

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: P949592

Luminaire Tested: **GALN-SB4B-750-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949592
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-750-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24196 lumens
Efficiency: N/A
Efficacy: 164.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

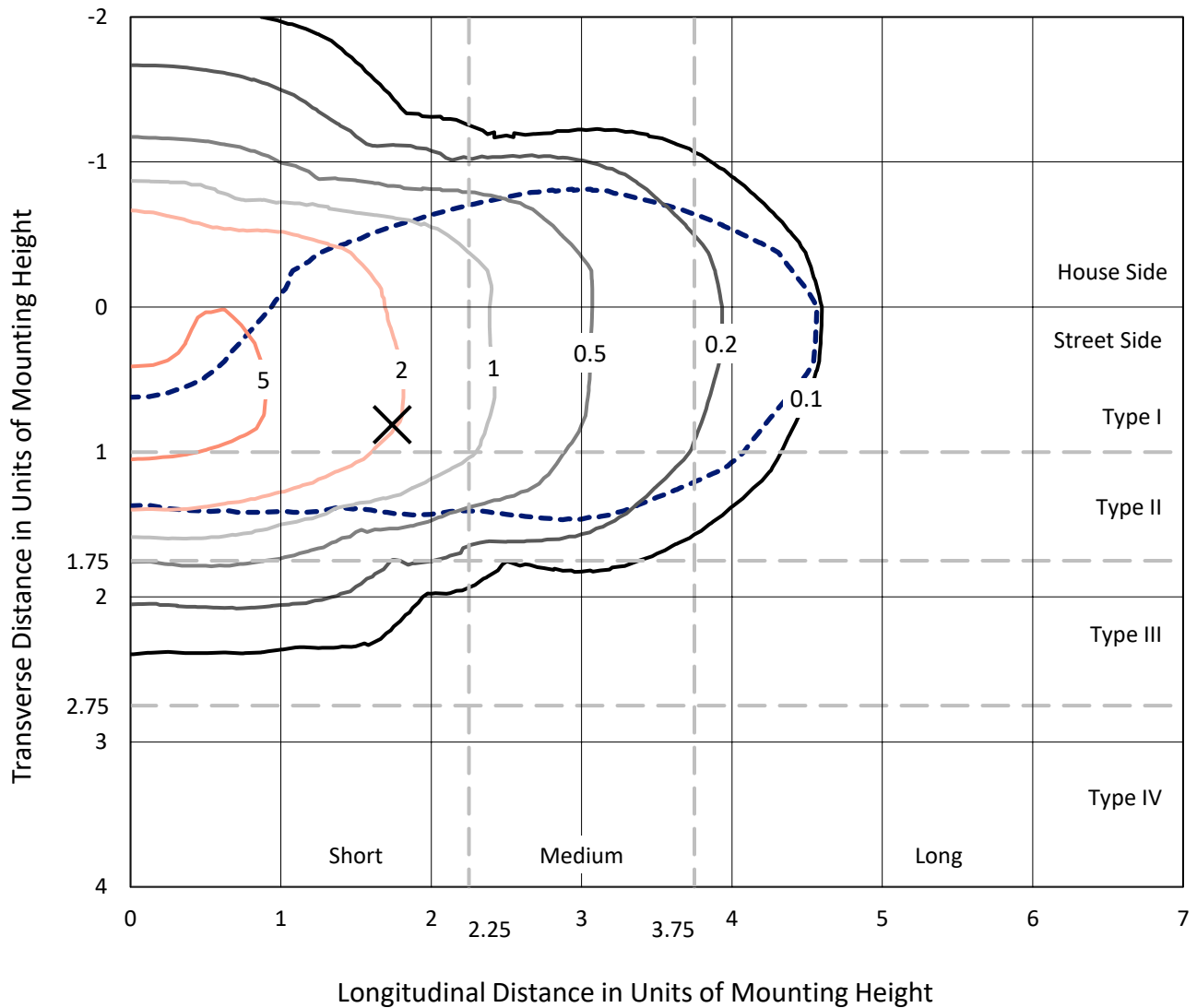
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

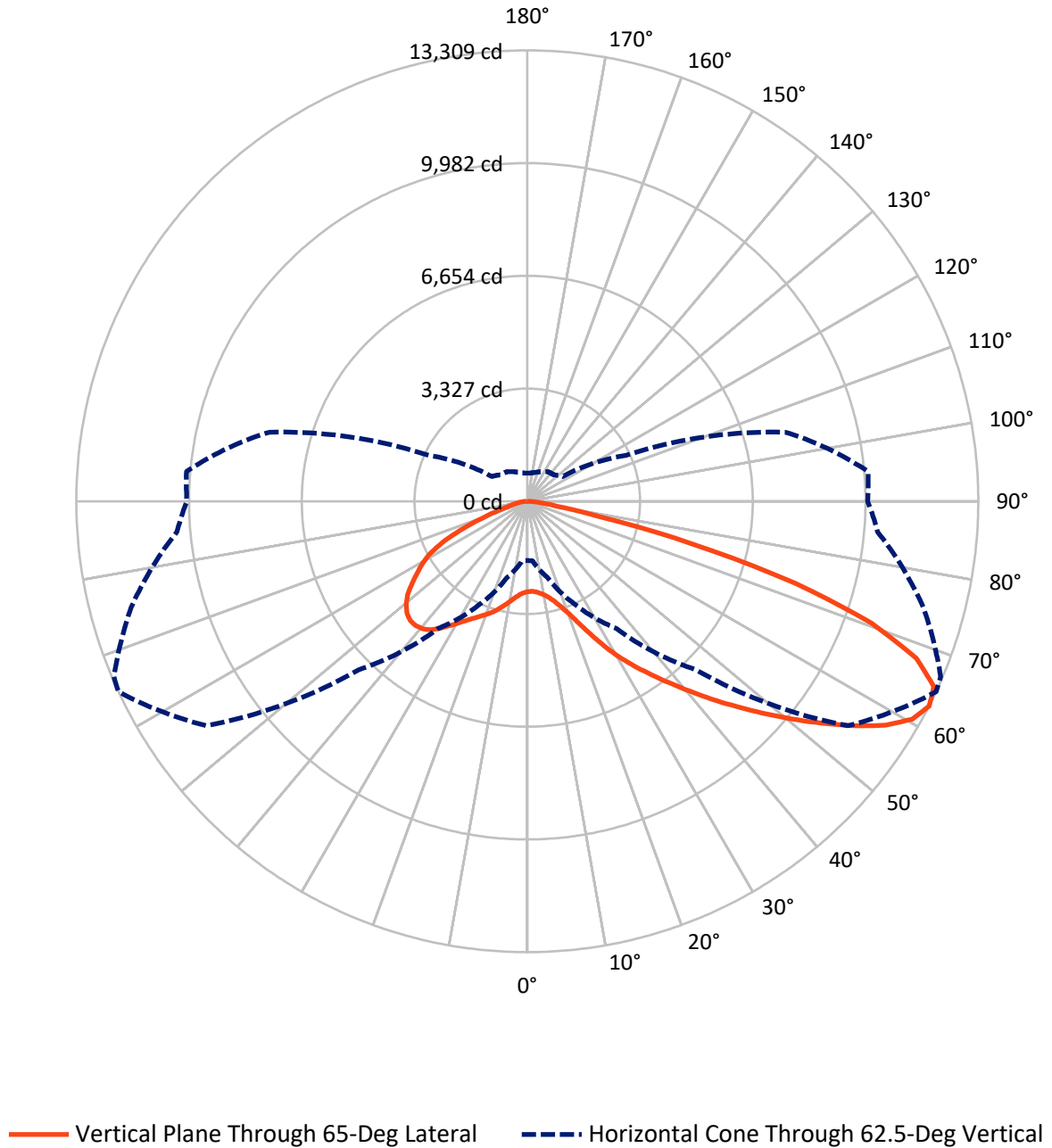
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	7635.2	0.0	7635.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	16560.8	0.0	16560.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	24196.0	0.0	24196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.8	1.1
10°-20°	901.4	3.7
20°-30°	1827.8	7.6
30°-40°	3162.9	13.1
40°-50°	4786.5	19.8
50°-60°	5611.8	23.2
60°-70°	4704.9	19.4
70°-80°	2597.5	10.7
80°-90°	337.4	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°	24196.0	100.0
0°-180°	24196.0	100.0

Coefficient of Utilization



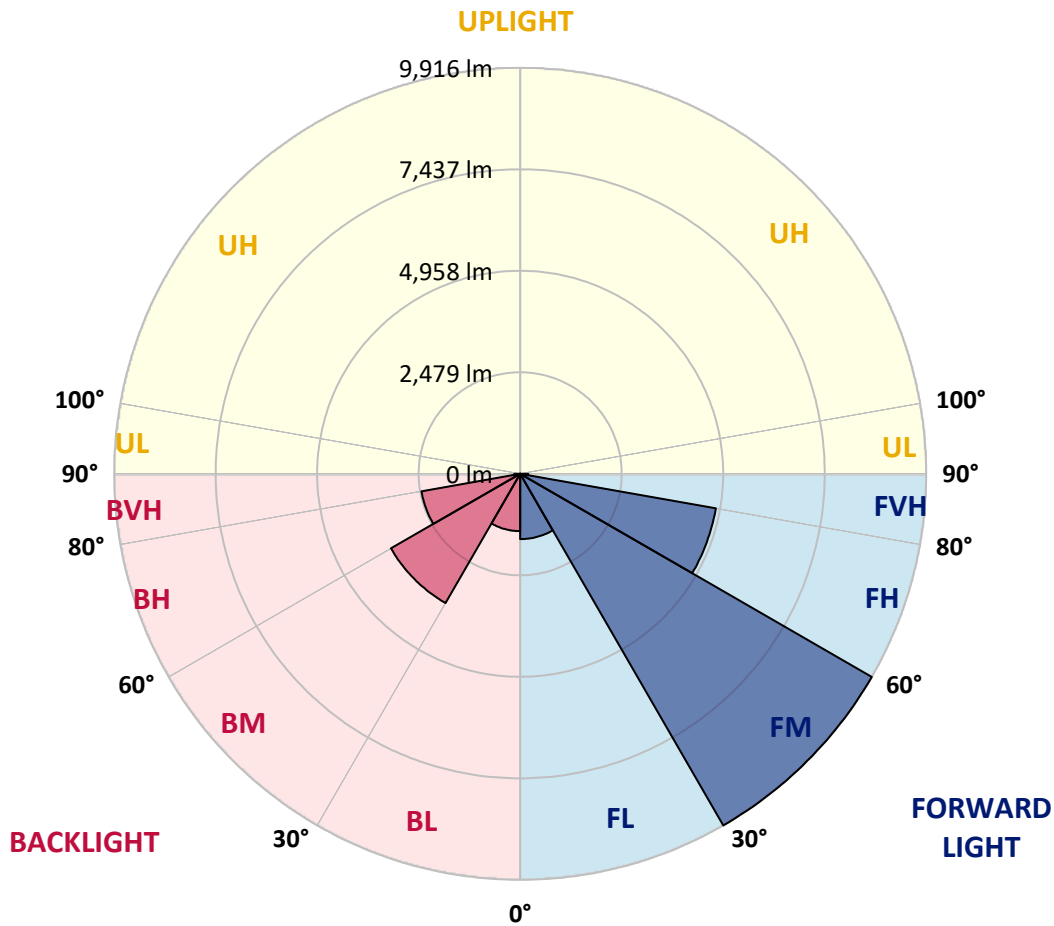
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1594.8	6.6			
FM (30°-60°)	9916.3	41.0			
FH (60°-80°)	4853.0	20.1			G2/5000
FVH (80°-90°)	196.6	0.8			G2/225
BL (0°-30°)	1400.2	5.8	B3/2500		
BM (30°-60°)	3644.9	15.1	B3/5000		
BH (60°-80°)	2449.3	10.1	B3/2500		G3/2500
BVH (80°-90°)	140.8	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°
0°	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3
2.5°	2648.7	2641.2	2647.5	2647.5	2650.0	2648.7	2657.5	2660.0	2663.8	2671.3
5°	2622.4	2621.1	2632.4	2642.4	2652.5	2661.3	2672.6	2688.9	2691.4	2700.2
7.5°	2613.6	2606.0	2623.6	2636.2	2660.0	2681.4	2711.5	2739.1	2750.4	2754.2
10°	2681.4	2668.8	2685.1	2692.7	2712.7	2734.1	2769.2	2813.2	2825.7	2840.8
12.5°	2796.8	2783.0	2806.9	2818.2	2837.0	2855.8	2879.7	2922.4	2928.7	2956.3
15°	2955.0	2938.7	2953.8	2967.6	2999.0	3016.5	3040.4	3081.8	3081.8	3103.1
17.5°	3169.7	3148.3	3159.6	3164.7	3184.7	3211.1	3251.3	3287.7	3306.5	3299.0
20°	3489.8	3463.4	3463.4	3438.3	3430.8	3452.1	3504.8	3555.1	3575.1	3536.2
22.5°	3970.6	3932.9	3911.6	3826.2	3792.3	3794.8	3847.5	3909.1	3925.4	3856.3
25°	4581.9	4522.9	4494.0	4368.5	4291.9	4225.4	4266.8	4345.9	4368.5	4283.1
27.5°	5193.2	5197.0	5169.4	5018.8	4892.0	4770.2	4748.9	4831.7	4855.6	4758.9
30°	6050.6	5961.5	5908.8	5728.0	5547.2	5376.5	5288.7	5322.5	5328.8	5213.3
32.5°	6790.0	6767.4	6654.4	6496.3	6264.0	5996.7	5849.8	5795.8	5785.8	5621.3
35°	7632.3	7619.8	7500.5	7312.2	7061.2	6689.6	6424.7	6270.3	6257.8	6026.8
37.5°	8488.5	8488.5	8371.7	8165.8	7906.0	7441.5	7038.6	6793.8	6753.6	6452.3
40°	9171.3	9129.9	9151.3	9064.6	8767.1	8273.8	7720.2	7364.9	7311.0	6949.4
42.5°	9559.2	9545.4	9673.5	9770.1	9648.4	9254.2	8470.9	7983.8	7908.5	7496.8
45°	9645.9	9630.8	9859.3	10213.3	10384.0	10222.1	9286.8	8635.3	8543.7	8069.2
47.5°	9446.3	9416.1	9751.3	10309.9	10857.2	11142.2	10170.6	9342.1	9209.0	8626.5
50°	8846.2	8817.3	9324.5	10066.4	11016.7	11767.3	11129.6	10091.5	9888.1	9224.1
52.5°	7541.9	7555.8	8350.4	9369.7	10807.0	12156.5	11955.6	10881.1	10636.3	9835.4
55°	5874.9	5905.0	6881.7	8003.9	9968.5	12097.5	12519.3	11694.5	11451.0	10410.3
57.5°	4206.6	4339.6	5254.8	6365.7	8357.9	11162.3	12642.3	12467.8	12231.8	11038.0
60°	2726.5	2750.4	3691.9	4811.6	6364.5	9500.2	12392.5	13054.0	12869.5	11678.2
62.5°	1747.4	1763.7	2337.4	3365.5	4580.7	7028.5	11551.4	13308.9	13252.4	12101.3
65°	1284.2	1271.6	1570.4	2224.4	3085.6	4334.6	9918.3	13185.9	13297.6	12366.1
67.5°	1072.0	1054.5	1201.3	1540.3	2273.4	2461.7	7338.6	12386.2	12795.5	12336.0
70°	976.6	961.6	1050.7	1143.6	1773.8	1648.2	3699.4	10768.1	11398.3	11993.3
72.5°	827.3	800.9	922.7	1015.6	1379.6	1264.1	1529.0	8271.3	9039.5	10894.9
75°	641.5	623.9	728.1	893.8	1036.9	986.7	966.6	5022.5	5861.1	8425.7
77.5°	508.4	484.6	580.0	696.7	932.7	744.4	704.2	2162.9	2993.9	5379.0
80°	382.9	361.5	440.6	551.1	716.8	561.1	455.7	882.5	1128.5	2725.3
82.5°	272.4	253.6	307.6	404.2	482.0	503.4	279.9	494.6	556.1	1050.7
85°	174.5	163.2	205.9	253.6	306.3	323.9	170.7	258.6	283.7	433.1
87.5°	95.4	77.8	110.5	118.0	141.9	129.3	81.6	94.1	101.7	156.9
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°
2666.3	0°	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3
2671.3	2.5°	2676.3	2680.1	2692.7	2696.4	2705.2	2716.5	2724.0	2731.6	2731.6	2739.1
2711.5	5°	2712.7	2721.5	2747.9	2761.7	2784.3	2806.9	2820.7	2837.0	2847.1	2852.1
2775.5	7.5°	2783.0	2796.8	2834.5	2858.4	2897.3	2928.7	2950.0	2972.6	2977.6	2991.4
2864.6	10°	2878.4	2894.8	2937.4	2982.6	3029.1	3068.0	3088.1	3104.4	3110.7	3113.2
2978.9	12.5°	2987.7	3011.5	3066.7	3122.0	3170.9	3204.8	3209.8	3206.1	3188.5	3173.4
3119.5	15°	3122.0	3143.3	3204.8	3265.1	3312.8	3319.1	3287.7	3267.6	3246.3	3242.5
3276.4	17.5°	3282.7	3294.0	3350.4	3409.4	3413.2	3391.9	3345.4	3326.6	3306.5	3292.7
3481.0	20°	3469.7	3465.9	3506.1	3531.2	3504.8	3439.6	3369.3	3337.9	3317.8	3301.5
3732.1	22.5°	3693.1	3664.3	3659.3	3653.0	3582.7	3445.8	3350.4	3310.3	3278.9	3256.3
4082.3	25°	4018.3	3907.8	3831.2	3788.5	3630.4	3412.0	3290.2	3201.1	3142.1	3103.1
4510.4	27.5°	4425.0	4239.2	4045.9	3941.7	3630.4	3342.9	3144.6	3000.2	2903.5	2863.4
4924.6	30°	4812.9	4618.3	4333.4	4126.2	3621.6	3229.9	2909.8	2709.0	2596.0	2555.8
5278.6	32.5°	5144.3	4932.1	4638.4	4328.3	3600.3	3046.7	2618.6	2396.4	2287.2	2239.5
5628.8	35°	5451.8	5225.9	4944.7	4550.5	3543.8	2778.0	2298.5	2129.0	2007.3	1930.7
5985.4	37.5°	5766.9	5498.3	5234.7	4751.4	3442.1	2464.2	2052.4	1908.1	1765.0	1662.0
6364.5	40°	6109.6	5788.3	5544.7	4870.6	3275.1	2165.4	1861.6	1729.8	1577.9	1468.7
6801.3	42.5°	6510.1	6136.0	5889.9	4932.1	3046.7	1953.3	1737.4	1608.1	1465.0	1375.8
7269.5	45°	6928.1	6518.9	6205.0	4930.9	2791.8	1854.1	1697.2	1569.1	1411.0	1318.1
7750.3	47.5°	7366.2	6919.3	6477.4	4850.5	2570.9	1867.9	1674.6	1485.0	1310.6	1220.2
8236.1	50°	7805.6	7357.4	6741.1	4699.9	2476.7	1837.8	1590.5	1367.0	1161.2	1079.6
8691.8	52.5°	8241.2	7823.1	6968.3	4485.2	2381.3	1726.1	1482.5	1213.9	1099.7	1043.2
9162.6	55°	8679.3	8283.8	7215.6	4172.7	2142.8	1595.5	1301.8	1156.1	1050.7	999.2
9623.3	57.5°	9118.6	8816.1	7450.3	3860.1	1842.8	1434.8	1202.6	1085.8	1001.7	957.8
10008.6	60°	9575.6	9424.9	7692.6	3572.6	1546.6	1229.0	1129.8	1029.4	944.0	895.0
10379.0	62.5°	10046.3	10095.3	7882.1	3202.3	1274.1	1103.4	1064.5	961.6	878.7	832.3
10685.3	65°	10520.8	10741.8	8006.4	2688.9	1033.1	984.2	994.2	887.5	803.4	763.2
10910.0	67.5°	10878.6	11207.5	7971.3	2034.9	847.3	871.2	906.3	809.7	730.6	699.2
10873.6	70°	10918.8	11152.2	7624.8	1393.4	709.3	760.7	808.4	733.1	651.5	628.9
10361.4	72.5°	10384.0	10399.0	6659.5	910.1	600.0	667.8	705.5	655.3	576.2	553.6
9064.6	75°	8981.8	8600.2	4889.5	600.0	502.1	573.7	608.8	573.7	497.1	502.1
6782.5	77.5°	6805.1	6090.8	2968.8	426.8	419.3	482.0	529.7	504.6	439.4	493.3
3410.7	80°	3506.1	3295.2	1324.4	318.9	331.4	385.4	435.6	403.0	347.7	331.4
762.0	82.5°	803.4	934.0	522.2	228.5	239.8	277.4	332.7	302.5	249.8	210.9
317.6	85°	281.2	307.6	231.0	143.1	140.6	173.2	226.0	202.1	169.5	135.6
134.3	87.5°	89.1	116.7	86.6	57.7	60.3	77.8	104.2	95.4	79.1	51.5
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

180°
2666.3
2739.1
2854.6
2986.4
3106.9
3173.4
3242.5
3294.0
3302.7
3263.8
3118.2
2883.5
2579.7
2263.3
1955.8
1689.7
1490.1
1393.4
1333.1
1232.7
1084.6
1043.2
994.2
950.3
891.3
831.0
762.0
700.5
630.2
552.3
484.6
434.3
302.5
208.4
143.1
54.0
0.0

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