

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: P952578

Luminaire Tested: **GALN-SB6B-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32599 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

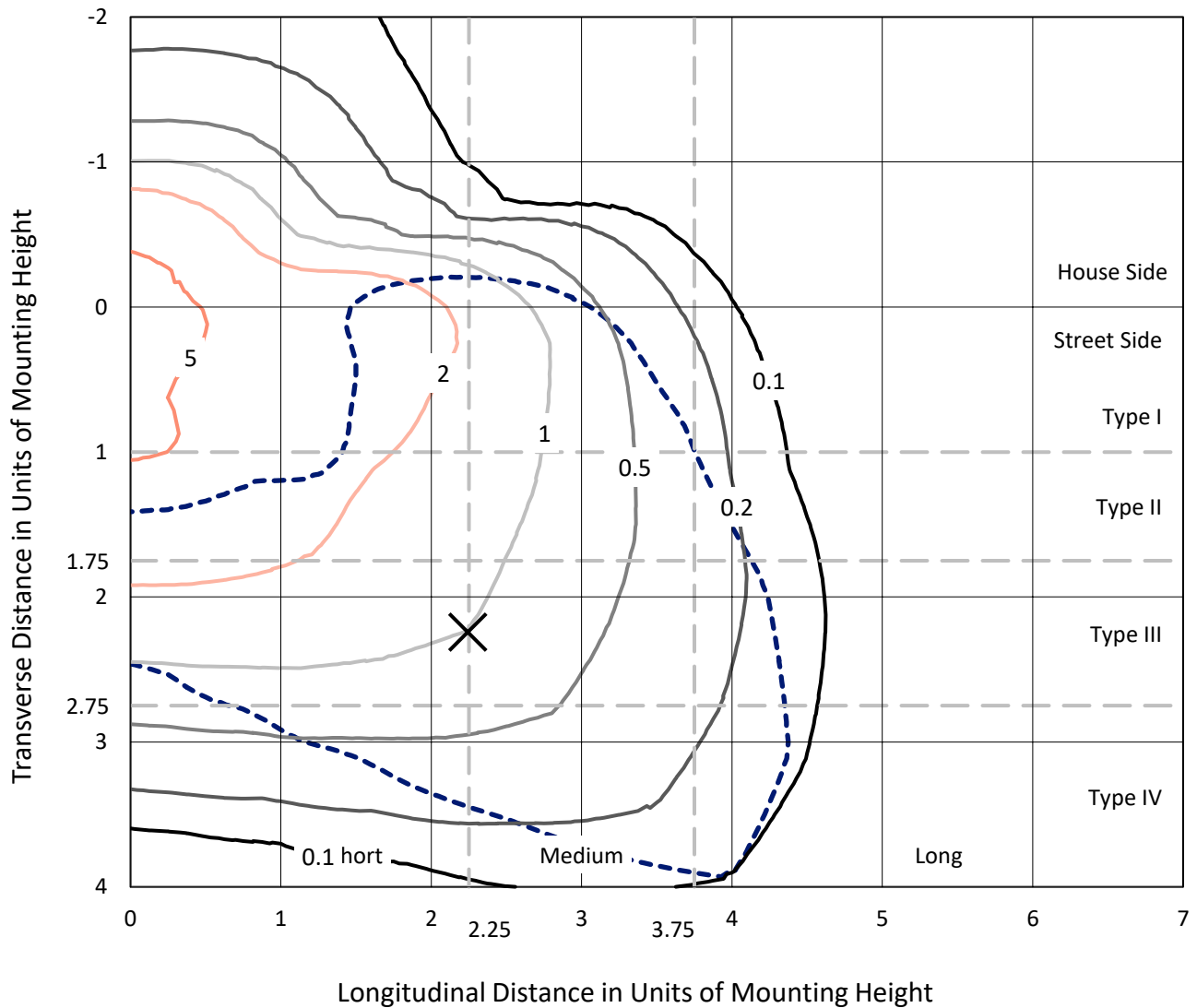
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

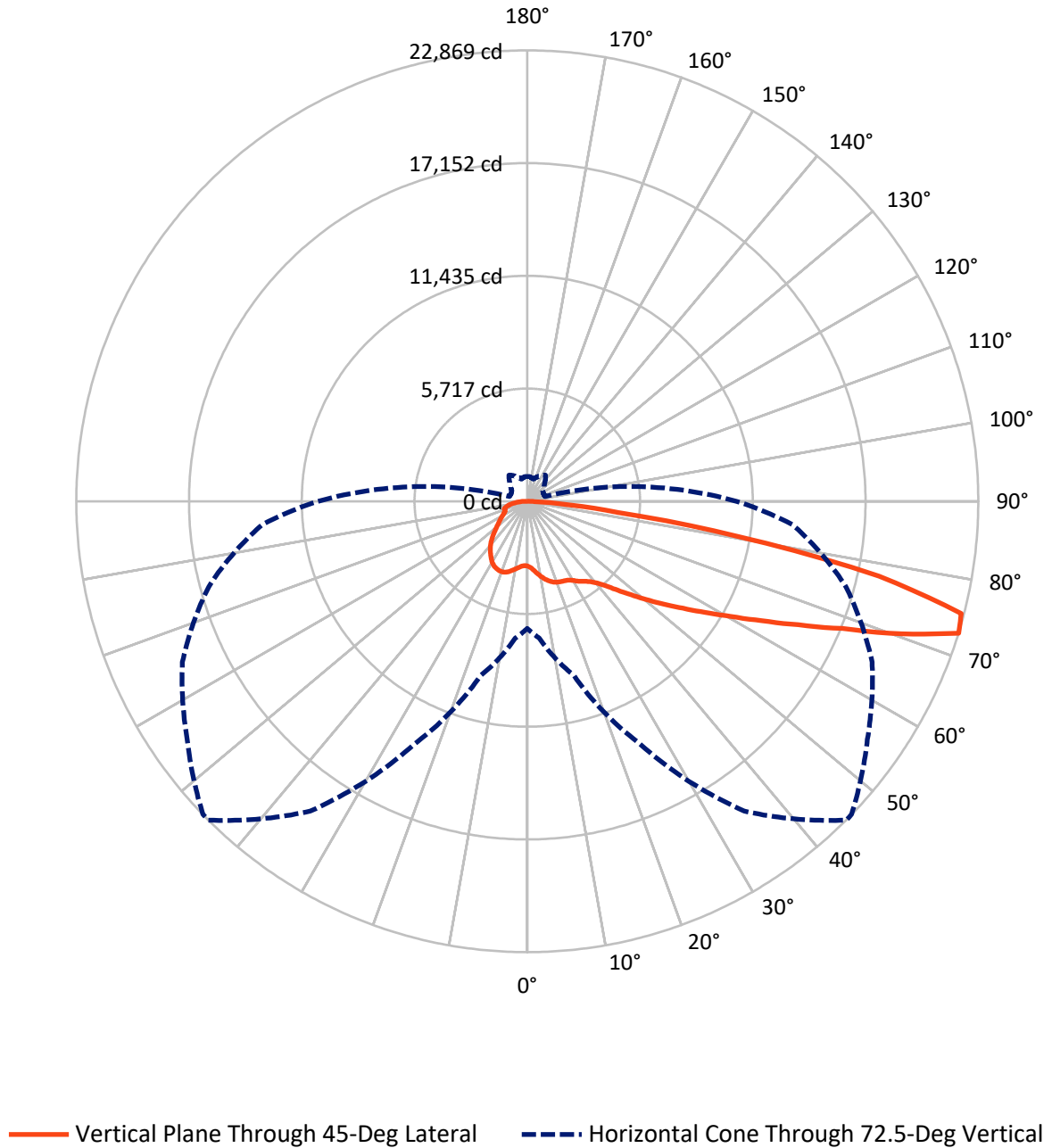
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	7369.5	0.0	7369.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	25229.5	0.0	25229.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	32599.0	0.0	32599.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.7	1.0
10°-20°	1116.0	3.4
20°-30°	1941.3	6.0
30°-40°	2783.0	8.5
40°-50°	3918.6	12.0
50°-60°	6002.1	18.4
60°-70°	8695.0	26.7
70°-80°	6943.5	21.3
80°-90°	864.8	2.7
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°	32599.0	100.0
0°-180°	32599.0	100.0



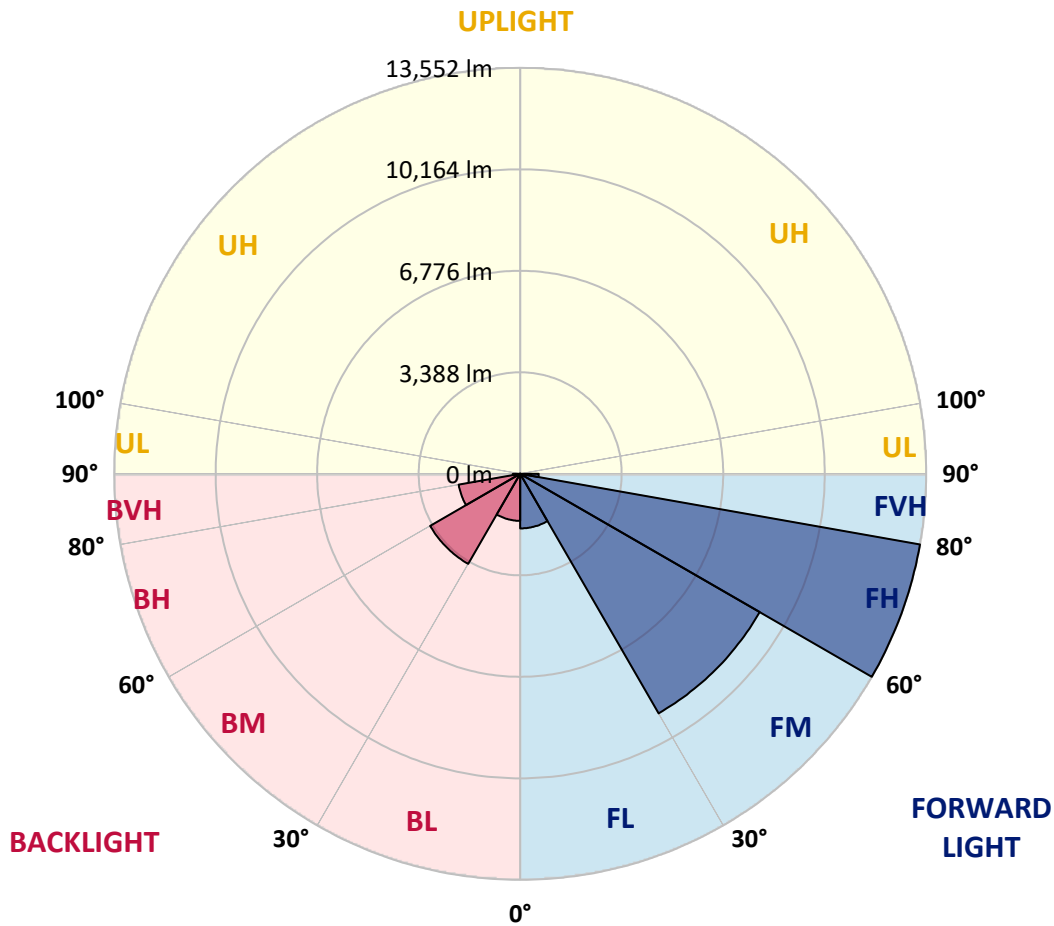
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1823.0	5.6			
FM (30°-60°)	9233.7	28.3			
FH (60°-80°)	13552.4	41.6			G5
FVH (80°-90°)	620.4	1.9			G4/750
BL (0°-30°)	1569.0	4.8	B3/2500		
BM (30°-60°)	3470.0	10.6	B3/5000		
BH (60°-80°)	2086.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	244.4	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6
2.5°	3417.4	3439.7	3419.1	3400.2	3391.6	3369.3	3367.6	3353.9	3345.3	3321.2
5°	3656.1	3685.3	3651.0	3613.2	3578.8	3523.9	3517.0	3477.5	3432.9	3381.3
7.5°	3925.7	3951.5	3912.0	3855.3	3795.2	3704.2	3702.5	3630.3	3559.9	3472.4
10°	4161.0	4195.3	4142.1	4064.8	3989.3	3886.2	3874.2	3791.8	3702.5	3589.1
12.5°	4368.8	4392.8	4341.3	4246.9	4159.3	4056.2	4040.8	3949.8	3850.2	3721.4
15°	4533.6	4564.5	4495.9	4394.5	4301.8	4200.5	4186.7	4104.3	4004.7	3869.0
17.5°	4641.8	4667.6	4597.2	4483.8	4394.5	4310.4	4300.1	4231.4	4143.8	4006.4
20°	4683.0	4710.5	4636.7	4521.6	4439.2	4373.9	4368.8	4319.0	4258.9	4133.5
22.5°	4724.3	4750.0	4653.8	4533.6	4461.5	4420.3	4418.6	4386.0	4361.9	4258.9
25°	4890.8	4897.7	4768.9	4595.5	4492.4	4456.4	4454.6	4452.9	4463.2	4382.5
27.5°	5035.1	5033.4	4923.5	4760.3	4600.6	4525.1	4523.3	4540.5	4573.1	4506.2
30°	5246.3	5227.4	5096.9	4926.9	4780.9	4664.2	4653.8	4638.4	4664.2	4610.9
32.5°	5694.5	5634.4	5423.2	5120.9	4930.3	4841.0	4827.3	4731.1	4741.4	4708.8
35°	6336.8	6257.8	5976.2	5488.4	5115.8	4988.7	4981.8	4859.9	4839.3	4810.1
37.5°	7101.0	7003.1	6675.1	6020.8	5435.2	5160.4	5150.1	5040.2	4956.1	4925.2
40°	7868.6	7745.0	7473.6	6669.9	5905.7	5447.2	5414.6	5248.0	5151.9	5100.3
42.5°	8613.9	8510.9	8279.0	7398.1	6486.2	5866.3	5794.1	5509.1	5436.9	5388.8
45°	9273.3	9180.6	9010.6	8176.0	7166.2	6436.4	6366.0	5900.6	5878.3	5878.3
47.5°	9809.1	9788.5	9608.2	8969.4	7968.2	7085.5	6963.6	6445.0	6505.1	6597.8
50°	10403.3	10346.7	10154.3	9750.8	8911.0	7829.1	7729.5	7113.0	7338.0	7592.1
52.5°	10949.4	10980.3	10765.7	10564.7	9975.7	8658.6	8483.4	7901.2	8387.2	8808.0
55°	11511.0	11512.7	11452.6	11425.1	11092.0	9575.6	9383.3	8849.2	9622.0	10144.0
57.5°	12038.2	12041.6	12130.9	12373.1	12386.8	10633.4	10415.3	10013.5	10994.1	11526.4
60°	12508.7	12532.8	12776.6	13343.3	13525.4	11845.8	11639.8	11389.0	12412.6	12948.3
62.5°	12666.7	12754.3	13297.0	14102.4	14650.2	13333.0	13130.4	12981.0	13903.2	14401.2
65°	12398.8	12599.7	13649.0	14729.2	15807.6	15100.1	14899.2	14736.0	15452.1	15921.0
67.5°	11741.1	12000.4	13628.4	15386.9	17212.4	17226.1	17038.9	16656.0	17112.8	17293.1
70°	10008.3	10396.5	12428.0	15632.5	18824.9	20133.5	19953.2	18967.4	18769.9	17897.6
72.5°	6448.4	6970.5	9151.4	13611.2	19183.8	22869.1	22858.8	21053.9	19293.7	16722.9
75°	2352.7	2672.1	4252.0	8543.5	16103.0	22730.0	22797.0	20696.7	17612.5	12917.4
77.5°	856.9	937.6	1387.6	3283.5	9903.6	18237.6	18376.7	16546.1	12536.2	6482.8
80°	449.9	494.6	711.0	1274.2	4243.4	10830.9	11049.0	9833.2	5892.0	1952.6
82.5°	249.0	269.6	398.4	692.1	1911.3	4631.5	4762.0	3884.5	2072.8	827.7
85°	133.9	142.5	187.2	377.8	934.2	1605.7	1641.7	1160.9	826.0	486.0
87.5°	39.5	48.1	61.8	120.2	365.8	360.6	369.2	230.1	326.3	245.6
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°
3288.6	0°	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6	3288.6
3314.4	2.5°	3304.1	3298.9	3280.0	3271.4	3261.1	3259.4	3268.0	3269.7	3271.4	3273.1
3352.1	5°	3335.0	3317.8	3300.6	3290.3	3293.8	3295.5	3312.6	3324.7	3333.3	3340.1
3422.6	7.5°	3395.1	3381.3	3352.1	3350.4	3355.6	3371.0	3393.4	3420.8	3436.3	3448.3
3513.6	10°	3484.4	3458.6	3424.3	3429.4	3439.7	3462.1	3508.4	3530.7	3556.5	3578.8
3625.2	12.5°	3575.4	3553.1	3513.6	3517.0	3534.2	3573.7	3618.3	3645.8	3663.0	3680.1
3745.4	15°	3693.9	3654.4	3611.5	3611.5	3642.4	3685.3	3705.9	3728.2	3738.5	3757.4
3874.2	17.5°	3815.8	3764.3	3707.6	3704.2	3742.0	3762.6	3774.6	3778.0	3781.5	3802.1
3999.6	20°	3937.7	3881.1	3800.4	3793.5	3802.1	3798.6	3796.9	3793.5	3798.6	3824.4
4128.4	22.5°	4057.9	3992.7	3881.1	3850.2	3826.1	3793.5	3791.8	3790.1	3793.5	3819.2
4267.5	25°	4198.8	4119.8	3970.4	3877.6	3796.9	3752.3	3757.4	3759.1	3762.6	3783.2
4411.7	27.5°	4351.6	4264.0	4052.8	3869.0	3723.1	3692.2	3683.6	3688.7	3700.8	3733.4
4556.0	30°	4504.4	4401.4	4128.4	3834.7	3630.3	3587.4	3559.9	3572.0	3609.7	3642.4
4681.3	32.5°	4643.5	4540.5	4188.5	3759.1	3511.9	3444.9	3408.8	3424.3	3462.1	3474.1
4820.4	35°	4806.7	4689.9	4214.2	3638.9	3383.1	3280.0	3231.9	3209.6	3228.5	3216.5
4983.6	37.5°	4988.7	4866.8	4210.8	3480.9	3231.9	3113.4	3046.5	2962.3	2922.8	2881.6
5224.0	40°	5258.3	5083.2	4169.6	3290.3	3044.7	2936.6	2816.4	2673.8	2584.5	2503.8
5612.1	42.5°	5625.8	5383.7	4094.0	3080.8	2833.5	2732.2	2569.1	2402.5	2261.7	2127.7
6201.1	45°	6173.6	5777.0	3999.6	2857.6	2605.1	2505.5	2328.6	2141.5	1981.7	1810.0
7037.4	47.5°	6963.6	6305.9	3910.3	2603.4	2364.7	2273.7	2114.0	1940.5	1751.6	1585.1
8246.4	50°	8048.9	7064.9	3827.8	2356.1	2127.7	2059.0	1931.9	1755.1	1564.4	1430.5
9663.2	52.5°	9429.6	8097.0	3793.5	2117.4	1906.2	1880.4	1779.1	1614.2	1433.9	1320.6
11315.2	55°	11014.7	9331.7	3793.5	1889.0	1712.1	1720.7	1650.3	1497.5	1341.2	1239.9
13018.8	57.5°	12632.4	10581.9	3724.8	1677.8	1547.3	1583.3	1538.7	1404.7	1263.9	1159.2
14809.9	60°	14123.0	11629.5	3446.6	1485.5	1401.3	1458.0	1428.8	1313.7	1142.0	1054.4
16307.4	62.5°	15268.4	12220.2	2910.8	1332.6	1281.1	1346.4	1330.9	1193.5	1119.7	1083.6
17536.9	65°	15842.0	12124.0	2225.6	1196.9	1179.8	1281.1	1248.5	1243.3	1184.9	1143.7
17937.1	67.5°	15489.9	11296.3	1614.2	1097.3	1121.4	1221.0	1346.4	1367.0	1258.8	1178.1
16810.5	70°	13946.1	9798.8	1202.1	1002.9	1047.5	1222.7	1535.3	1430.5	1234.7	1140.3
13482.4	72.5°	10609.4	7307.1	932.5	903.3	951.4	1231.3	1619.4	1401.3	1166.0	1260.5
8399.3	75°	6067.2	4011.6	748.7	781.4	831.2	1150.6	1576.5	1325.7	1112.8	1157.5
3328.1	77.5°	2313.2	1542.1	618.2	661.2	668.0	1004.6	1507.8	1320.6	1059.6	1033.8
997.7	80°	802.0	602.8	511.8	525.5	516.9	893.0	1446.0	1148.9	867.2	776.2
412.1	82.5°	328.0	300.5	405.3	388.1	367.5	693.8	1167.8	939.4	709.2	626.8
199.2	85°	142.5	190.6	267.9	235.3	212.9	480.8	935.9	795.1	599.3	516.9
65.3	87.5°	29.2	72.1	113.3	106.5	109.9	321.1	664.6	565.0	424.2	317.7
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>
3288.6
3280.0
3343.6
3451.7
3573.7
3687.0
3764.3
3808.9
3834.7
3836.4
3810.7
3766.0
3678.4
3517.0
3254.3
2907.4
2509.0
2115.7
1789.4
1566.2
1421.9
1312.0
1229.6
1142.0
1040.7
1071.6
1130.0
1164.3
1124.8
1250.2
1157.5
942.8
750.5
619.9
515.2
249.0
0.0

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