

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: P942362

Luminaire Tested: **GALN-SB6B-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30415 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

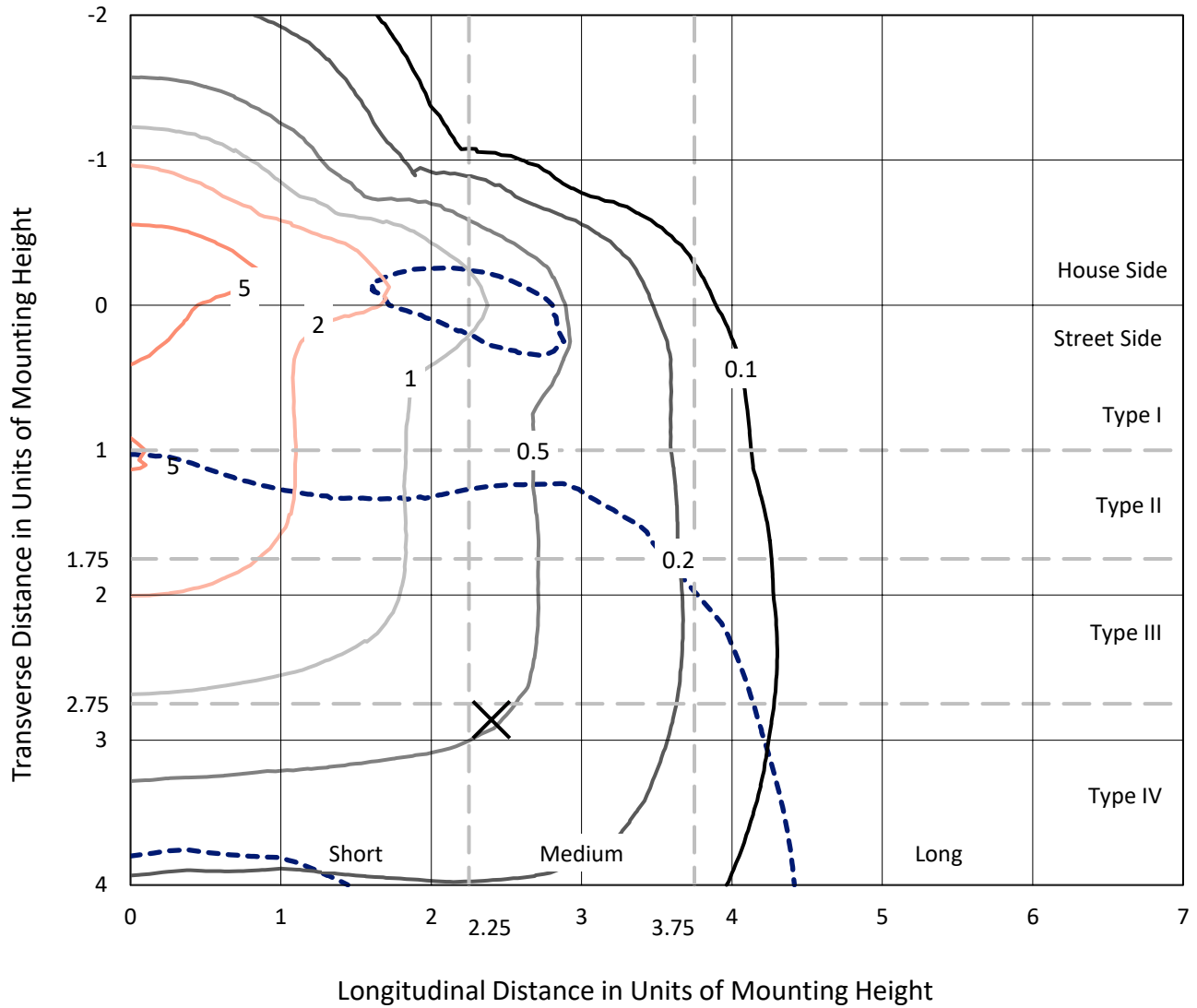
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

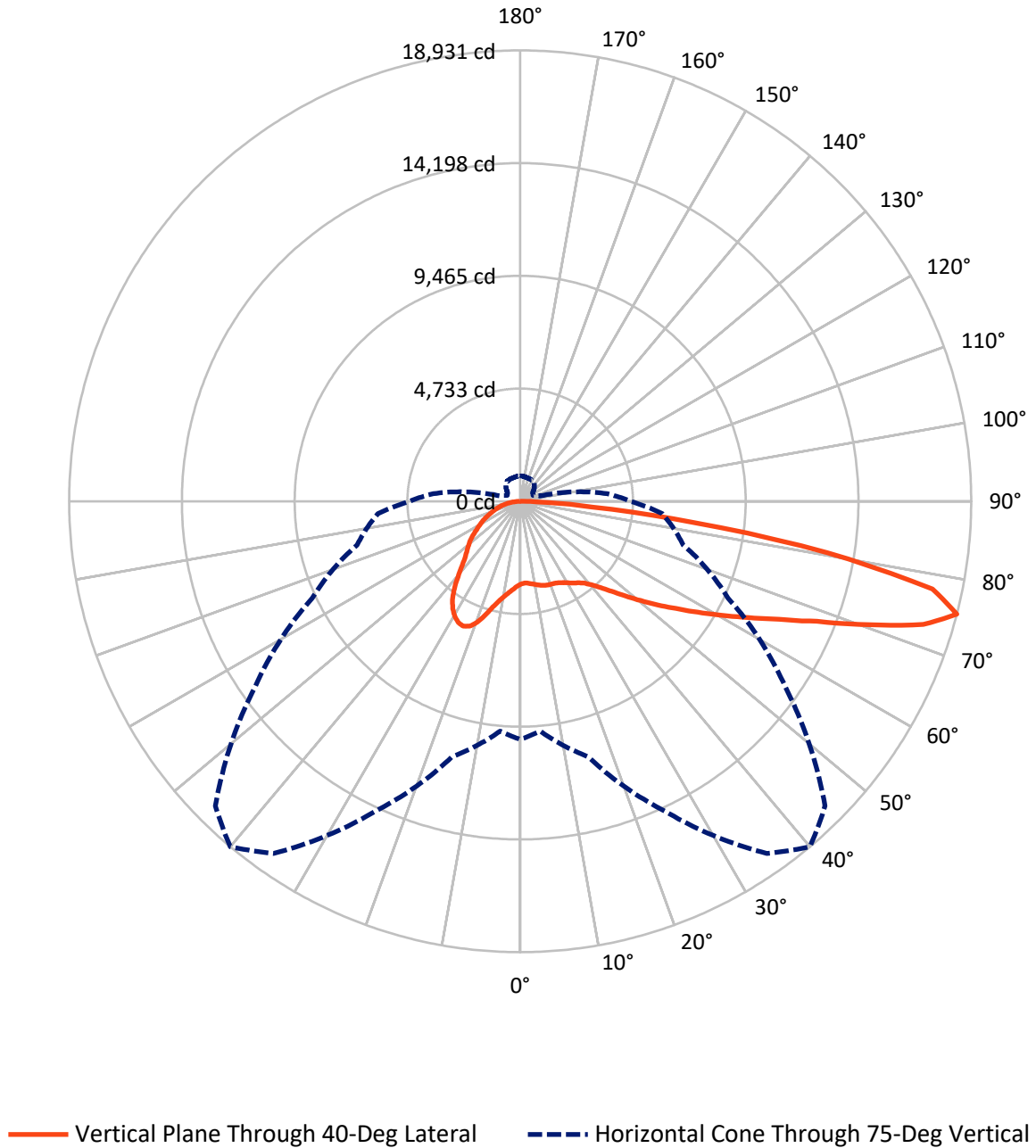
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9423.6	0.0	9423.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	20991.4	0.0	20991.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	30415.0	0.0	30415.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.2	1.1
10°-20°	1165.6	3.8
20°-30°	2128.3	7.0
30°-40°	3018.5	9.9
40°-50°	4075.9	13.4
50°-60°	5483.2	18.0
60°-70°	6959.4	22.9
70°-80°	6316.1	20.8
80°-90°	920.7	3.0
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°	30415.0	100.0
0°-180°	30415.0	100.0



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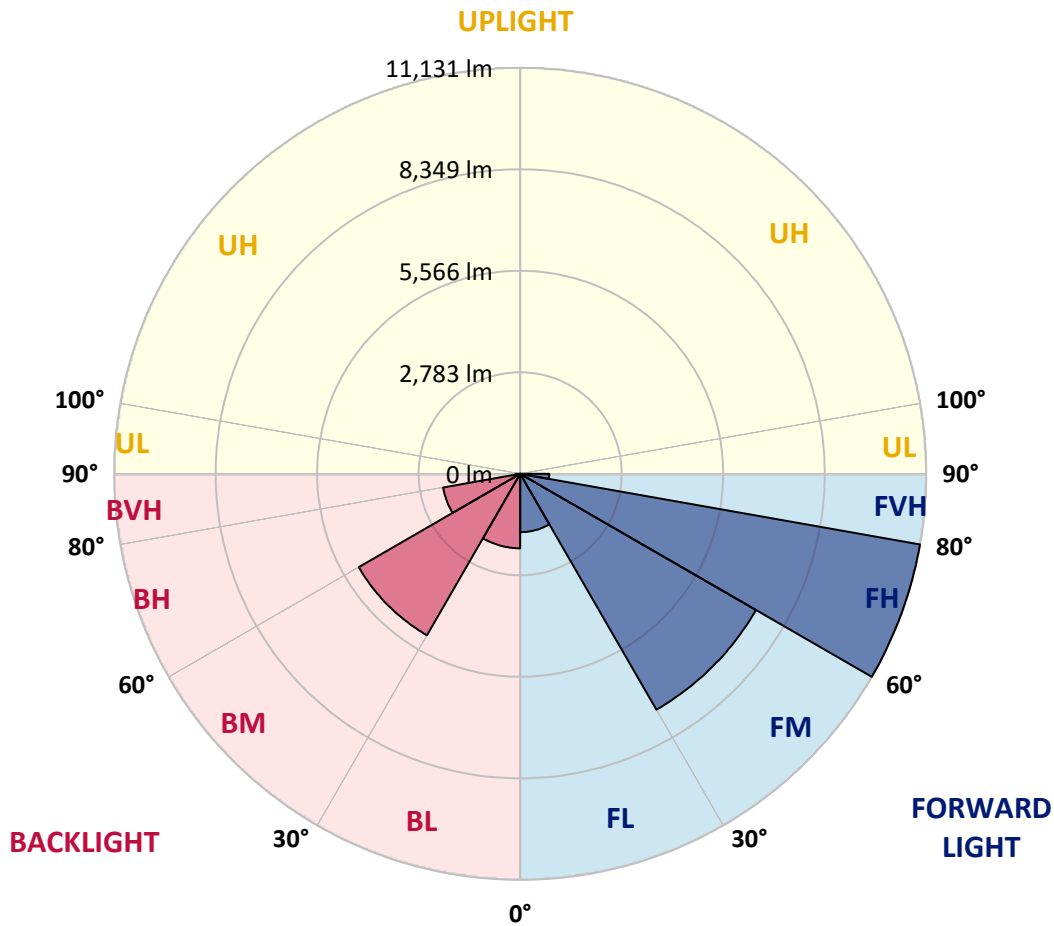
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1599.9	5.3			
FM (30°-60°)	7466.2	24.5			
FH (60°-80°)	11131.4	36.6			G4/12000
FVH (80°-90°)	793.9	2.6			G5
BL (0°-30°)	2041.2	6.7	B3/2500		
BM (30°-60°)	5111.4	16.8	B4/8500		
BH (60°-80°)	2144.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	126.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3478.0	3478.0	3478.0	3478.0	3478.0	3478.0	3478.0	3478.0	3478.0	3478.0
2.5°	3424.8	3444.1	3439.3	3432.8	3432.8	3434.4	3432.8	3444.1	3455.4	3466.7
5°	3460.3	3479.6	3469.9	3461.9	3455.4	3453.8	3449.0	3447.3	3453.8	3468.3
7.5°	3529.6	3549.0	3534.5	3519.9	3507.0	3500.6	3494.1	3484.4	3479.6	3487.7
10°	3607.0	3626.4	3608.7	3582.9	3561.9	3553.8	3547.4	3537.7	3531.2	3536.1
12.5°	3684.5	3703.8	3679.6	3644.2	3616.7	3611.9	3603.8	3600.6	3599.0	3597.4
15°	3757.1	3773.2	3742.6	3700.6	3671.6	3663.5	3655.4	3660.3	3668.3	3678.0
17.5°	3813.5	3829.7	3784.5	3729.7	3702.2	3699.0	3694.2	3710.3	3732.9	3757.1
20°	3865.2	3881.3	3823.2	3749.0	3716.7	3716.7	3718.4	3752.2	3784.5	3820.0
22.5°	3937.7	3950.7	3879.7	3778.0	3731.3	3734.5	3747.4	3781.3	3821.6	3870.0
25°	4045.8	4055.5	3968.4	3832.9	3779.7	3789.3	3800.6	3816.8	3855.5	3911.9
27.5°	4220.1	4228.1	4113.6	3929.7	3849.0	3865.2	3881.3	3870.0	3887.7	3936.1
30°	4465.3	4470.1	4324.9	4081.3	3966.8	3974.9	3978.1	3931.3	3897.4	3936.1
32.5°	4755.6	4754.0	4581.4	4265.2	4100.7	4092.6	4065.2	3973.2	3894.2	3928.1
35°	5205.7	5188.0	4965.3	4523.3	4252.3	4202.3	4137.8	4020.0	3910.3	3920.0
37.5°	5951.0	5896.1	5588.0	4946.0	4478.2	4350.7	4255.5	4095.8	3945.8	3916.8
40°	6791.4	6722.1	6383.3	5525.1	4816.9	4612.1	4458.8	4203.9	4003.9	3931.3
42.5°	7788.4	7690.0	7325.4	6207.5	5246.0	4949.2	4718.5	4341.0	4089.4	3978.1
45°	9012.8	8882.1	8365.9	6977.0	5786.4	5391.2	5083.1	4549.1	4220.1	4068.4
47.5°	10250.1	10282.3	9548.4	7857.8	6434.9	5936.5	5539.6	4862.1	4410.4	4213.6
50°	11564.8	11587.4	10724.4	8833.7	7170.5	6552.7	6052.6	5212.2	4675.0	4420.1
52.5°	12590.8	12594.0	11792.3	9854.9	7936.8	7230.2	6605.9	5612.2	4981.5	4694.3
55°	13232.8	13224.8	12540.8	10821.1	8817.6	7941.6	7218.9	6067.1	5355.7	5017.0
57.5°	13699.0	13674.8	13057.0	11651.9	9756.5	8782.1	7912.6	6583.3	5797.7	5400.9
60°	13876.5	13862.0	13407.1	12369.8	10743.7	9711.3	8712.7	7160.9	6299.4	5854.2
62.5°	13944.2	13971.7	13750.7	13065.1	11800.3	10740.5	9591.9	7851.3	6864.0	6367.2
65°	14183.0	14233.0	14187.8	13974.9	12994.1	11945.5	10758.2	8672.4	7480.3	6917.3
67.5°	14655.7	14705.7	14725.0	15063.8	14452.4	13447.4	12213.3	9695.2	8201.4	7488.3
70°	14644.4	14629.8	14971.8	15930.1	16278.5	15526.8	14174.9	10953.4	9061.2	7962.6
72.5°	13329.6	13213.5	14021.7	15920.4	17798.1	17698.1	16570.5	12576.3	9803.2	8020.7
75°	10000.0	9690.3	11118.0	14347.5	18051.4	18930.6	18093.3	13582.9	9627.4	7086.7
77.5°	4276.5	3965.2	5647.7	10621.1	16155.9	17696.5	16696.3	11850.4	7685.1	4686.3
80°	1119.5	1117.9	1706.7	4815.3	10987.3	13068.3	11464.8	7652.9	4391.1	1674.5
82.5°	463.0	451.7	627.5	1872.9	5368.6	7333.5	5984.9	3413.5	1585.7	453.3
85°	172.6	171.0	304.9	646.9	1893.9	3024.7	2189.1	872.7	395.2	221.0
87.5°	48.4	46.8	66.1	224.2	461.4	700.1	374.3	143.6	111.3	87.1
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°
3478.0	0°	3478.0	3478.0	3478.0	3478.0	3478.0	3478.0	3478.0	3478.0	3478.0	3478.0
3484.4	2.5°	3489.3	3497.4	3511.9	3523.2	3537.7	3553.8	3576.4	3590.9	3605.4	3615.1
3492.5	5°	3503.8	3521.6	3558.7	3595.8	3639.3	3679.6	3726.4	3760.3	3787.7	3795.8
3521.6	7.5°	3536.1	3565.1	3628.0	3690.9	3760.3	3826.4	3894.2	3952.3	3999.0	4016.8
3573.2	10°	3592.5	3631.2	3720.0	3808.7	3900.6	4002.3	4089.4	4173.3	4239.4	4266.8
3634.5	12.5°	3663.5	3711.9	3828.1	3950.7	4078.1	4218.4	4331.4	4434.6	4516.9	4554.0
3720.0	15°	3755.5	3818.4	3966.8	4131.3	4318.5	4513.7	4657.2	4771.8	4863.7	4908.9
3808.7	17.5°	3855.5	3939.4	4126.5	4374.9	4642.7	4899.2	5067.0	5150.9	5246.0	5289.6
3891.0	20°	3952.3	4055.5	4323.3	4684.6	5041.2	5313.8	5449.3	5471.9	5478.3	5483.2
3968.4	22.5°	4052.3	4191.0	4570.1	5075.0	5457.4	5646.1	5665.5	5568.7	5433.2	5370.2
4044.2	25°	4162.0	4345.9	4892.7	5505.8	5815.5	5838.1	5689.7	5454.1	5197.6	5079.9
4105.5	27.5°	4268.4	4524.9	5279.9	5917.1	6073.6	5875.2	5555.8	5221.8	4912.1	4787.9
4149.1	30°	4374.9	4729.8	5707.4	6276.8	6191.3	5783.2	5344.4	4971.8	4660.4	4529.8
4187.8	32.5°	4483.0	4968.6	6199.4	6536.6	6170.4	5588.0	5081.5	4691.1	4416.9	4279.7
4221.7	35°	4605.6	5262.2	6665.6	6678.5	6030.0	5300.9	4734.7	4355.6	4116.8	4007.1
4262.0	37.5°	4765.3	5634.8	7077.0	6714.0	5784.8	4879.8	4303.9	3958.7	3761.9	3711.9
4321.7	40°	4963.7	6083.3	7391.5	6657.6	5421.9	4368.5	3832.9	3557.0	3445.7	3457.0
4402.3	42.5°	5221.8	6585.0	7612.6	6512.4	4916.9	3841.0	3419.9	3297.3	3350.6	3395.7
4523.3	45°	5557.4	7106.0	7749.7	6265.6	4345.9	3394.1	3176.3	3205.4	3245.7	3250.5
4718.5	47.5°	5986.5	7633.5	7840.0	5892.9	3763.5	3079.5	3021.5	3027.9	3019.9	2986.0
5010.5	50°	6522.0	8146.5	7920.7	5399.3	3268.3	2882.7	2805.3	2782.7	2671.4	2561.7
5399.3	52.5°	7131.8	8617.6	7954.5	4786.3	2882.7	2718.2	2592.4	2450.4	2242.3	2208.4
5888.1	55°	7809.4	9053.1	7867.4	4032.9	2558.5	2506.9	2316.5	2145.5	2122.9	2093.9
6531.7	57.5°	8619.2	9522.5	7690.0	3192.5	2226.2	2260.1	2074.5	2093.9	2053.6	2008.4
7359.3	60°	9504.8	10008.1	7378.6	2426.2	1882.6	1951.9	2011.6	2010.0	1998.7	1961.6
8232.0	62.5°	10301.7	10327.5	6765.6	1858.4	1580.9	1713.2	1876.1	1874.5	1864.8	1843.9
9143.5	65°	10776.0	10279.1	5742.9	1463.1	1332.5	1516.4	1692.2	1705.1	1706.7	1705.1
9829.0	67.5°	10692.1	9712.9	4339.4	1164.7	1127.6	1316.3	1509.9	1527.7	1540.6	1543.8
9916.2	70°	9743.6	8469.1	2829.5	929.2	945.3	1140.5	1337.3	1355.1	1366.4	1379.3
8604.7	72.5°	7594.8	6226.8	1619.6	751.7	785.6	988.9	1166.3	1187.3	1193.7	1217.9
5988.1	75°	4628.2	3661.9	874.3	592.0	645.3	845.3	996.9	1021.1	1032.4	1061.5
2940.8	77.5°	2200.4	1585.7	498.5	461.4	519.4	690.4	842.1	869.5	838.8	855.0
811.4	80°	743.7	588.8	314.6	351.7	396.8	538.8	674.3	701.7	637.2	634.0
269.4	82.5°	259.7	238.7	200.0	233.9	256.5	385.5	509.8	545.3	474.3	472.7
121.0	85°	101.6	96.8	111.3	127.4	153.3	237.1	335.5	353.3	292.0	235.5
35.5	87.5°	21.0	22.6	27.4	29.0	46.8	82.3	121.0	148.4	117.8	100.0
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>
3478.0
3608.7
3799.0
4018.4
4268.4
4554.0
4905.7
5288.0
5496.1
5388.0
5097.6
4802.4
4544.3
4297.5
4031.3
3747.4
3495.7
3437.7
3282.8
3011.8
2576.2
2219.7
2098.7
2000.3
1948.7
1835.8
1705.1
1547.0
1385.7
1227.6
1064.7
842.1
627.5
450.1
232.3
92.0
0.0

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