

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: P940699

Luminaire Tested: **GALN-SB3D-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3D-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28865 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

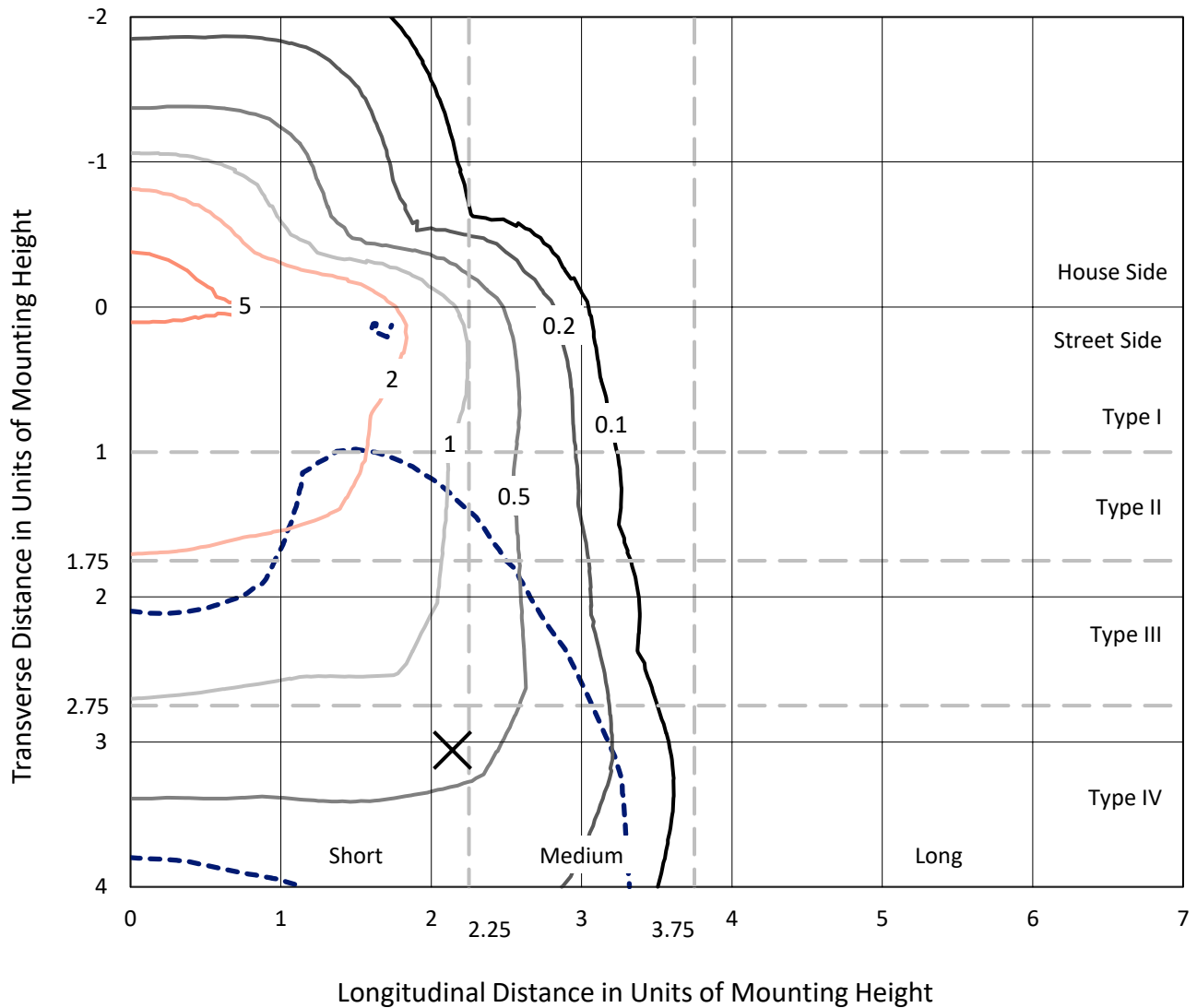
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

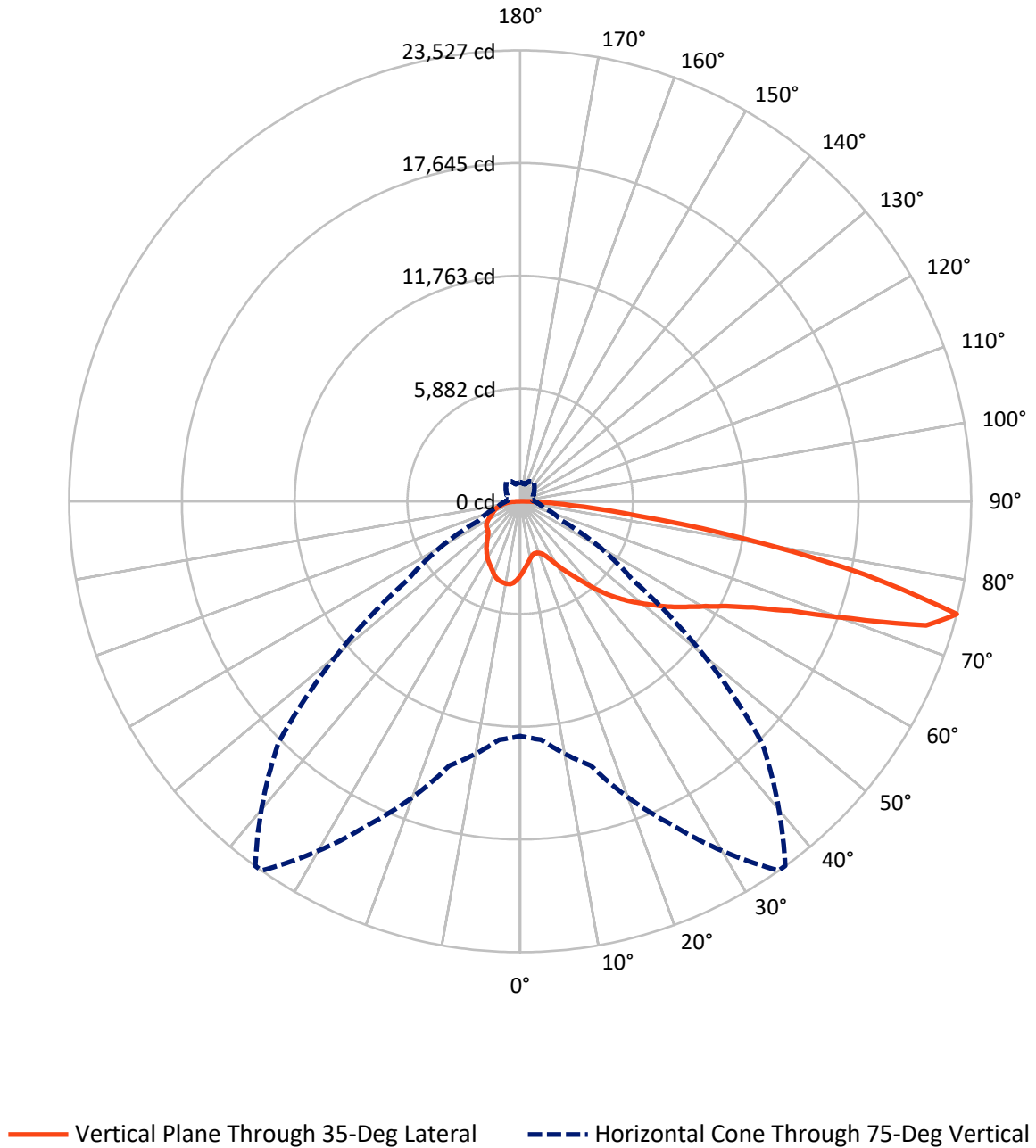
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6869.1	0.0	6869.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	21995.9	0.0	21995.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	28865.0	0.0	28865.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.2	1.3
10°-20°	1050.5	3.6
20°-30°	1764.0	6.1
30°-40°	2741.5	9.5
40°-50°	4069.1	14.1
50°-60°	5617.6	19.5
60°-70°	6815.5	23.6
70°-80°	5632.5	19.5
80°-90°	810.1	2.8
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°	28865.0	100.0
0°-180°	28865.0	100.0



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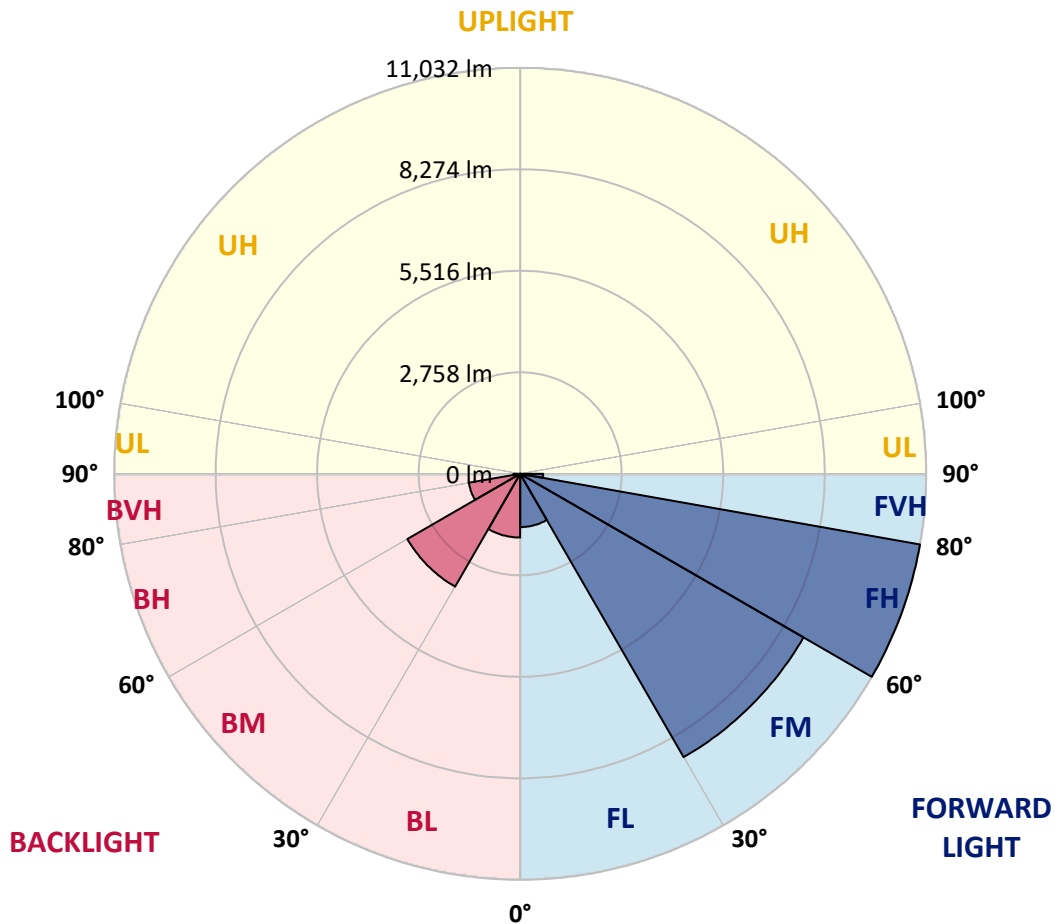
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1447.5	5.0			
FM (30°-60°)	8888.9	30.8			
FH (60°-80°)	11031.8	38.2			G4/12000
FVH (80°-90°)	627.7	2.2			G4/750
BL (0°-30°)	1731.1	6.0	B3/2500		
BM (30°-60°)	3539.4	12.3	B3/5000		
BH (60°-80°)	1416.2	4.9	B3/2500		G3/2500
BVH (80°-90°)	182.4	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3846.5	3846.5	3846.5	3846.5	3846.5	3846.5	3846.5	3846.5	3846.5	3846.5
2.5°	3546.9	3568.7	3578.1	3573.4	3596.8	3593.7	3626.4	3667.0	3723.2	3777.8
5°	3273.8	3297.2	3317.5	3336.2	3381.4	3395.5	3447.0	3525.0	3628.0	3732.5
7.5°	3019.4	3039.7	3070.9	3105.3	3181.7	3195.8	3281.6	3403.3	3546.9	3699.8
10°	2811.9	2832.2	2864.9	2904.0	2999.1	3016.3	3125.5	3287.8	3475.1	3668.6
12.5°	2722.9	2729.2	2747.9	2786.9	2869.6	2880.6	3000.7	3186.4	3404.9	3645.2
15°	2718.3	2730.8	2732.3	2752.6	2821.3	2825.9	2936.7	3120.9	3361.2	3640.5
17.5°	2765.1	2774.4	2760.4	2772.9	2830.6	2838.4	2925.8	3089.6	3347.1	3660.8
20°	2889.9	2897.7	2855.6	2838.4	2880.6	2886.8	2972.6	3109.9	3361.2	3702.9
22.5°	3155.2	3159.9	3056.9	2986.7	2989.8	2992.9	3067.8	3192.6	3415.8	3779.4
25°	3568.7	3565.6	3401.7	3266.0	3188.0	3170.8	3220.7	3326.8	3507.8	3880.8
27.5°	4052.4	4029.0	3865.2	3662.3	3492.2	3467.3	3456.3	3501.6	3638.9	4015.0
30°	4598.6	4576.7	4400.4	4135.1	3899.5	3858.9	3756.0	3732.5	3834.0	4197.6
32.5°	5197.8	5183.7	4973.1	4651.6	4336.4	4289.6	4116.4	4054.0	4133.6	4473.7
35°	5700.2	5687.8	5513.0	5182.2	4796.8	4739.0	4562.7	4492.5	4533.0	4828.0
37.5°	6154.3	6148.1	5998.3	5737.7	5339.8	5269.6	5071.4	5048.0	5040.2	5294.5
40°	6575.6	6560.0	6404.0	6266.7	5971.8	5907.8	5733.0	5712.7	5653.4	5868.8
42.5°	7042.2	7001.6	6775.4	6711.4	6631.8	6578.8	6474.2	6477.3	6346.3	6516.3
45°	7423.0	7399.6	7167.0	7129.6	7215.4	7193.6	7284.1	7307.5	7053.1	7195.1
47.5°	7831.8	7809.9	7613.3	7586.8	7819.3	7825.5	8145.4	8153.2	7742.8	7900.5
50°	8335.8	8304.6	8109.5	8142.3	8402.9	8426.3	9011.5	8958.4	8377.9	8616.7
52.5°	8668.2	8686.9	8644.8	8697.8	9053.6	9075.5	9863.5	9727.7	9006.8	9323.6
55°	8913.2	8950.6	9081.7	9203.4	9740.2	9762.0	10667.1	10459.6	9528.0	9978.9
57.5°	9228.4	9175.3	9420.3	9657.5	10392.5	10450.2	11448.9	11164.9	9989.9	10543.8
60°	9680.9	9643.4	9833.8	10184.9	11122.7	11214.8	12275.9	11800.0	10328.5	10991.7
62.5°	10598.4	10504.8	10534.5	10845.0	12043.4	12165.1	13209.0	12353.9	10497.0	11166.4
65°	11970.0	11809.3	11659.5	11874.9	13340.1	13460.3	14262.3	12789.3	10434.6	10827.8
67.5°	13697.4	13538.3	13354.1	13557.0	15250.1	15345.3	15562.2	13034.3	9943.1	9523.3
70°	15122.1	15062.8	15282.8	16117.7	18300.7	18303.8	17228.7	12831.4	8596.4	6752.0
72.5°	14933.3	14897.4	16056.8	18637.8	22145.6	22062.9	18806.3	11295.9	5790.8	3046.0
75°	12250.9	12483.4	14279.5	18592.5	23526.6	23515.7	17840.4	7181.1	2395.3	1262.4
77.5°	6569.4	6937.7	9270.5	13727.1	18366.2	18642.4	12542.7	2512.3	1028.3	808.3
80°	2142.5	2463.9	3695.1	6989.2	11934.2	11882.7	5375.7	986.2	703.8	572.7
82.5°	909.7	947.2	1650.9	3300.3	6124.7	6029.5	1711.8	566.4	494.7	391.7
85°	355.8	397.9	728.7	1526.1	2652.7	2595.0	617.9	280.9	316.8	255.9
87.5°	117.0	142.0	260.6	522.7	825.5	795.8	151.4	96.7	137.3	117.0
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°
3846.5	0°	3846.5	3846.5	3846.5	3846.5	3846.5	3846.5	3846.5	3846.5	3846.5	3846.5
3857.4	2.5°	3879.2	3904.2	3933.8	3977.5	4015.0	4046.2	4079.0	4099.2	4107.0	4130.5
3863.6	5°	3907.3	3961.9	4035.3	4107.0	4177.3	4219.4	4256.8	4275.6	4292.7	4305.2
3880.8	7.5°	3954.1	4024.3	4139.8	4233.4	4292.7	4327.1	4352.0	4345.8	4352.0	4355.2
3899.5	10°	3994.7	4093.0	4230.3	4319.3	4364.5	4366.1	4359.8	4338.0	4327.1	4328.6
3927.6	12.5°	4043.1	4152.3	4300.5	4375.4	4387.9	4353.6	4327.1	4289.6	4275.6	4269.3
3969.7	15°	4108.6	4233.4	4377.0	4405.1	4373.9	4330.2	4284.9	4224.1	4192.9	4167.9
4041.5	17.5°	4188.2	4325.5	4436.3	4416.0	4348.9	4277.1	4203.8	4111.7	4047.8	4021.2
4139.8	20°	4299.0	4422.3	4481.6	4392.6	4291.2	4181.9	4057.1	3944.8	3885.5	3858.9
4264.7	22.5°	4433.2	4551.8	4525.2	4352.0	4208.5	4033.7	3877.7	3795.0	3765.3	3746.6
4425.4	25°	4593.9	4695.3	4556.5	4292.7	4072.7	3837.1	3716.9	3690.4	3676.4	3662.3
4622.0	27.5°	4803.0	4857.6	4579.9	4205.4	3860.5	3628.0	3584.3	3589.0	3584.3	3560.9
4895.1	30°	5079.2	5068.3	4601.7	4063.4	3617.1	3439.2	3442.3	3462.6	3465.7	3450.1
5275.8	32.5°	5442.8	5332.0	4612.6	3879.2	3384.6	3273.8	3276.9	3298.7	3314.4	3287.8
5773.6	35°	5882.8	5639.4	4595.5	3648.3	3205.1	3116.2	3092.8	3099.0	3103.7	3078.7
6377.5	37.5°	6396.2	5984.2	4519.0	3392.4	3056.9	2961.7	2911.8	2869.6	2844.7	2821.3
7060.9	40°	6959.5	6360.3	4378.6	3142.7	2891.5	2797.8	2722.9	2643.4	2559.1	2527.9
7785.0	42.5°	7549.4	6747.3	4208.5	2904.0	2701.1	2624.6	2545.1	2429.6	2303.2	2239.2
8537.1	45°	8161.0	7143.6	4041.5	2668.3	2506.0	2473.3	2381.2	2242.3	2105.0	2023.9
9290.8	47.5°	8760.2	7518.1	3796.5	2431.1	2323.5	2359.4	2287.6	2159.6	2006.7	1878.8
10038.2	50°	9332.9	7869.2	3395.5	2190.8	2175.2	2325.0	2256.4	2072.2	1897.5	1733.6
10771.6	52.5°	9900.9	8153.2	2882.1	1972.4	2095.7	2315.7	2215.8	2013.0	1799.2	1627.5
11461.3	55°	10383.1	8299.9	2387.5	1785.1	1980.2	2236.1	2167.4	1942.7	1660.3	1477.7
11934.2	57.5°	10657.7	8181.3	1975.5	1601.0	1821.0	2105.0	2084.7	1792.9	1494.9	1354.5
12026.2	60°	10539.1	7700.7	1638.5	1440.3	1669.7	1963.0	1941.2	1644.7	1368.5	1235.9
11533.1	62.5°	9885.3	6784.7	1371.6	1299.8	1532.3	1817.9	1797.6	1530.8	1271.7	1143.8
10223.9	65°	8568.3	5519.2	1164.1	1182.8	1393.5	1643.1	1672.8	1435.6	1195.3	1070.5
7909.8	67.5°	6535.1	3997.8	1001.8	1081.4	1257.7	1471.5	1557.3	1366.9	1131.3	1012.7
4576.7	70°	3724.7	2270.4	864.5	983.1	1137.6	1312.3	1468.4	1312.3	1062.7	964.3
1714.9	72.5°	1412.2	1042.4	747.4	884.8	1022.1	1178.1	1370.1	1226.5	983.1	909.7
886.3	75°	753.7	635.1	628.9	769.3	889.4	1047.0	1246.8	1142.2	923.8	961.2
613.2	77.5°	513.4	449.4	525.9	658.5	744.3	901.9	1115.7	1014.3	800.5	797.4
424.4	80°	355.8	318.3	427.6	530.5	575.8	758.4	973.7	870.7	652.3	608.6
262.2	82.5°	213.8	207.5	319.9	396.3	407.3	585.2	806.7	730.3	533.7	465.0
156.0	85°	117.0	123.3	204.4	232.5	237.2	408.8	632.0	564.9	410.4	344.9
56.2	87.5°	32.8	42.1	74.9	92.1	113.9	212.2	376.1	335.5	206.0	143.6
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>
3846.5
4128.9
4308.3
4359.8
4331.7
4266.2
4175.7
4022.8
3855.8
3749.7
3662.3
3565.6
3457.9
3300.3
3095.9
2836.9
2541.9
2247.0
2017.6
1864.7
1719.6
1608.8
1462.1
1335.7
1217.1
1123.5
1050.2
994.0
951.9
897.2
992.4
735.0
582.0
468.1
348.0
143.6
0.0

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