

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: P942909

Luminaire Tested: **GALN-SB7A-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942909
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-SB7A-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30159 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

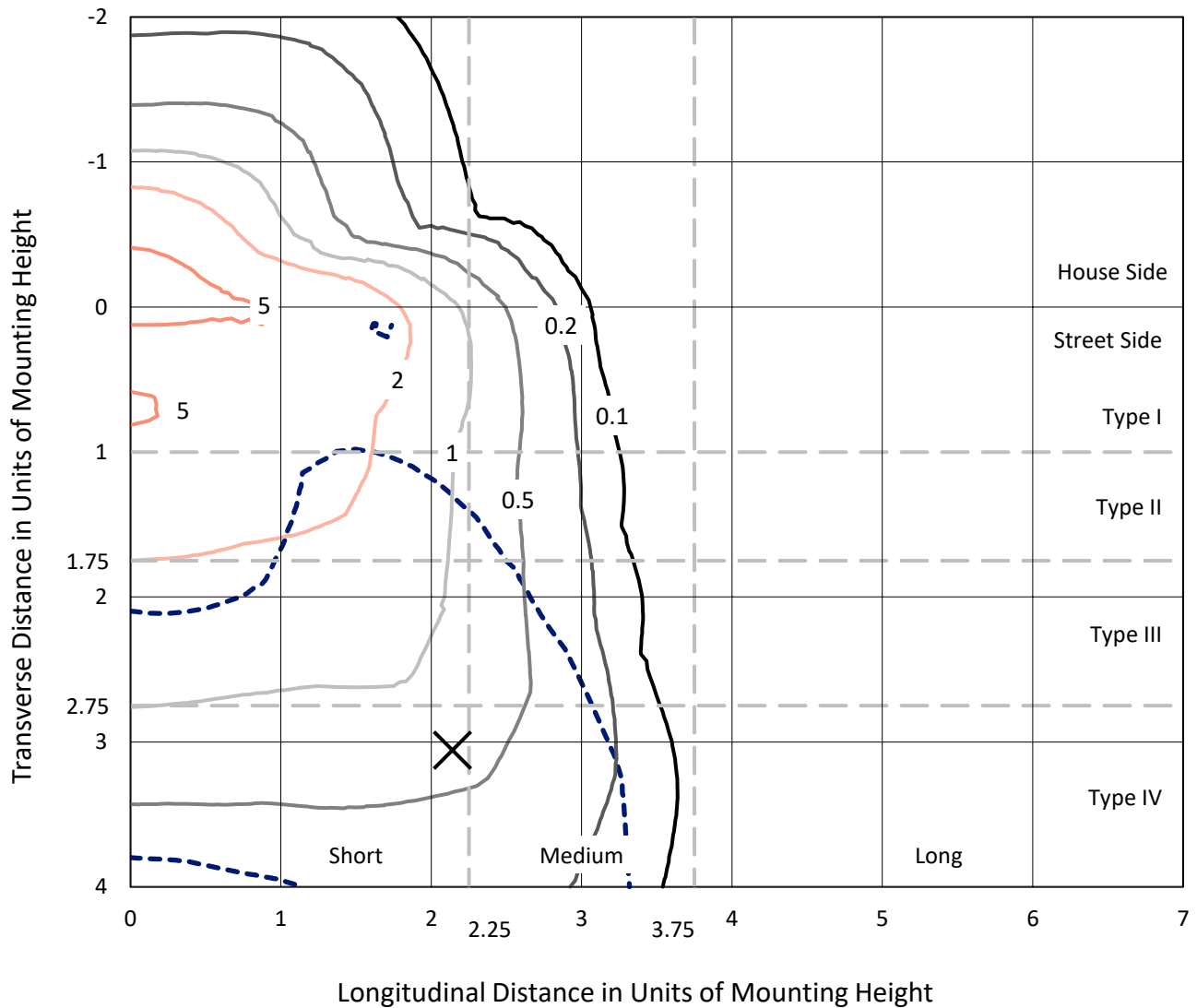
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

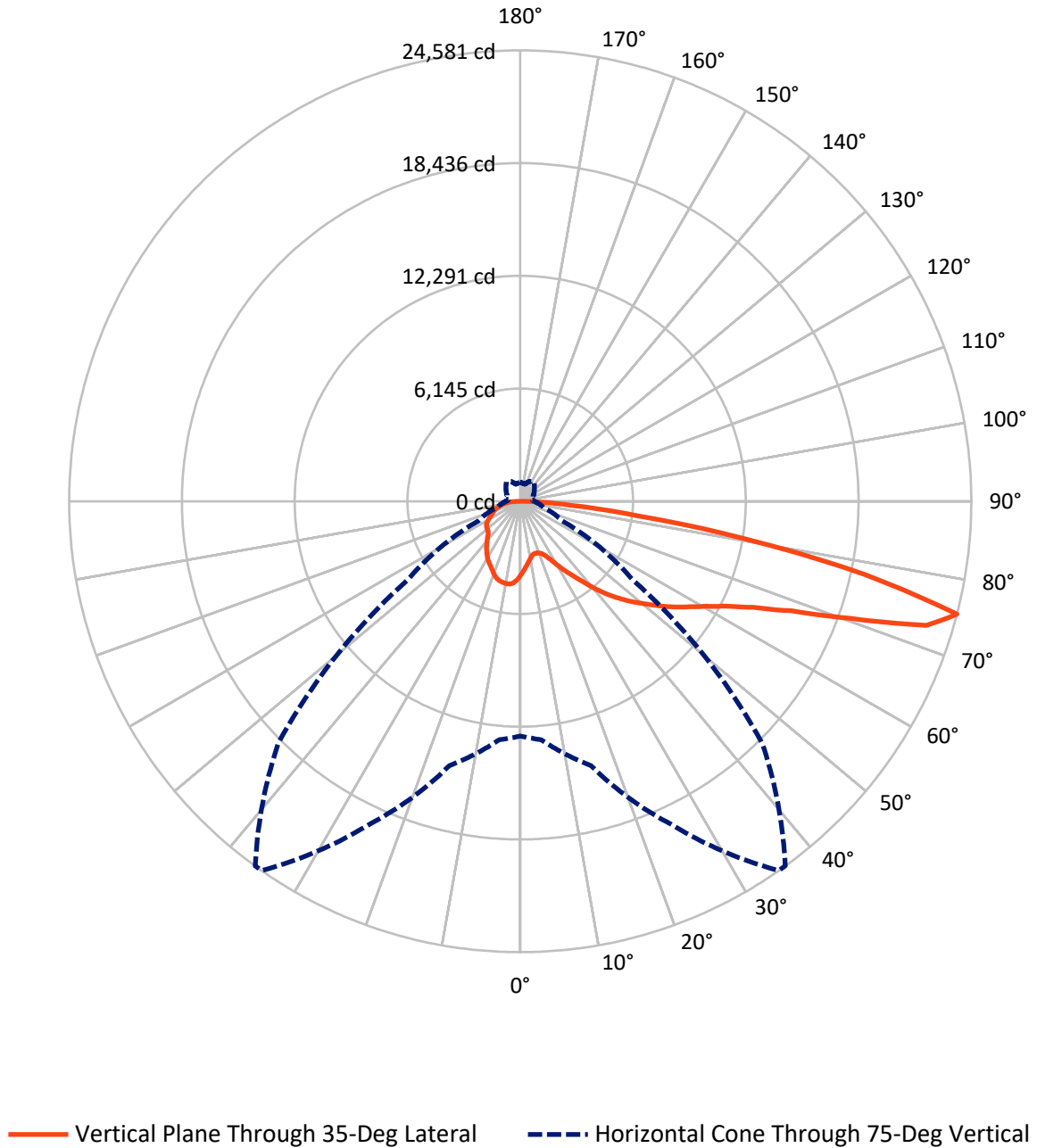
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	7177.1	0.0	7177.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	22981.9	0.0	22981.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	30159.0	0.0	30159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.5	1.3
10°-20°	1097.6	3.6
20°-30°	1843.1	6.1
30°-40°	2864.4	9.5
40°-50°	4251.5	14.1
50°-60°	5869.5	19.5
60°-70°	7121.0	23.6
70°-80°	5885.0	19.5
80°-90°	846.4	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°	30159.0	100.0
0°-180°	30159.0	100.0

Coefficient of Utilization



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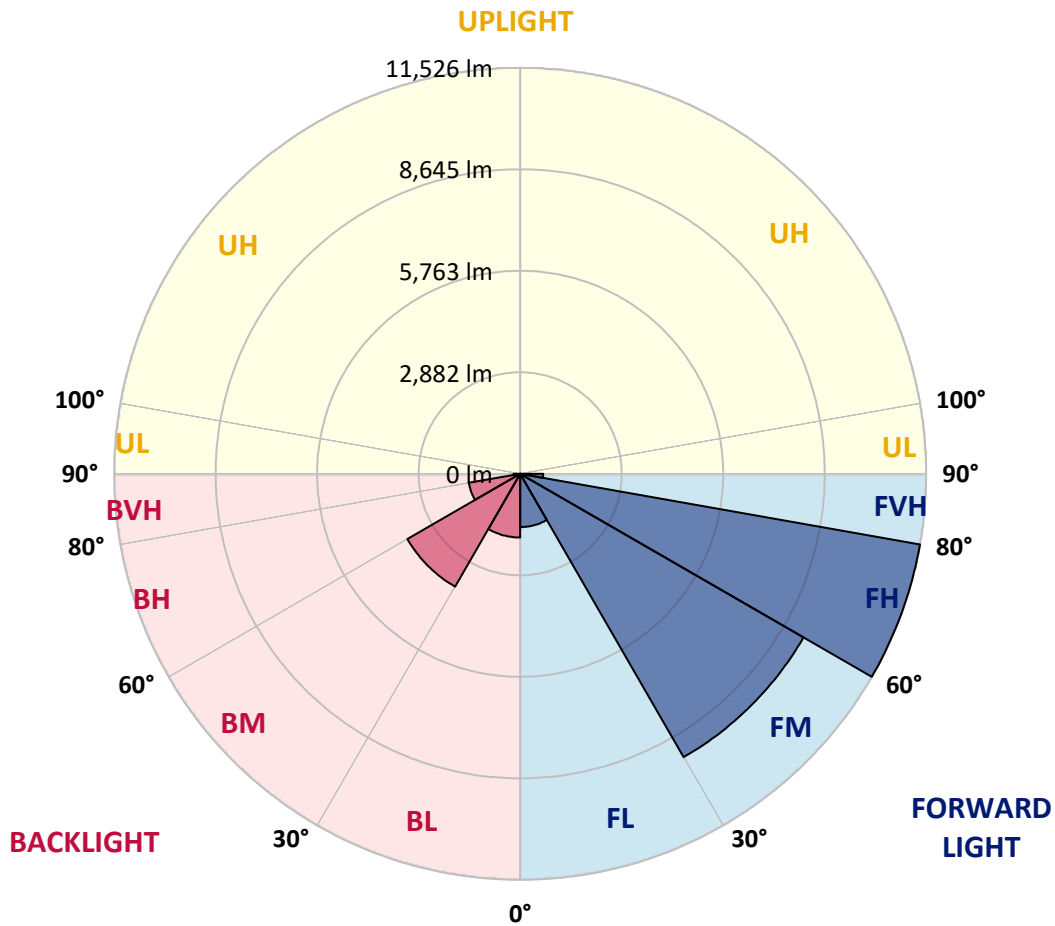
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1512.4	5.0			
FM (30°-60°)	9287.3	30.8			
FH (60°-80°)	11526.3	38.2			G4/12000
FVH (80°-90°)	655.8	2.2			G4/750
BL (0°-30°)	1808.7	6.0	B3/2500		
BM (30°-60°)	3698.1	12.3	B3/5000		
BH (60°-80°)	1479.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	190.6	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°	4018.9	4018.9	4018.9	4018.9	4018.9	4018.9	4018.9	4018.9	4018.9	4018.9
2.5°	3705.9	3728.7	3738.5	3733.6	3758.0	3754.8	3789.0	3831.4	3890.1	3947.2
5°	3420.5	3445.0	3466.2	3485.8	3533.0	3547.7	3601.5	3683.0	3790.6	3899.9
7.5°	3154.8	3176.0	3208.6	3244.5	3324.3	3339.0	3428.7	3555.9	3705.9	3865.6
10°	2937.9	2959.1	2993.4	3034.1	3133.6	3151.5	3265.7	3435.2	3630.9	3833.0
12.5°	2845.0	2851.5	2871.1	2911.9	2998.3	3009.7	3135.2	3329.2	3557.5	3808.6
15°	2840.1	2853.2	2854.8	2876.0	2947.7	2952.6	3068.4	3260.8	3511.8	3803.7
17.5°	2889.0	2898.8	2884.1	2897.2	2957.5	2965.7	3057.0	3228.2	3497.2	3824.9
20°	3019.5	3027.6	2983.6	2965.7	3009.7	3016.2	3105.9	3249.4	3511.8	3868.9
22.5°	3296.6	3301.5	3193.9	3120.6	3123.8	3127.1	3205.3	3335.8	3568.9	3948.8
25°	3728.7	3725.4	3554.2	3412.4	3330.9	3312.9	3365.1	3476.0	3665.1	4054.8
27.5°	4234.1	4209.6	4038.5	3826.5	3648.8	3622.7	3611.3	3658.6	3802.1	4195.0
30°	4804.7	4781.9	4597.7	4320.5	4074.3	4031.9	3924.3	3899.9	4005.8	4385.7
32.5°	5430.8	5416.1	5196.0	4860.2	4530.8	4481.9	4300.9	4235.7	4318.9	4674.3
35°	5955.8	5942.7	5760.1	5414.5	5011.8	4951.5	4767.2	4693.9	4736.3	5044.4
37.5°	6430.2	6423.7	6267.2	5994.9	5579.2	5505.8	5298.7	5274.3	5266.1	5531.9
40°	6870.4	6854.1	6691.1	6547.6	6239.5	6172.6	5990.0	5968.8	5906.9	6131.9
42.5°	7357.9	7315.5	7079.1	7012.3	6929.1	6873.7	6764.5	6767.7	6630.8	6808.5
45°	7755.7	7731.3	7488.3	7449.2	7538.9	7516.1	7610.6	7635.1	7369.3	7517.7
47.5°	8182.9	8160.1	7954.6	7926.9	8169.8	8176.4	8510.6	8518.7	8090.0	8254.6
50°	8709.5	8676.9	8473.1	8507.3	8779.6	8804.1	9415.5	9360.0	8753.5	9003.0
52.5°	9056.8	9076.3	9032.3	9087.7	9459.5	9482.3	10305.6	10163.8	9410.6	9741.5
55°	9312.7	9351.9	9488.8	9616.0	10176.8	10199.7	11145.3	10928.4	9955.1	10426.3
57.5°	9642.1	9586.6	9842.6	10090.4	10858.3	10918.7	11962.1	11665.4	10437.7	11016.5
60°	10114.9	10075.8	10274.7	10641.5	11621.4	11717.6	12826.2	12328.9	10791.5	11484.4
62.5°	11073.6	10975.7	11006.7	11331.2	12583.3	12710.5	13801.2	12907.7	10967.6	11667.0
65°	12506.7	12338.7	12182.2	12407.2	13938.1	14063.7	14901.7	13362.6	10902.4	11313.2
67.5°	14311.5	14145.2	13952.8	14164.8	15933.7	16033.2	16259.8	13618.6	10388.8	9950.2
70°	15800.0	15738.1	15968.0	16840.2	19121.1	19124.4	18001.0	13406.6	8981.8	7054.7
72.5°	15602.8	15565.3	16776.6	19473.3	23138.4	23052.0	19649.4	11802.3	6050.3	3182.5
75°	12800.1	13043.1	14919.6	19426.0	24581.3	24569.9	18640.2	7503.0	2502.6	1319.0
77.5°	6863.9	7248.7	9686.1	14342.5	19189.6	19478.2	13105.0	2624.9	1074.4	844.5
80°	2238.5	2574.4	3860.7	7302.5	12469.2	12415.4	5616.7	1030.4	735.3	598.4
82.5°	950.5	989.6	1724.9	3448.3	6399.2	6299.8	1788.5	591.8	516.8	409.2
85°	371.7	415.7	761.4	1594.5	2771.6	2711.3	645.6	293.5	331.0	267.4
87.5°	122.3	148.4	272.3	546.2	862.5	831.5	158.1	101.1	143.5	122.3
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°
4018.9	0°	4018.9	4018.9	4018.9	4018.9	4018.9	4018.9	4018.9	4018.9	4018.9	4018.9
4030.3	2.5°	4053.1	4079.2	4110.2	4155.8	4195.0	4227.6	4261.8	4283.0	4291.2	4315.6
4036.8	5°	4082.5	4139.5	4216.2	4291.2	4364.5	4408.6	4447.7	4467.2	4485.2	4498.2
4054.8	7.5°	4131.4	4204.8	4325.4	4423.2	4485.2	4521.0	4547.1	4540.6	4547.1	4550.4
4074.3	10°	4173.8	4276.5	4420.0	4512.9	4560.2	4561.8	4555.3	4532.5	4521.0	4522.7
4103.7	12.5°	4224.3	4338.4	4493.3	4571.6	4584.6	4548.8	4521.0	4481.9	4467.2	4460.7
4147.7	15°	4292.8	4423.2	4573.2	4602.6	4570.0	4524.3	4477.0	4413.4	4380.8	4354.7
4222.7	17.5°	4375.9	4519.4	4635.2	4614.0	4543.9	4468.9	4392.2	4296.1	4229.2	4201.5
4325.4	20°	4491.7	4620.5	4682.5	4589.5	4483.5	4369.4	4239.0	4121.6	4059.7	4031.9
4455.8	22.5°	4631.9	4755.8	4728.1	4547.1	4397.1	4214.5	4051.5	3965.1	3934.1	3914.5
4623.8	25°	4799.8	4905.8	4760.7	4485.2	4255.3	4009.1	3883.6	3855.9	3841.2	3826.5
4829.2	27.5°	5018.3	5075.4	4785.2	4393.9	4033.6	3790.6	3745.0	3749.9	3745.0	3720.5
5114.5	30°	5306.9	5295.5	4808.0	4245.5	3779.2	3593.4	3596.6	3617.8	3621.1	3604.8
5512.3	32.5°	5686.8	5571.0	4819.4	4053.1	3536.3	3420.5	3423.8	3446.6	3462.9	3435.2
6032.4	35°	6146.5	5892.2	4801.5	3811.8	3348.8	3255.9	3231.4	3237.9	3242.8	3216.7
6663.4	37.5°	6682.9	6252.5	4721.6	3544.4	3193.9	3094.5	3042.3	2998.3	2972.2	2947.7
7377.5	40°	7271.5	6645.4	4574.9	3283.6	3021.1	2923.3	2845.0	2761.9	2673.8	2641.2
8134.0	42.5°	7887.8	7049.8	4397.1	3034.1	2822.2	2742.3	2659.2	2538.5	2406.4	2339.6
8919.8	45°	8526.9	7463.9	4222.7	2788.0	2618.4	2584.2	2488.0	2342.9	2199.4	2114.6
9707.3	47.5°	9153.0	7855.2	3966.7	2540.1	2427.6	2465.1	2390.1	2256.4	2096.7	1963.0
10488.2	50°	9751.3	8222.0	3547.7	2289.1	2272.8	2429.3	2357.5	2165.1	1982.5	1811.4
11254.5	52.5°	10344.8	8518.7	3011.3	2060.8	2189.6	2419.5	2315.1	2103.2	1879.8	1700.5
11975.2	55°	10848.6	8672.0	2494.5	1865.2	2069.0	2336.3	2264.6	2029.8	1734.7	1544.0
12469.2	57.5°	11135.5	8548.1	2064.1	1672.8	1902.7	2199.4	2178.2	1873.3	1561.9	1415.2
12565.4	60°	11011.6	8045.9	1711.9	1504.8	1744.5	2051.0	2028.2	1718.4	1429.8	1291.3
12050.2	62.5°	10328.5	7088.9	1433.1	1358.1	1601.0	1899.4	1878.2	1599.4	1328.8	1195.1
10682.3	65°	8952.4	5766.7	1216.3	1235.8	1455.9	1716.8	1747.8	1500.0	1248.9	1118.4
8264.4	67.5°	6828.0	4177.0	1046.7	1129.9	1314.1	1537.4	1627.1	1428.2	1182.0	1058.1
4781.9	70°	3891.7	2372.2	903.2	1027.1	1188.5	1371.2	1534.2	1371.2	1110.3	1007.6
1791.8	72.5°	1475.5	1089.1	781.0	924.4	1067.9	1230.9	1431.5	1281.5	1027.1	950.5
926.1	75°	787.5	663.6	657.0	803.8	929.3	1094.0	1302.7	1193.4	965.2	1004.3
640.7	77.5°	536.4	469.5	549.4	688.0	777.7	942.4	1165.7	1059.7	836.4	833.1
443.5	80°	371.7	332.6	446.7	554.3	601.6	792.4	1017.4	909.8	681.5	635.8
273.9	82.5°	223.4	216.8	334.2	414.1	425.5	611.4	842.9	763.0	557.6	485.9
163.0	85°	122.3	128.8	213.6	242.9	247.8	427.2	660.3	590.2	428.8	360.3
58.7	87.5°	34.2	44.0	78.3	96.2	119.0	221.7	392.9	350.5	215.2	150.0
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>
4018.9
4314.0
4501.5
4555.3
4525.9
4457.5
4362.9
4203.1
4028.7
3917.8
3826.5
3725.4
3612.9
3448.3
3234.7
2964.0
2655.9
2347.7
2108.1
1948.3
1796.7
1680.9
1527.7
1395.6
1271.7
1173.9
1097.2
1038.6
994.5
937.5
<i>1036.9</i>
767.9
608.1
489.1
363.6
150.0
0.0

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