.7	2469.3	2424.6
42.5°	4803.4	4742.7	4517.8	3828.4	3235.4	3052.4	2910.1	2677.3	2522.1	2453.4
45°	5558.5	5477.9	5159.5	4302.9	3568.7	3325.0	3134.9	2805.6	2602.7	2509.1
47.5°	6321.6	6341.5	5888.8	4846.2	3968.7	3661.2	3416.5	2998.6	2720.1	2598.7
50°	7132.4	7146.4	6614.1	5448.1	4422.3	4041.3	3732.9	3214.5	2883.2	2726.0
52.5°	7765.2	7767.2	7272.7	6077.8	4894.9	4459.1	4074.1	3461.3	3072.2	2895.2
55°	8161.2	8156.2	7734.3	6673.8	5438.1	4897.9	4452.2	3741.8	3303.1	3094.1
57.5°	8448.7	8433.8	8052.7	7186.2	6017.1	5416.2	4880.0	4060.2	3575.7	3330.9
60°	8558.1	8549.2	8268.6	7628.9	6626.0	5989.3	5373.4	4416.4	3885.1	3610.5
62.5°	8599.9	8616.8	8480.5	8057.7	7277.7	6624.0	5915.7	4842.2	4233.3	3926.9
65°	8747.2	8778.0	8750.1	8618.8	8013.9	7367.2	6635.0	5348.6	4613.3	4266.1
67.5°	9038.7	9069.5	9081.4	9290.4	8913.3	8293.5	7532.4	5979.3	5058.1	4618.3
70°	9031.7	9022.7	9233.7	9824.6	10039.5	9575.9	8742.2	6755.4	5588.3	4910.8
72.5°	8220.9	8149.2	8647.7	9818.7	10976.7	10915.0	10219.6	7756.2	6046.0	4946.6
75°	6167.4	5976.4	6856.8	8848.6	11132.9	11675.1	11158.8	8377.0	5937.6	4370.6
77.5°	2637.5	2445.5	3483.1	6550.4	9963.9	10914.0	10297.2	7308.5	4739.7	2890.2
80°	690.5	689.5	1052.6	2969.8	6776.3	8059.7	7070.7	4719.8	2708.1	1032.7
82.5°	285.5	278.6	387.0	1155.1	3311.0	4522.8	3691.1	2105.2	978.0	279.6
85°	106.5	105.5	188.0	399.0	1168.0	1865.4	1350.1	538.2	243.8	136.3
87.5°	29.8	28.9	40.8	138.3	284.5	431.8	230.8	88.5	68.6	53.7
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2145.0	0°	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0
2149.0	2.5°	2152.0	2156.9	2165.9	2172.9	2181.8	2191.8	2205.7	2214.6	2223.6	2229.6
2154.0	5°	2160.9	2171.9	2194.7	2217.6	2244.5	2269.4	2298.2	2319.1	2336.0	2341.0
2171.9	7.5°	2180.8	2198.7	2237.5	2276.3	2319.1	2359.9	2401.7	2437.5	2466.4	2477.3
2203.7	10°	2215.6	2239.5	2294.2	2349.0	2405.7	2468.3	2522.1	2573.8	2614.6	2631.5
2241.5	12.5°	2259.4	2289.3	2360.9	2436.5	2515.1	2601.7	2671.3	2735.0	2785.7	2808.6
2294.2	15°	2316.1	2354.9	2446.5	2547.9	2663.3	2783.7	2872.3	2942.9	2999.6	3027.5
2349.0	17.5°	2377.8	2429.5	2545.0	2698.2	2863.3	3021.5	3125.0	3176.7	3235.4	3262.3
2399.7	20°	2437.5	2501.2	2666.3	2889.2	3109.1	3277.2	3360.8	3374.7	3378.7	3381.7
2447.5	22.5°	2499.2	2584.7	2818.5	3130.0	3365.7	3482.1	3494.1	3434.4	3350.8	3312.0
2494.2	25°	2566.8	2680.3	3017.5	3395.6	3586.6	3600.5	3509.0	3363.8	3205.6	3132.9
2532.0	27.5°	2632.5	2790.7	3256.3	3649.3	3745.8	3623.4	3426.4	3220.5	3029.5	2952.9
2558.9	30°	2698.2	2917.0	3520.0	3871.2	3818.4	3566.7	3296.1	3066.3	2874.3	2793.7
2582.8	32.5°	2764.8	3064.3	3823.4	4031.3	3805.5	3446.3	3133.9	2893.2	2724.0	2639.5
2603.7	35°	2840.4	3245.4	4110.9	4118.9	3718.9	3269.2	2920.0	2686.2	2539.0	2471.3
2628.5	37.5°	2938.9	3475.2	4364.6	4140.8	3567.7	3009.6	2654.4	2441.5	2320.1	2289.3
2665.3	40°	3061.3	3751.8	4558.6	4105.9	3343.9	2694.2	2363.9	2193.8	2125.1	2132.1
2715.1	42.5°	3220.5	4061.2	4694.9	4016.4	3032.5	2368.9	2109.2	2033.6	2066.4	2094.3
2789.7	45°	3427.4	4382.5	4779.5	3864.2	2680.3	2093.3	1959.0	1976.9	2001.7	2004.7
2910.1	47.5°	3692.1	4707.9	4835.2	3634.4	2321.1	1899.3	1863.4	1867.4	1862.5	1841.6
3090.2	50°	4022.4	5024.2	4885.0	3329.9	2015.7	1777.9	1730.1	1716.2	1647.6	1579.9
3329.9	52.5°	4398.4	5314.8	4905.8	2951.9	1777.9	1676.4	1598.8	1511.3	1382.9	1362.0
3631.4	55°	4816.3	5583.4	4852.1	2487.2	1577.9	1546.1	1428.7	1323.2	1309.3	1291.4
4028.3	57.5°	5315.7	5872.9	4742.7	1968.9	1373.0	1393.9	1279.4	1291.4	1266.5	1238.6
4538.7	60°	5861.9	6172.4	4550.7	1496.3	1161.0	1203.8	1240.6	1239.6	1232.7	1209.8
5077.0	62.5°	6353.4	6369.3	4172.6	1146.1	975.0	1056.6	1157.1	1156.1	1150.1	1137.2
5639.1	65°	6645.9	6339.5	3541.8	902.4	821.8	935.2	1043.6	1051.6	1052.6	1051.6
6061.9	67.5°	6594.2	5990.3	2676.3	718.3	695.4	811.8	931.2	942.2	950.1	952.1
6115.6	70°	6009.2	5223.2	1745.1	573.1	583.0	703.4	824.8	835.7	842.7	850.6
5306.8	72.5°	4684.0	3840.3	998.9	463.6	484.5	609.9	719.3	732.2	736.2	751.1
3693.1	75°	2854.4	2258.4	539.2	365.1	398.0	521.3	614.8	629.8	636.7	654.6
1813.7	77.5°	1357.0	978.0	307.4	284.5	320.4	425.8	519.3	536.3	517.3	527.3
500.4	80°	458.6	363.1	194.0	216.9	244.7	332.3	415.9	432.8	393.0	391.0
166.1	82.5°	160.2	147.2	123.4	144.3	158.2	237.8	314.4	336.3	292.5	291.5
74.6	85°	62.7	59.7	68.6	78.6	94.5	146.3	206.9	217.9	180.1	145.3
21.9	87.5°	12.9	13.9	16.9	17.9	28.9	50.7	74.6	91.5	72.6	61.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
2145.0
2225.6
2343.0
2478.3
2632.5
2808.6
3025.5
3261.3
3389.6
3323.0
3143.9
2961.8
2802.6
2650.4
2486.3
2311.2
2155.9
2120.1
2024.6
1857.5
1588.9
1369.0
1294.4
1233.7
1201.8
1132.2
1051.6
954.1
854.6
757.1
656.6
519.3
387.0
277.6
143.3
56.7
0.0

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