

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: P949718

Luminaire Tested: **GALN-SB4B-850-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949718
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-850-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 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: 21876 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

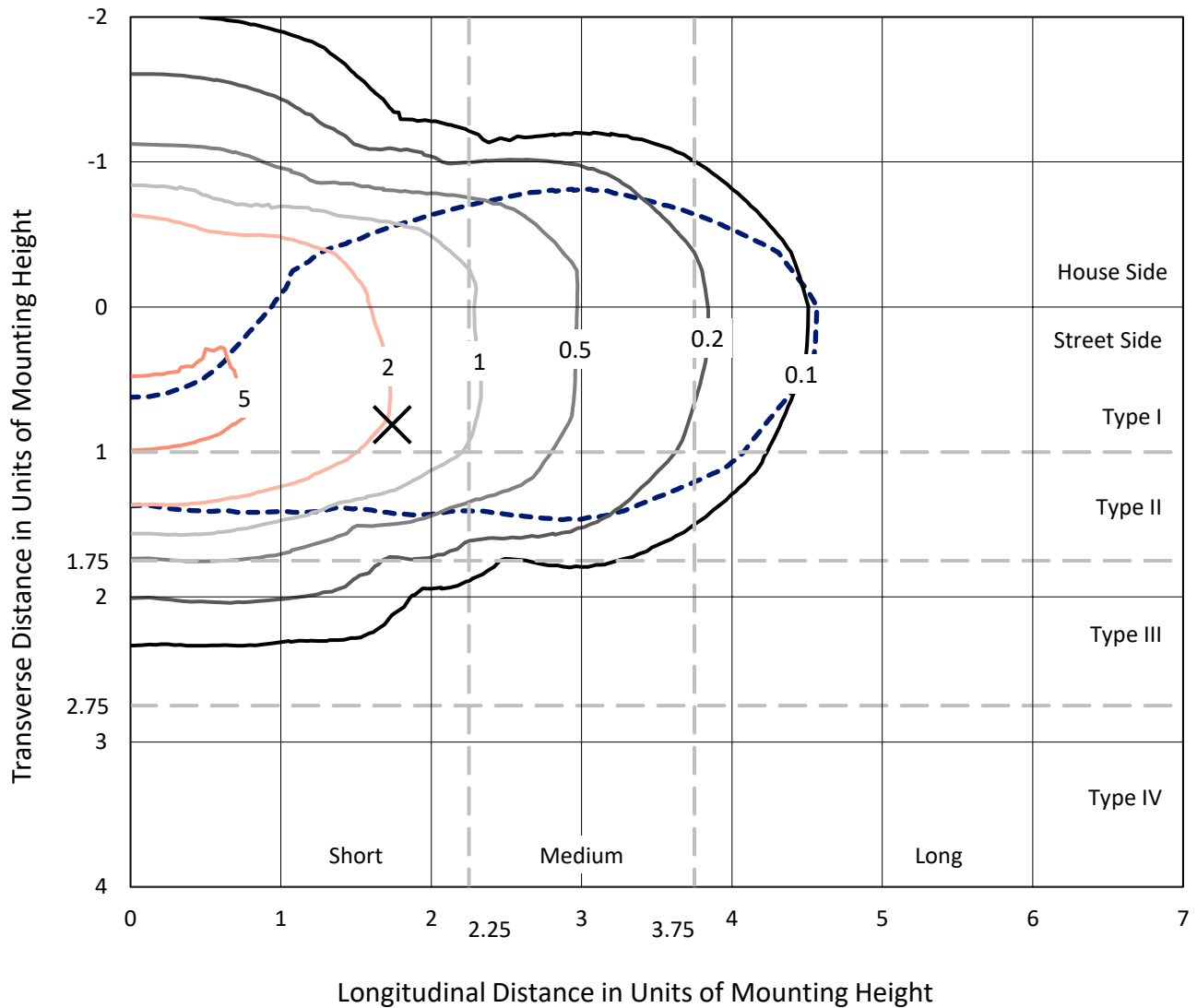
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

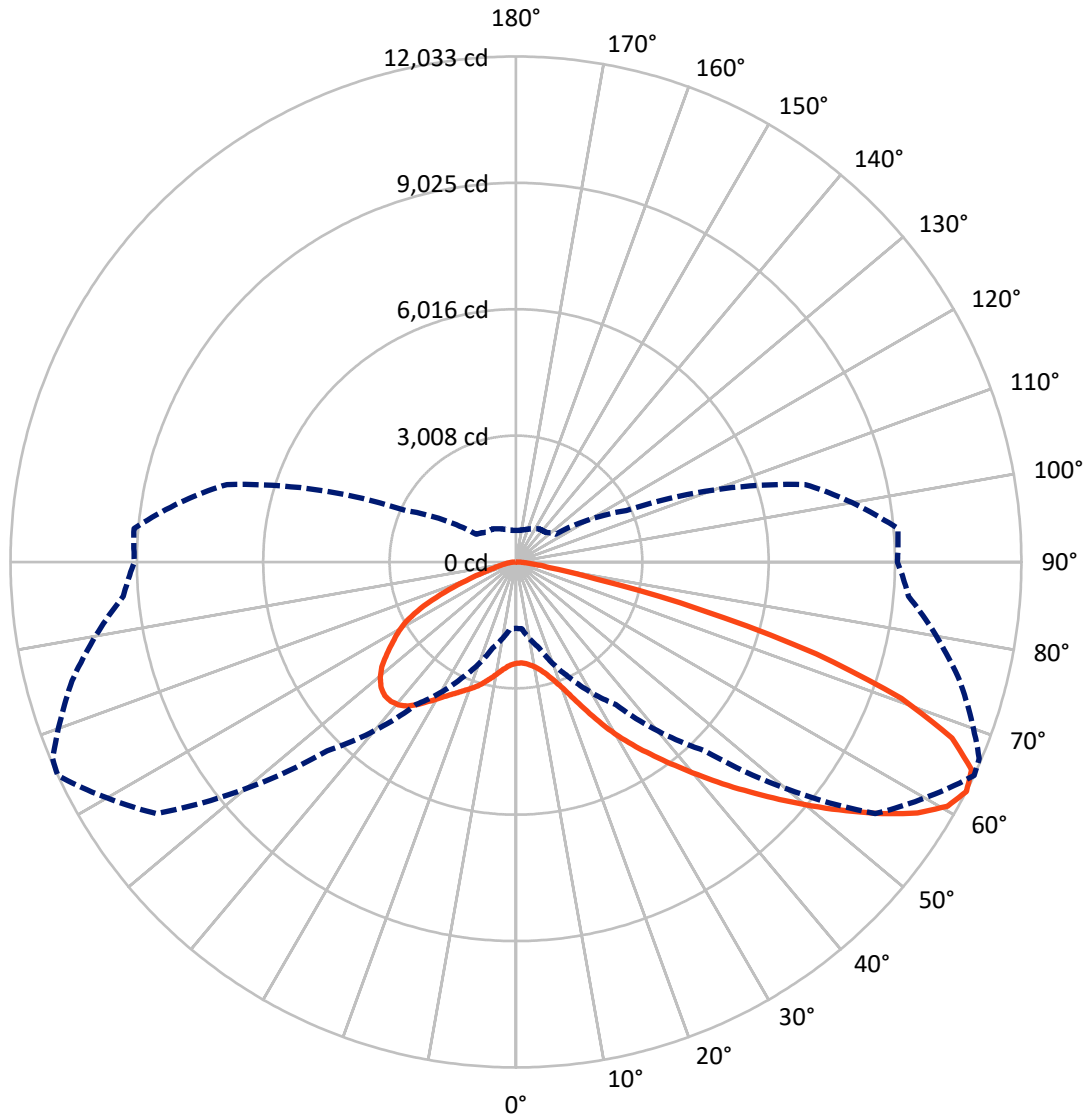
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6903.1	0.0	6903.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	14972.9	0.0	14972.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	21876.0	0.0	21876.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.3	1.1
10°-20°	815.0	3.7
20°-30°	1652.5	7.6
30°-40°	2859.7	13.1
40°-50°	4327.5	19.8
50°-60°	5073.8	23.2
60°-70°	4253.7	19.4
70°-80°	2348.4	10.7
80°-90°	305.1	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°	21876.0	100.0
0°-180°	21876.0	100.0



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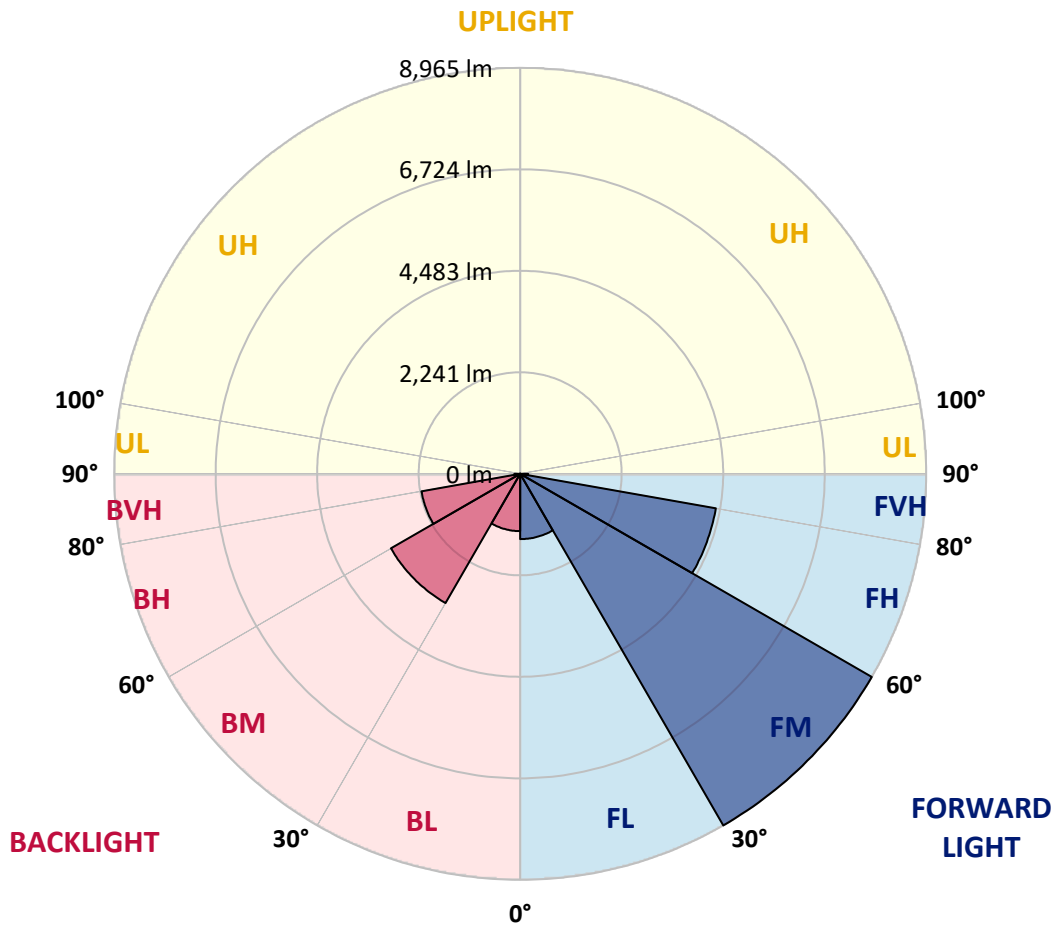
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1441.9	6.6			
FM (30°-60°)	8965.5	41.0			
FH (60°-80°)	4387.7	20.1			G2/5000
FVH (80°-90°)	177.8	0.8			G2/225
BL (0°-30°)	1265.9	5.8	B3/2500		
BM (30°-60°)	3295.5	15.1	B3/5000		
BH (60°-80°)	2214.5	10.1	B3/2500		G3/2500
BVH (80°-90°)	127.3	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°	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6
2.5°	2394.8	2387.9	2393.6	2393.6	2395.9	2394.8	2402.7	2405.0	2408.4	2415.2
5°	2370.9	2369.8	2380.0	2389.1	2398.2	2406.1	2416.3	2431.1	2433.3	2441.3
7.5°	2363.0	2356.2	2372.1	2383.4	2405.0	2424.3	2451.5	2476.5	2486.7	2490.1
10°	2424.3	2412.9	2427.7	2434.5	2452.6	2471.9	2503.7	2543.4	2554.8	2568.4
12.5°	2528.7	2516.2	2537.8	2548.0	2565.0	2582.0	2603.6	2642.2	2647.8	2672.8
15°	2671.7	2656.9	2670.5	2683.0	2711.4	2727.3	2748.9	2786.3	2786.3	2805.6
17.5°	2865.8	2846.5	2856.7	2861.2	2879.4	2903.2	2939.5	2972.4	2989.5	2982.7
20°	3155.2	3131.3	3131.3	3108.6	3101.8	3121.1	3168.8	3214.2	3232.3	3197.2
22.5°	3589.9	3555.8	3536.5	3459.3	3428.7	3431.0	3478.6	3534.2	3549.0	3486.6
25°	4142.6	4089.2	4063.1	3949.6	3880.4	3820.3	3857.7	3929.2	3949.6	3872.5
27.5°	4695.3	4698.7	4673.7	4537.5	4422.9	4312.8	4293.5	4368.4	4390.0	4302.6
30°	5470.5	5389.9	5342.2	5178.8	5015.4	4861.0	4781.6	4812.2	4817.9	4713.5
32.5°	6139.0	6118.5	6016.4	5873.4	5663.4	5421.7	5288.9	5240.1	5231.0	5082.3
35°	6900.5	6889.2	6781.3	6611.1	6384.1	6048.2	5808.7	5669.1	5657.7	5448.9
37.5°	7674.6	7674.6	7569.0	7382.9	7147.9	6728.0	6363.7	6142.4	6106.0	5833.7
40°	8292.0	8254.5	8273.8	8195.5	7926.5	7480.5	6980.0	6658.8	6610.0	6283.1
42.5°	8642.7	8630.2	8745.9	8833.3	8723.2	8366.9	7658.7	7218.3	7150.2	6777.9
45°	8721.0	8707.4	8913.9	9234.0	9388.3	9241.9	8396.4	7807.3	7724.5	7295.5
47.5°	8540.5	8513.3	8816.3	9321.4	9816.2	10073.8	9195.4	8446.3	8326.0	7799.4
50°	7998.0	7971.9	8430.4	9101.2	9960.3	10639.1	10062.5	9123.9	8940.0	8339.6
52.5°	6818.8	6831.3	7549.7	8471.3	9770.8	10990.9	10809.3	9837.8	9616.5	8892.4
55°	5311.6	5338.8	6221.8	7236.5	9012.7	10937.5	11318.9	10573.2	10353.0	9412.2
57.5°	3803.2	3923.5	4750.9	5755.3	7556.5	10092.0	11430.1	11272.4	11059.0	9979.6
60°	2465.1	2486.7	3337.9	4350.3	5754.2	8589.3	11204.3	11802.4	11635.5	10558.5
62.5°	1579.9	1594.6	2113.3	3042.8	4141.4	6354.6	10443.8	12032.8	11981.7	10940.9
65°	1161.1	1149.7	1419.8	2011.1	2789.7	3919.0	8967.3	11921.5	12022.6	11180.4
67.5°	969.2	953.4	1086.2	1392.6	2055.4	2225.6	6634.9	11198.6	11568.6	11153.2
70°	883.0	869.4	950.0	1033.9	1603.7	1490.2	3344.7	9735.6	10305.4	10843.3
72.5°	747.9	724.1	834.2	918.2	1247.3	1142.9	1382.4	7478.2	8172.8	9850.3
75°	580.0	564.1	658.3	808.1	937.5	892.1	873.9	4540.9	5299.1	7617.8
77.5°	459.7	438.1	524.3	629.9	843.3	673.0	636.7	1955.5	2706.9	4863.3
80°	346.2	326.9	398.4	498.2	648.1	507.3	412.0	797.9	1020.3	2464.0
82.5°	246.3	229.3	278.1	365.5	435.8	455.1	253.1	447.2	502.8	950.0
85°	157.8	147.5	186.1	229.3	276.9	292.8	154.4	233.8	256.5	391.6
87.5°	86.3	70.4	99.9	106.7	128.2	116.9	73.8	85.1	91.9	141.9
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°
2410.6	0°	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6
2415.2	2.5°	2419.7	2423.1	2434.5	2437.9	2445.8	2456.0	2462.8	2469.7	2469.7	2476.5
2451.5	5°	2452.6	2460.6	2484.4	2496.9	2517.3	2537.8	2550.2	2565.0	2574.1	2578.6
2509.4	7.5°	2516.2	2528.7	2562.7	2584.3	2619.5	2647.8	2667.1	2687.6	2692.1	2704.6
2590.0	10°	2602.4	2617.2	2655.8	2696.6	2738.6	2773.8	2792.0	2806.7	2812.4	2814.7
2693.2	12.5°	2701.2	2722.8	2772.7	2822.6	2866.9	2897.5	2902.1	2898.7	2882.8	2869.2
2820.4	15°	2822.6	2841.9	2897.5	2952.0	2995.1	3000.8	2972.4	2954.3	2935.0	2931.6
2962.2	17.5°	2967.9	2978.1	3029.2	3082.5	3085.9	3066.6	3024.6	3007.6	2989.5	2977.0
3147.2	20°	3137.0	3133.6	3169.9	3192.6	3168.8	3109.8	3046.2	3017.8	2999.7	2984.9
3374.2	22.5°	3339.0	3312.9	3308.4	3302.7	3239.2	3115.4	3029.2	2992.9	2964.5	2944.1
3690.9	25°	3633.0	3533.1	3463.9	3425.3	3282.3	3084.8	2974.7	2894.1	2840.8	2805.6
4077.9	27.5°	4000.7	3832.7	3658.0	3563.8	3282.3	3022.4	2843.1	2712.5	2625.1	2588.8
4452.4	30°	4351.4	4175.5	3917.9	3730.6	3274.3	2920.2	2630.8	2449.2	2347.1	2310.8
4772.5	32.5°	4651.0	4459.2	4193.7	3913.3	3255.0	2754.5	2367.5	2166.6	2067.9	2024.8
5089.1	35°	4929.1	4724.8	4470.6	4114.2	3204.0	2511.7	2078.1	1924.9	1814.8	1745.6
5411.5	37.5°	5214.0	4971.1	4732.8	4295.8	3112.0	2227.9	1855.6	1725.1	1595.7	1502.7
5754.2	40°	5523.8	5233.3	5013.1	4403.6	2961.1	1957.8	1683.1	1564.0	1426.6	1327.9
6149.2	42.5°	5885.9	5547.7	5325.2	4459.2	2754.5	1766.0	1570.8	1453.9	1324.5	1243.9
6572.5	45°	6263.8	5893.8	5610.1	4458.1	2524.1	1676.3	1534.5	1418.7	1275.7	1191.7
7007.2	47.5°	6659.9	6255.9	5856.4	4385.5	2324.4	1688.8	1514.0	1342.6	1184.9	1103.2
7446.4	50°	7057.1	6652.0	6094.7	4249.3	2239.3	1661.6	1438.0	1236.0	1049.8	976.1
7858.4	52.5°	7451.0	7073.0	6300.1	4055.2	2153.0	1560.6	1340.4	1097.5	994.2	943.1
8284.0	55°	7847.1	7489.6	6523.7	3772.6	1937.4	1442.5	1176.9	1045.3	950.0	903.4
8700.6	57.5°	8244.3	7970.8	6735.9	3490.0	1666.1	1297.3	1087.3	981.7	905.7	866.0
9049.0	60°	8657.4	8521.2	6955.0	3230.1	1398.3	1111.1	1021.5	930.7	853.5	809.2
9383.8	62.5°	9083.0	9127.3	7126.4	2895.3	1152.0	997.6	962.4	869.4	794.5	752.5
9660.7	65°	9512.0	9711.8	7238.7	2431.1	934.1	889.8	898.9	802.4	726.4	690.1
9863.9	67.5°	9835.5	10132.9	7207.0	1839.8	766.1	787.7	819.4	732.0	660.5	632.2
9831.0	70°	9871.8	10082.9	6893.7	1259.8	641.2	687.8	730.9	662.8	589.0	568.6
9367.9	72.5°	9388.3	9402.0	6020.9	822.8	542.5	603.8	637.8	592.4	520.9	500.5
8195.5	75°	8120.6	7775.6	4420.6	542.5	454.0	518.7	550.5	518.7	449.4	454.0
6132.2	77.5°	6152.6	5506.8	2684.2	385.9	379.1	435.8	479.0	456.3	397.2	446.0
3083.7	80°	3169.9	2979.3	1197.4	288.3	299.6	348.4	393.8	364.3	314.4	299.6
688.9	82.5°	726.4	844.4	472.1	206.6	216.8	250.8	300.8	273.5	225.9	190.7
287.1	85°	254.2	278.1	208.8	129.4	127.1	156.6	204.3	182.7	153.2	122.6
121.4	87.5°	80.6	105.6	78.3	52.2	54.5	70.4	94.2	86.3	71.5	46.5
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

<u>180°</u>
2410.6
2476.5
2580.9
2700.1
2809.0
2869.2
2931.6
2978.1
2986.1
2950.9
2819.2
2607.0
2332.3
2046.3
1768.3
1527.6
1347.2
1259.8
1205.3
1114.5
980.6
943.1
898.9
859.2
805.8
751.3
688.9
633.3
569.7
499.4
438.1
392.7
273.5
188.4
129.4
48.8
0.0

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