

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: P941889

Luminaire Tested: **GALN-SB5C-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941889
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-SB5C-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35765 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

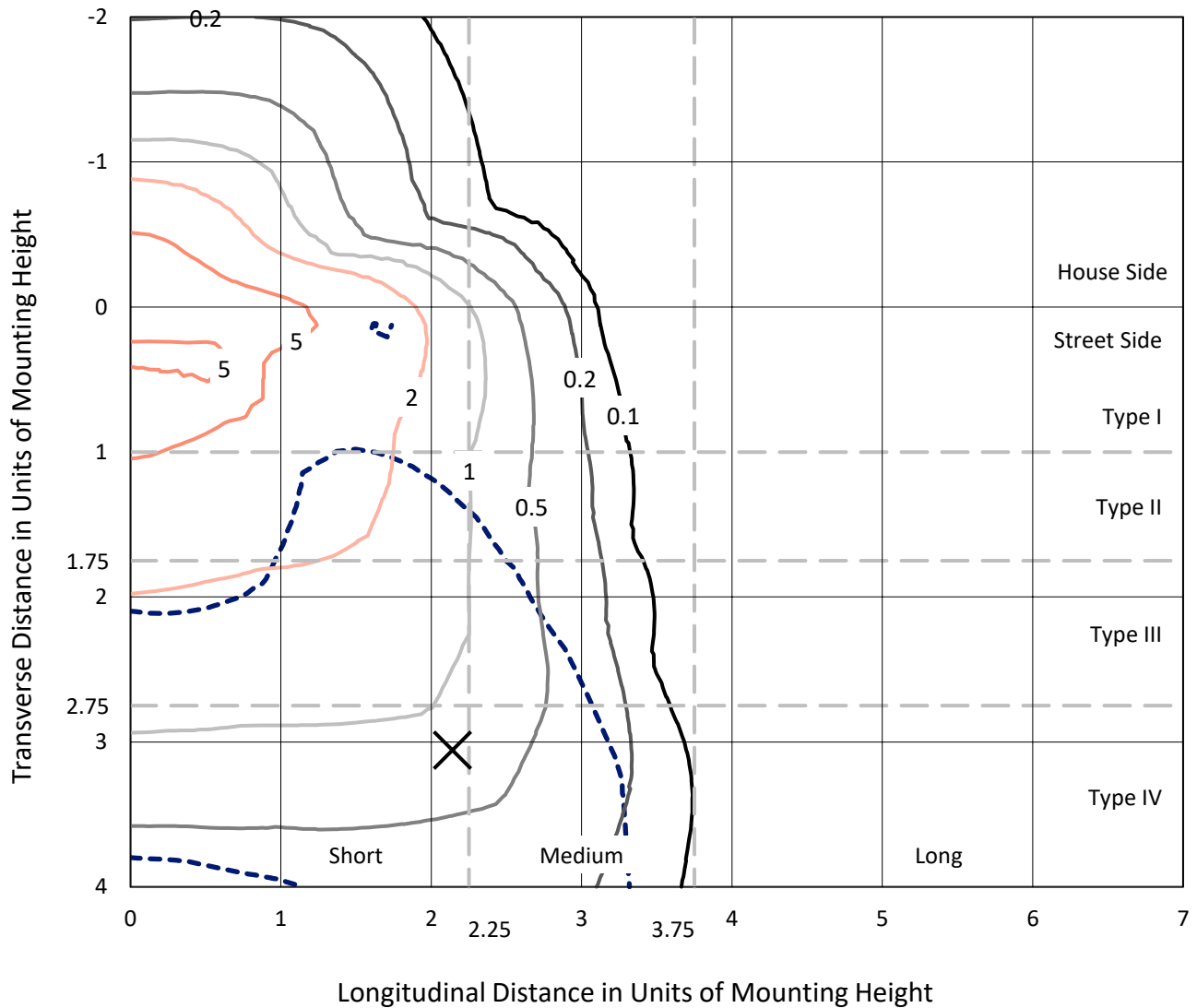
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941889
 CATALOG NUMBER: GALN-SB5C-850-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

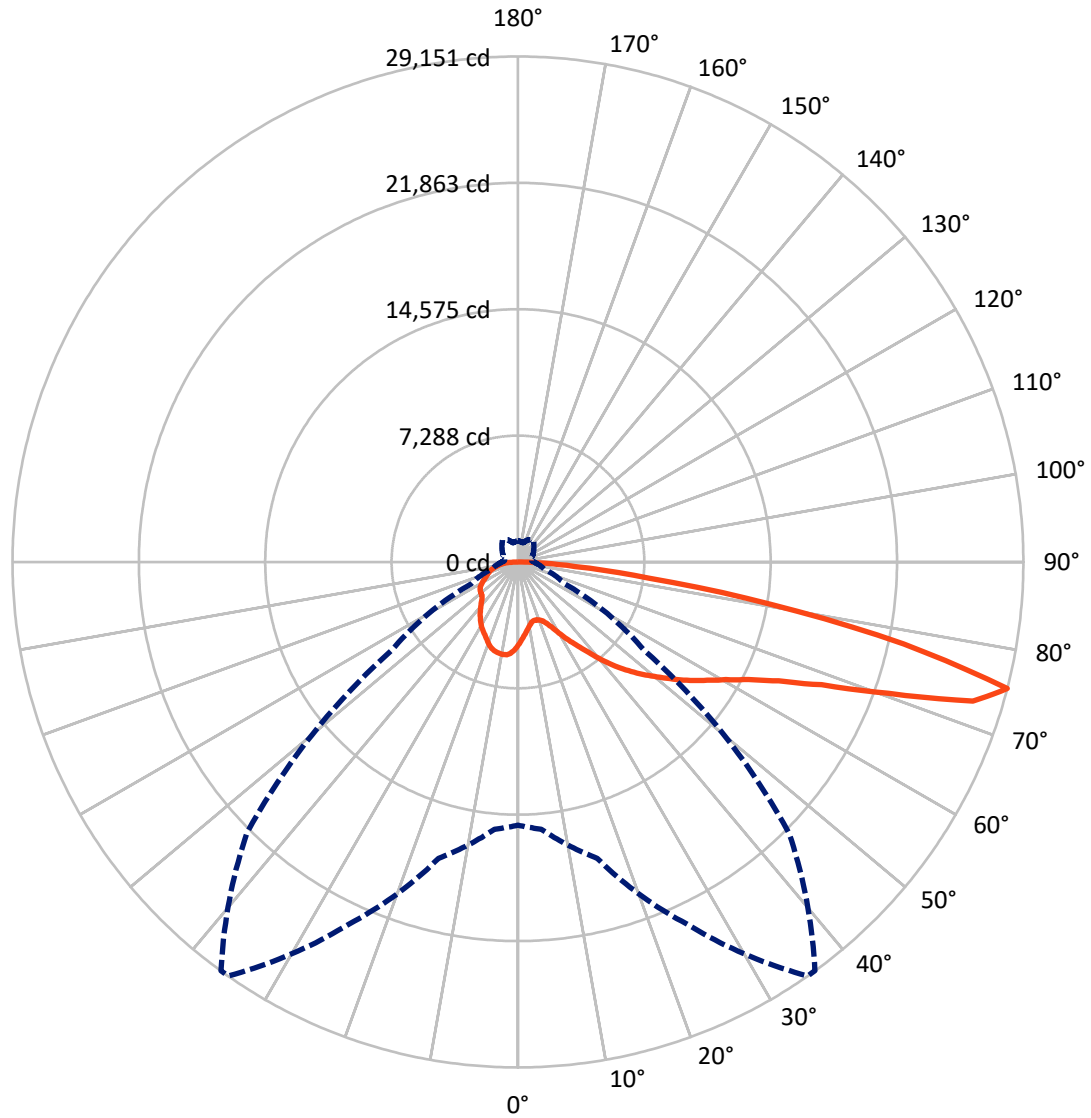
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P941889
CATALOG NUMBER: GALN-SB5C-850-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8511.2	0.0	8511.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	27253.8	0.0	27253.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	35765.0	0.0	35765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.2	1.3
10°-20°	1301.6	3.6
20°-30°	2185.7	6.1
30°-40°	3396.8	9.5
40°-50°	5041.8	14.1
50°-60°	6960.5	19.5
60°-70°	8444.7	23.6
70°-80°	6978.9	19.5
80°-90°	1003.8	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°	35765.0	100.0
0°-180°	35765.0	100.0

Coefficient of Utilization



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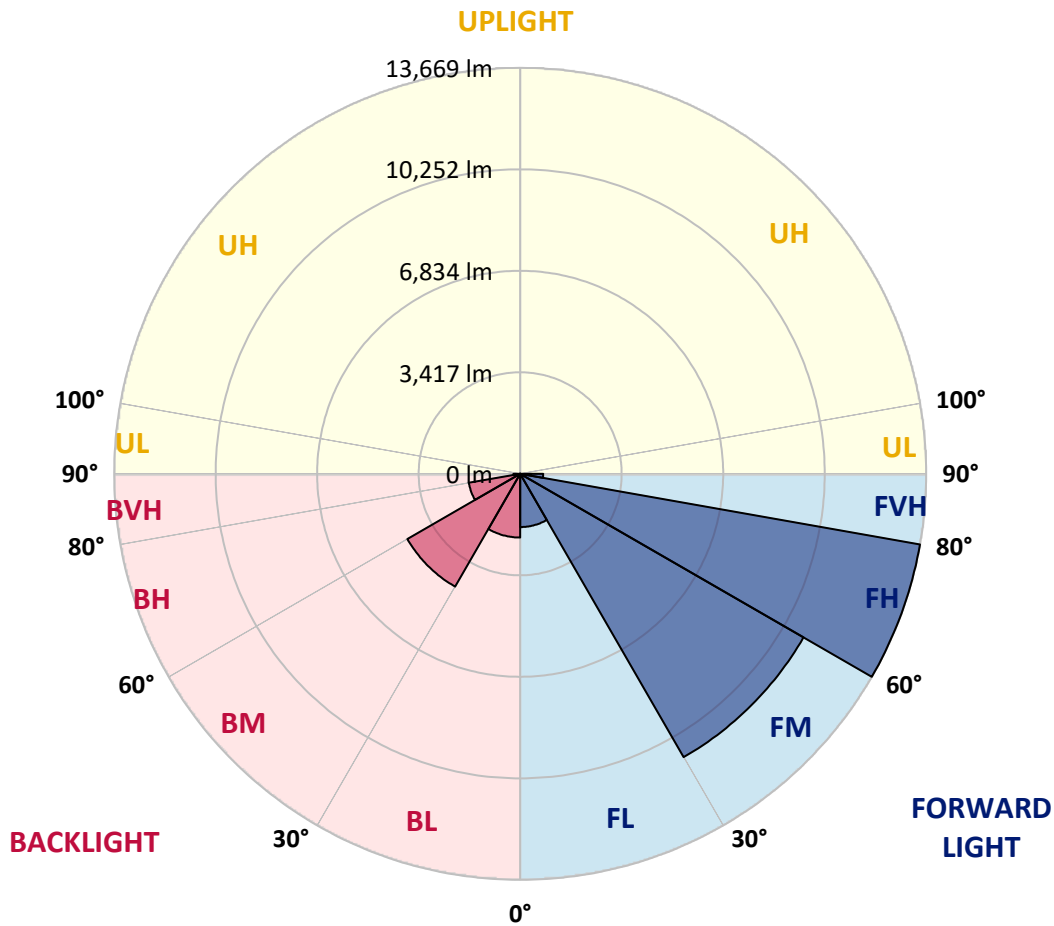
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1793.5	5.0			
FM (30°-60°)	11013.7	30.8			
FH (60°-80°)	13668.8	38.2			G5
FVH (80°-90°)	777.7	2.2			G5
BL (0°-30°)	2144.9	6.0	B3/2500		
BM (30°-60°)	4385.5	12.3	B3/5000		
BH (60°-80°)	1754.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	226.0	0.6			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



REPORT NUMBER: P941889

CATALOG NUMBER: GALN-SB5C-850-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4765.9	4765.9	4765.9	4765.9	4765.9	4765.9	4765.9	4765.9	4765.9	4765.9
2.5°	4394.7	4421.8	4433.4	4427.6	4456.6	4452.7	4493.3	4543.6	4613.2	4680.9
5°	4056.4	4085.4	4110.5	4133.7	4189.8	4207.2	4271.0	4367.6	4495.2	4624.8
7.5°	3741.2	3766.3	3805.0	3847.5	3942.3	3959.7	4066.0	4216.8	4394.7	4584.2
10°	3484.1	3509.2	3549.8	3598.1	3716.1	3737.3	3872.7	4073.8	4305.8	4545.5
12.5°	3373.9	3381.6	3404.8	3453.1	3555.6	3569.1	3718.0	3948.1	4218.8	4516.5
15°	3368.1	3383.5	3385.5	3410.6	3495.7	3501.5	3638.7	3866.9	4164.6	4510.7
17.5°	3426.1	3437.7	3420.3	3435.7	3507.3	3516.9	3625.2	3828.2	4147.2	4535.8
20°	3580.7	3590.4	3538.2	3516.9	3569.1	3576.9	3683.2	3853.3	4164.6	4588.1
22.5°	3909.4	3915.2	3787.6	3700.6	3704.5	3708.3	3801.1	3955.8	4232.3	4682.8
25°	4421.8	4417.9	4214.9	4046.7	3950.0	3928.7	3990.6	4122.1	4346.4	4808.5
27.5°	5021.1	4992.1	4789.1	4537.8	4327.0	4296.1	4282.6	4338.6	4508.8	4974.7
30°	5697.8	5670.8	5452.3	5123.6	4831.7	4781.4	4653.8	4624.8	4750.5	5201.0
32.5°	6440.3	6422.9	6161.9	5763.6	5373.0	5315.0	5100.4	5023.1	5121.7	5543.2
35°	7062.9	7047.4	6830.8	6421.0	5943.4	5871.9	5653.4	5566.4	5616.6	5982.1
37.5°	7625.5	7617.8	7432.1	7109.3	6616.2	6529.2	6283.7	6254.7	6245.0	6560.2
40°	8147.5	8128.2	7934.8	7764.7	7399.3	7320.0	7103.5	7078.3	7004.9	7271.7
42.5°	8725.6	8675.3	8395.0	8315.7	8217.1	8151.4	8021.8	8025.7	7863.3	8074.0
45°	9197.4	9168.4	8880.3	8833.9	8940.2	8913.2	9025.3	9054.3	8739.1	8915.1
47.5°	9703.9	9676.9	9433.3	9400.4	9688.5	9696.2	10092.6	10102.2	9593.7	9789.0
50°	10328.4	10289.8	10048.1	10088.7	10411.6	10440.6	11165.6	11099.9	10380.6	10676.5
52.5°	10740.3	10763.5	10711.3	10777.0	11217.8	11244.9	12221.3	12053.1	11159.8	11552.3
55°	11043.8	11090.2	11252.6	11403.4	12068.5	12095.6	13217.0	12959.8	11805.6	12364.3
57.5°	11434.4	11368.6	11672.2	11966.1	12876.7	12948.2	14185.6	13833.8	12377.9	13064.3
60°	11995.1	11948.7	12184.5	12619.6	13781.6	13895.6	15210.4	14620.7	12797.4	13619.1
62.5°	13131.9	13015.9	13052.6	13437.4	14922.3	15073.1	16366.6	15307.0	13006.2	13835.7
65°	14831.4	14632.3	14446.7	14713.5	16529.0	16677.8	17671.6	15846.5	12928.9	13416.1
67.5°	16971.7	16774.5	16546.4	16797.7	18895.5	19013.4	19282.2	16150.0	12319.9	11799.8
70°	18737.0	18663.5	18936.1	19970.5	22675.4	22679.2	21347.1	15898.7	10651.3	8366.0
72.5°	18503.0	18458.5	19895.1	23093.0	27439.4	27336.9	23301.8	13996.2	7175.0	3774.1
75°	15179.4	15467.5	17692.9	23036.9	29150.5	29136.9	22105.0	8897.7	2967.8	1564.2
77.5°	8139.8	8596.1	11486.6	17008.5	22756.6	23098.8	15541.0	3112.8	1274.1	1001.5
80°	2654.6	3052.9	4578.4	8659.9	14786.9	14723.1	6660.7	1221.9	872.0	709.6
82.5°	1127.2	1173.6	2045.6	4089.2	7588.7	7470.8	2121.0	701.8	612.9	485.3
85°	440.8	493.0	902.9	1890.9	3286.8	3215.3	765.6	348.0	392.5	317.1
87.5°	145.0	175.9	322.9	647.7	1022.8	986.1	187.5	119.9	170.1	145.0
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°
4765.9	0°	4765.9	4765.9	4765.9	4765.9	4765.9	4765.9	4765.9	4765.9	4765.9	4765.9
4779.5	2.5°	4806.5	4837.5	4874.2	4928.3	4974.7	5013.4	5054.0	5079.1	5088.8	5117.8
4787.2	5°	4841.3	4909.0	4999.9	5088.8	5175.8	5228.0	5274.4	5297.6	5318.9	5334.4
4808.5	7.5°	4899.3	4986.3	5129.4	5245.4	5318.9	5361.4	5392.4	5384.6	5392.4	5396.2
4831.7	10°	4949.6	5071.4	5241.6	5351.8	5407.8	5409.8	5402.0	5375.0	5361.4	5363.4
4866.5	12.5°	5009.5	5144.9	5328.6	5421.4	5436.8	5394.3	5361.4	5315.0	5297.6	5289.9
4918.7	15°	5090.7	5245.4	5423.3	5458.1	5419.4	5365.3	5309.2	5233.8	5195.2	5164.2
5007.6	17.5°	5189.4	5359.5	5496.8	5471.6	5388.5	5299.6	5208.7	5094.6	5015.3	4982.5
5129.4	20°	5326.6	5479.4	5552.8	5442.6	5317.0	5181.6	5026.9	4887.7	4814.3	4781.4
5284.1	22.5°	5492.9	5639.8	5607.0	5392.4	5214.5	4997.9	4804.6	4702.1	4665.4	4642.2
5483.2	25°	5692.0	5817.7	5645.6	5318.9	5046.3	4754.3	4605.5	4572.6	4555.2	4537.8
5726.8	27.5°	5951.1	6018.8	5674.6	5210.6	4783.3	4495.2	4441.1	4446.9	4441.1	4412.1
6065.2	30°	6293.3	6279.8	5701.7	5034.7	4481.7	4261.3	4265.2	4290.3	4294.2	4274.8
6537.0	32.5°	6743.8	6606.6	5715.2	4806.5	4193.6	4056.4	4060.2	4087.3	4106.6	4073.8
7153.7	35°	7289.1	6987.5	5694.0	4520.4	3971.3	3861.1	3832.1	3839.8	3845.6	3814.7
7902.0	37.5°	7925.2	7414.7	5599.2	4203.3	3787.6	3669.7	3607.8	3555.6	3524.7	3495.7
8748.8	40°	8623.1	7880.7	5425.2	3893.9	3582.7	3466.7	3373.9	3275.2	3170.8	3132.2
9645.9	42.5°	9354.0	8360.2	5214.5	3598.1	3346.8	3252.0	3153.4	3010.4	2853.8	2774.5
10577.8	45°	10111.9	8851.3	5007.6	3306.2	3105.1	3064.5	2950.4	2778.4	2608.2	2507.7
11511.7	47.5°	10854.3	9315.3	4704.1	3012.3	2878.9	2923.4	2834.4	2675.9	2486.4	2327.9
12437.8	50°	11563.9	9750.3	4207.2	2714.5	2695.2	2880.8	2795.8	2567.6	2351.1	2148.1
13346.5	52.5°	12267.7	10102.2	3571.1	2443.9	2596.6	2869.2	2745.5	2494.1	2229.3	2016.6
14201.1	55°	12865.1	10284.0	2958.2	2211.9	2453.5	2770.6	2685.5	2407.1	2057.2	1831.0
14786.9	57.5°	13205.4	10137.0	2447.7	1983.7	2256.3	2608.2	2583.1	2221.5	1852.2	1678.2
14901.0	60°	13058.4	9541.5	2030.1	1784.6	2068.8	2432.3	2405.2	2037.8	1695.6	1531.3
14290.1	62.5°	12248.3	8406.6	1699.5	1610.6	1898.6	2252.5	2227.3	1896.7	1575.8	1417.2
12667.9	65°	10616.5	6838.6	1442.3	1465.5	1726.6	2035.9	2072.6	1778.8	1481.0	1326.3
9800.6	67.5°	8097.2	4953.5	1241.3	1339.9	1558.4	1823.2	1929.6	1693.7	1401.7	1254.8
5670.8	70°	4615.1	2813.2	1071.1	1218.1	1409.5	1626.0	1819.4	1626.0	1316.7	1194.9
2124.8	72.5°	1749.8	1291.5	926.1	1096.3	1266.4	1459.7	1697.6	1519.7	1218.1	1127.2
1098.2	75°	933.9	786.9	779.2	953.2	1102.1	1297.3	1544.8	1415.3	1144.6	1191.0
759.8	77.5°	636.1	556.8	651.6	815.9	922.3	1117.5	1382.4	1256.7	991.9	988.0
525.9	80°	440.8	394.4	529.8	657.4	713.4	939.7	1206.5	1078.9	808.2	754.0
324.8	82.5°	264.9	257.1	396.4	491.1	504.6	725.0	999.6	904.8	661.2	576.2
193.3	85°	145.0	152.7	253.3	288.1	293.9	506.6	783.0	699.9	508.5	427.3
69.6	87.5°	40.6	52.2	92.8	114.1	141.1	262.9	466.0	415.7	255.2	177.9
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>
4765.9
5115.9
5338.2
5402.0
5367.2
5286.0
5173.9
4984.4
4777.5
4646.1
4537.8
4417.9
4284.5
4089.2
3835.9
3515.0
3149.6
2784.2
2499.9
2310.5
2130.7
1993.4
1811.6
1655.0
1508.1
1392.1
1301.2
1231.6
1179.4
1111.7
1229.7
910.6
721.2
580.0
431.2
177.9
0.0

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