

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: P948941

Luminaire Tested: **GALN-SB3D-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948941
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-SB3D-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27802 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

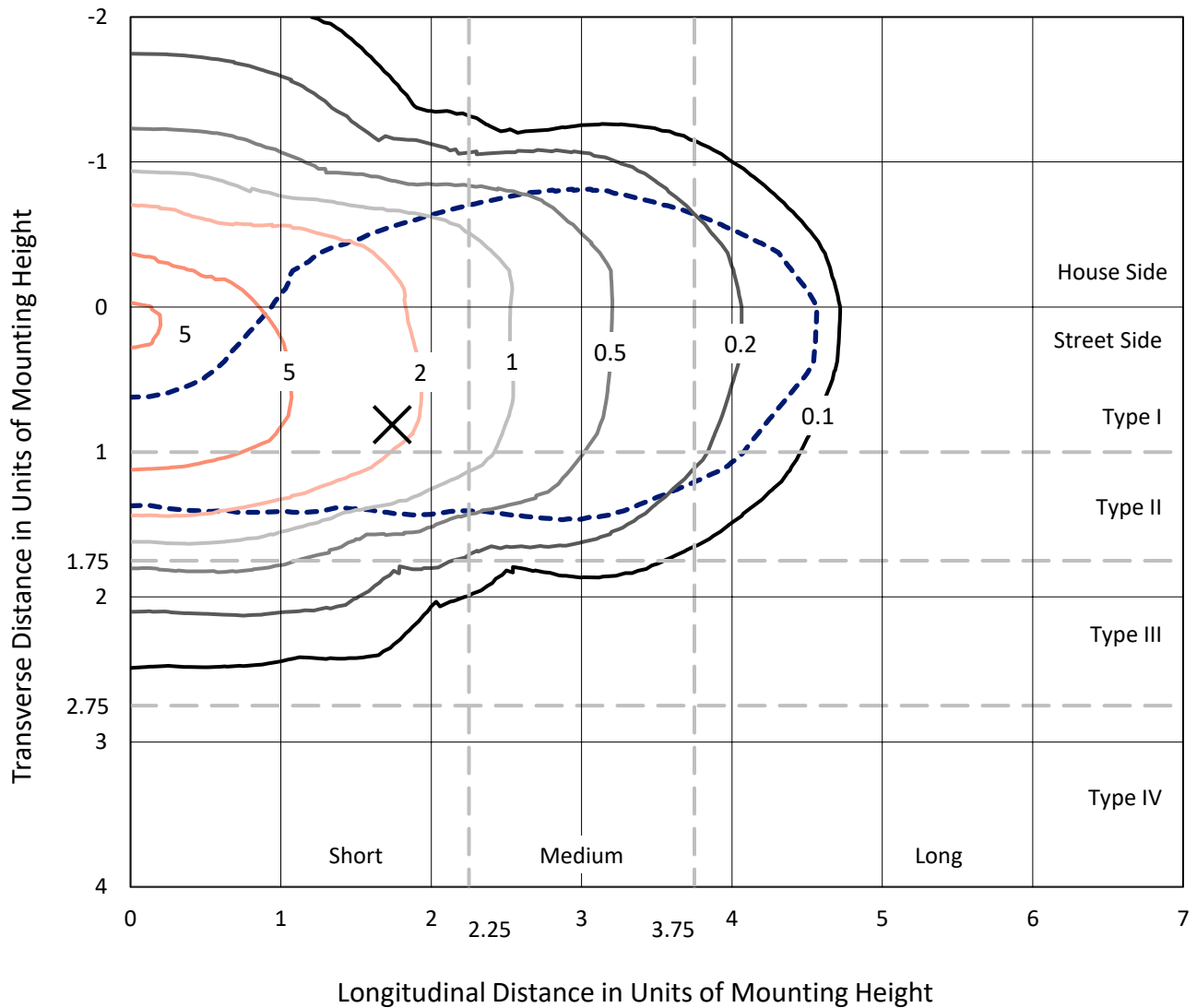
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

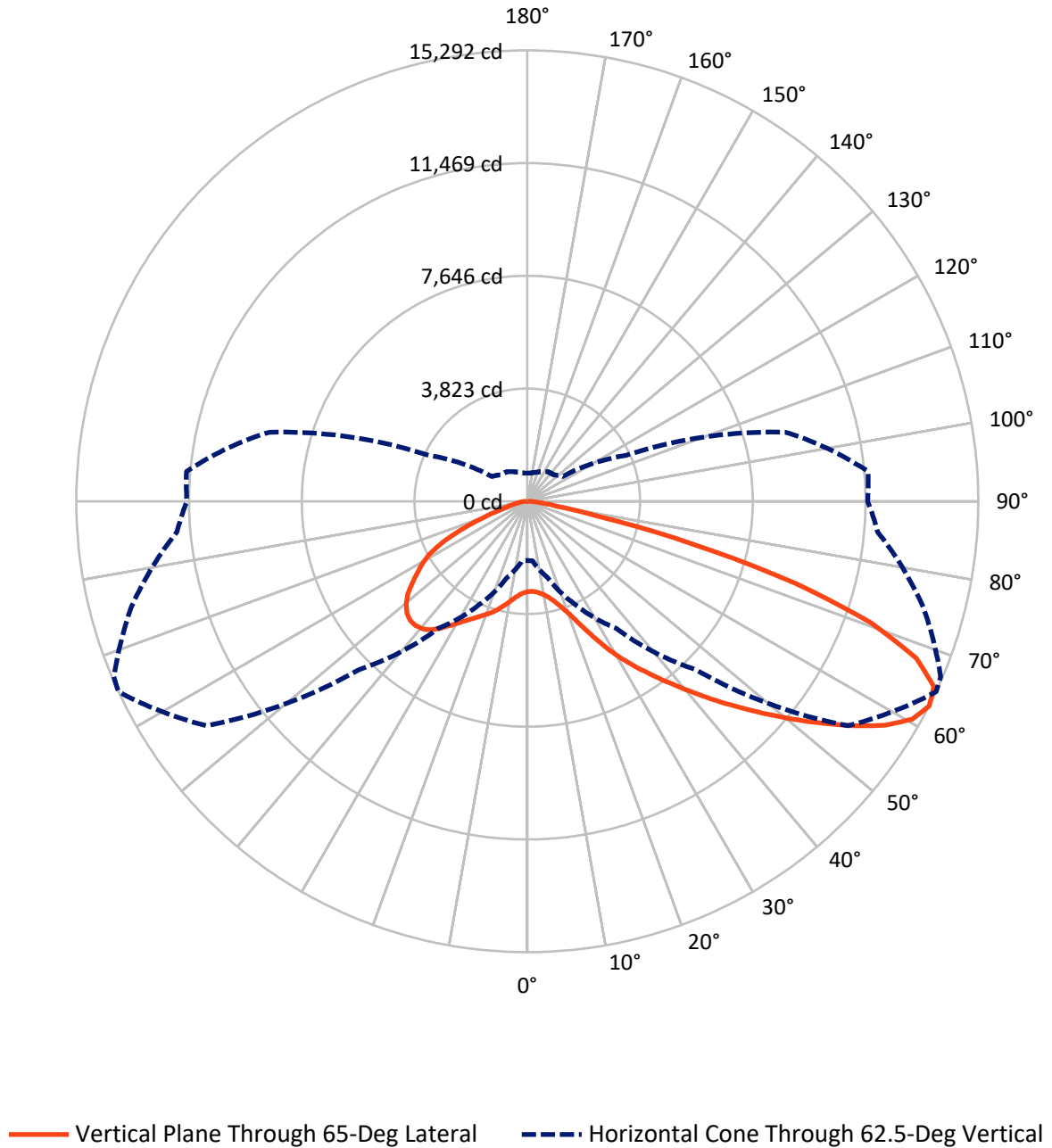
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	8773.1	0.0	8773.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	19028.9	0.0	19028.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	27802.0	0.0	27802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.4	1.1
10°-20°	1035.8	3.7
20°-30°	2100.2	7.6
30°-40°	3634.3	13.1
40°-50°	5499.8	19.8
50°-60°	6448.2	23.2
60°-70°	5406.0	19.4
70°-80°	2984.6	10.7
80°-90°	387.7	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°	27802.0	100.0
0°-180°	27802.0	100.0

Coefficient of Utilization



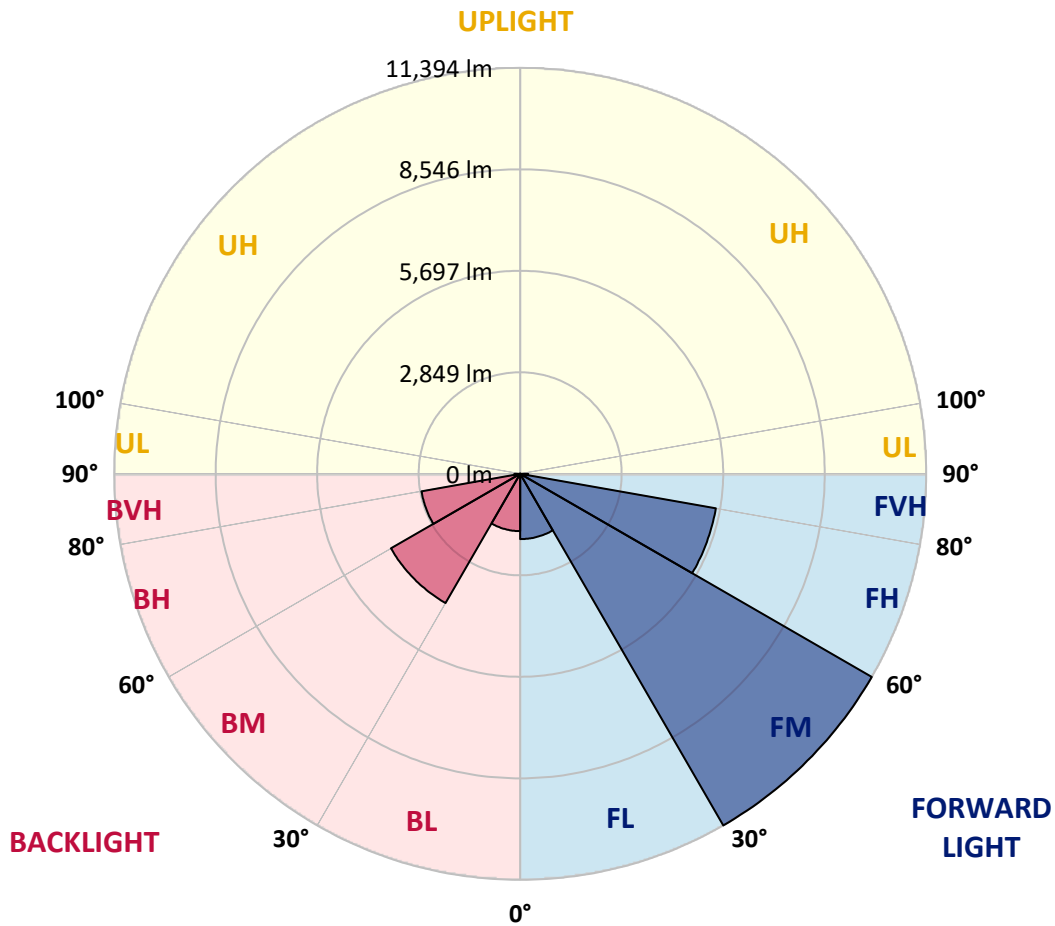
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1832.5	6.6			
FM (30°-60°)	11394.2	41.0			
FH (60°-80°)	5576.3	20.1			G3/7500
FVH (80°-90°)	226.0	0.8			G3/500
BL (0°-30°)	1608.9	5.8	B3/2500		
BM (30°-60°)	4188.2	15.1	B3/5000		
BH (60°-80°)	2814.3	10.1	B4/5000		G4/5000
BVH (80°-90°)	161.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7
2.5°	3043.5	3034.8	3042.0	3042.0	3044.9	3043.5	3053.6	3056.4	3060.8	3069.4
5°	3013.2	3011.7	3024.7	3036.3	3047.8	3057.9	3070.9	3089.6	3092.5	3102.6
7.5°	3003.1	2994.4	3014.6	3029.0	3056.4	3081.0	3115.6	3147.3	3160.3	3164.6
10°	3081.0	3066.5	3085.3	3094.0	3117.0	3141.5	3181.9	3232.4	3246.8	3264.2
12.5°	3213.7	3197.8	3225.2	3238.2	3259.8	3281.5	3308.9	3357.9	3365.1	3396.9
15°	3395.4	3376.7	3394.0	3409.8	3445.9	3466.1	3493.5	3541.1	3541.1	3565.6
17.5°	3642.1	3617.5	3630.5	3636.3	3659.4	3689.7	3735.8	3777.6	3799.3	3790.6
20°	4009.9	3979.6	3979.6	3950.7	3942.1	3966.6	4027.2	4084.9	4108.0	4063.2
22.5°	4562.3	4519.0	4494.5	4396.4	4357.5	4360.4	4421.0	4491.6	4510.4	4431.1
25°	5264.8	5197.0	5163.8	5019.6	4931.6	4855.1	4902.7	4993.6	5019.6	4921.5
27.5°	5967.2	5971.5	5939.8	5766.7	5621.0	5481.1	5456.6	5551.8	5579.2	5468.1
30°	6952.4	6850.0	6789.4	6581.7	6374.0	6177.8	6076.8	6115.8	6123.0	5990.3
32.5°	7801.9	7776.0	7646.2	7464.4	7197.6	6890.3	6721.6	6659.6	6648.0	6459.1
35°	8769.8	8755.4	8618.3	8402.0	8113.5	7686.6	7382.2	7204.8	7190.4	6925.0
37.5°	9753.5	9753.5	9619.4	9382.8	9084.2	8550.6	8087.5	7806.3	7760.1	7413.9
40°	10538.2	10490.6	10515.1	10415.6	10073.7	9506.9	8870.8	8462.6	8400.5	7985.1
42.5°	10983.9	10968.0	11115.1	11226.2	11086.3	10633.4	9733.3	9173.7	9087.1	8614.0
45°	11083.4	11066.1	11328.6	11735.4	11931.5	11745.5	10670.9	9922.3	9817.0	9271.8
47.5°	10854.1	10819.5	11204.6	11846.4	12475.3	12802.8	11686.3	10734.3	10581.5	9912.2
50°	10164.6	10131.4	10714.2	11566.6	12658.5	13521.1	12788.3	11595.5	11361.8	10598.8
52.5°	8665.9	8681.8	9594.9	10766.1	12417.6	13968.2	13737.4	12502.7	12221.5	11301.2
55°	6750.4	6785.1	7907.2	9196.7	11454.1	13900.4	14385.1	13437.4	13157.6	11961.8
57.5°	4833.5	4986.4	6037.9	7314.4	9603.5	12825.8	14526.4	14325.9	14054.8	12683.0
60°	3132.9	3160.3	4242.1	5528.7	7313.0	10916.1	14239.4	14999.5	14787.5	13418.7
62.5°	2007.8	2026.6	2685.8	3867.1	5263.3	8076.0	13273.0	15292.3	15227.4	13904.7
65°	1475.6	1461.2	1804.4	2555.9	3545.4	4980.6	11396.4	15151.0	15279.4	14209.1
67.5°	1231.8	1211.6	1380.4	1769.8	2612.2	2828.5	8432.3	14232.2	14702.4	14174.5
70°	1122.2	1104.9	1207.3	1314.0	2038.1	1893.9	4250.8	12372.9	13097.0	13780.7
72.5°	950.5	920.3	1060.2	1166.9	1585.2	1452.5	1756.8	9504.0	10386.7	12518.6
75°	737.1	716.9	836.6	1027.0	1191.4	1133.7	1110.6	5771.0	6734.6	9681.4
77.5°	584.2	556.8	666.4	800.5	1071.7	855.3	809.2	2485.3	3440.1	6180.7
80°	439.9	415.4	506.3	633.2	823.6	644.8	523.6	1014.0	1296.7	3131.5
82.5°	313.0	291.4	353.4	464.5	553.9	578.4	321.7	568.3	639.0	1207.3
85°	200.5	187.5	236.6	291.4	351.9	372.1	196.2	297.1	326.0	497.6
87.5°	109.6	89.4	126.9	135.6	163.0	148.6	93.8	108.2	116.8	180.3
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°
3063.7	0°	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7
3069.4	2.5°	3075.2	3079.5	3094.0	3098.3	3108.4	3121.4	3130.0	3138.7	3138.7	3147.3
3115.6	5°	3117.0	3127.1	3157.4	3173.3	3199.2	3225.2	3241.1	3259.8	3271.4	3277.1
3189.1	7.5°	3197.8	3213.7	3256.9	3284.3	3329.1	3365.1	3389.6	3415.6	3421.4	3437.2
3291.6	10°	3307.4	3326.2	3375.2	3427.1	3480.5	3525.2	3548.3	3567.1	3574.3	3577.2
3422.8	12.5°	3432.9	3460.3	3523.8	3587.3	3643.5	3682.4	3688.2	3683.9	3663.7	3646.4
3584.4	15°	3587.3	3611.8	3682.4	3751.7	3806.5	3813.7	3777.6	3754.6	3730.0	3725.7
3764.7	17.5°	3771.9	3784.9	3849.8	3917.6	3921.9	3897.4	3844.0	3822.4	3799.3	3783.4
3999.8	20°	3986.8	3982.5	4028.6	4057.5	4027.2	3952.2	3871.4	3835.3	3812.3	3793.5
4288.3	22.5°	4243.5	4210.4	4204.6	4197.4	4116.6	3959.4	3849.8	3803.6	3767.6	3741.6
4690.7	25°	4617.1	4490.2	4402.2	4353.2	4171.4	3920.4	3780.5	3678.1	3610.3	3565.6
5182.5	27.5°	5084.5	4871.0	4648.9	4529.1	4171.4	3841.1	3613.2	3447.3	3336.3	3290.1
5658.5	30°	5530.2	5306.6	4979.2	4741.2	4161.3	3711.3	3343.5	3112.7	2982.9	2936.7
6065.3	32.5°	5911.0	5667.2	5329.7	4973.4	4136.8	3500.7	3008.8	2753.5	2628.1	2573.2
6467.7	35°	6264.3	6004.7	5681.6	5228.7	4071.9	3192.0	2641.0	2446.3	2306.4	2218.4
6877.4	37.5°	6626.4	6317.7	6014.8	5459.5	3955.1	2831.4	2358.3	2192.4	2028.0	1909.7
7313.0	40°	7020.2	6650.9	6371.1	5596.5	3763.2	2488.1	2139.1	1987.6	1813.1	1687.6
7814.9	42.5°	7480.3	7050.5	6767.7	5667.2	3500.7	2244.4	1996.3	1847.7	1683.3	1580.9
8352.9	45°	7960.6	7490.4	7129.8	5665.8	3207.9	2130.4	1950.1	1803.0	1621.3	1514.5
8905.4	47.5°	8464.0	7950.5	7442.8	5573.4	2954.0	2146.3	1924.2	1706.4	1505.9	1402.0
9463.6	50°	8968.8	8453.9	7745.7	5400.3	2845.9	2111.7	1827.5	1570.8	1334.2	1240.5
9987.2	52.5°	9469.4	8989.0	8006.8	5153.7	2736.2	1983.3	1703.5	1394.8	1263.5	1198.6
10528.1	55°	9972.8	9518.4	8290.9	4794.5	2462.2	1833.3	1495.8	1328.5	1207.3	1148.2
11057.4	57.5°	10477.6	10130.0	8560.7	4435.4	2117.4	1648.7	1381.8	1247.7	1151.0	1100.6
11500.3	60°	11002.6	10829.5	8839.0	4105.1	1777.0	1412.1	1298.2	1182.8	1084.7	1028.4
11925.8	62.5°	11543.5	11599.8	9056.8	3679.6	1464.0	1267.9	1223.2	1104.9	1009.7	956.3
12277.7	65°	12088.8	12342.6	9199.6	3089.6	1187.1	1130.8	1142.4	1019.8	923.1	877.0
12535.9	67.5°	12499.8	12877.8	9159.2	2338.1	973.6	1001.0	1041.4	930.3	839.5	803.4
12494.1	70°	12546.0	12814.3	8761.1	1601.1	815.0	874.1	928.9	842.4	748.6	722.6
11905.6	72.5°	11931.5	11948.9	7651.9	1045.7	689.5	767.4	810.6	752.9	662.1	636.1
10415.6	75°	10320.4	9881.9	5618.2	689.5	577.0	659.2	699.6	659.2	571.2	577.0
7793.3	77.5°	7819.3	6998.5	3411.3	490.4	481.8	553.9	608.7	579.8	504.8	566.9
3919.0	80°	4028.6	3786.3	1521.7	366.4	380.8	442.8	500.5	463.0	399.5	380.8
875.5	82.5°	923.1	1073.1	600.0	262.5	275.5	318.8	382.2	347.6	287.0	242.3
364.9	85°	323.1	353.4	265.4	164.4	161.5	199.1	259.6	232.2	194.7	155.8
154.3	87.5°	102.4	134.1	99.5	66.4	69.2	89.4	119.7	109.6	90.9	59.1
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°
3063.7
3147.3
3280.0
3431.5
3569.9
3646.4
3725.7
3784.9
3795.0
3750.2
3582.9
3313.2
2964.1
2600.6
2247.3
1941.5
1712.1
1601.1
1531.8
1416.4
1246.2
1198.6
1142.4
1091.9
1024.1
954.9
875.5
804.9
724.1
634.7
556.8
499.1
347.6
239.4
164.4
62.0
0.0

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