

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: P943588

Luminaire Tested: **GALN-SB8A-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8A-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26270 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

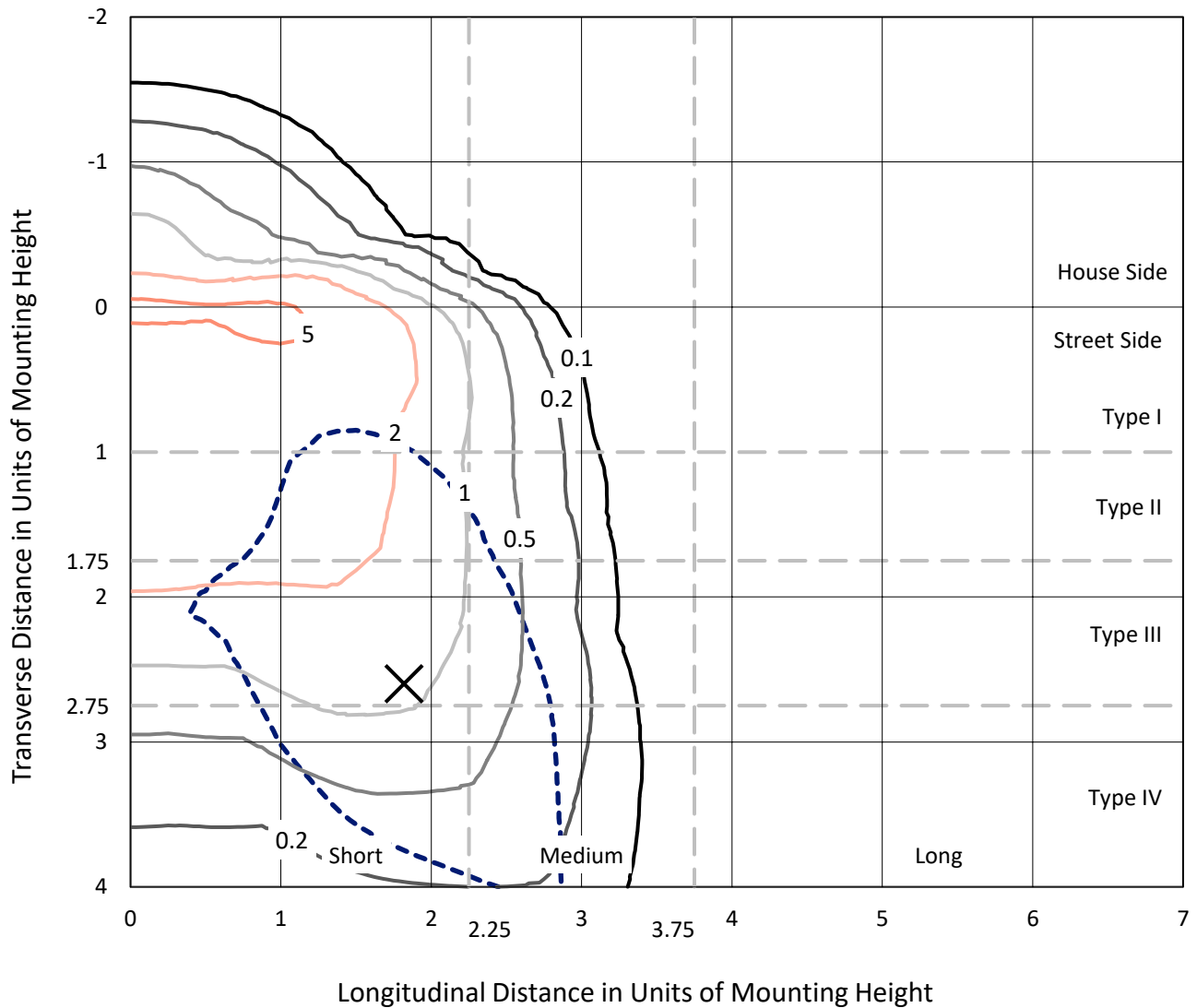
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

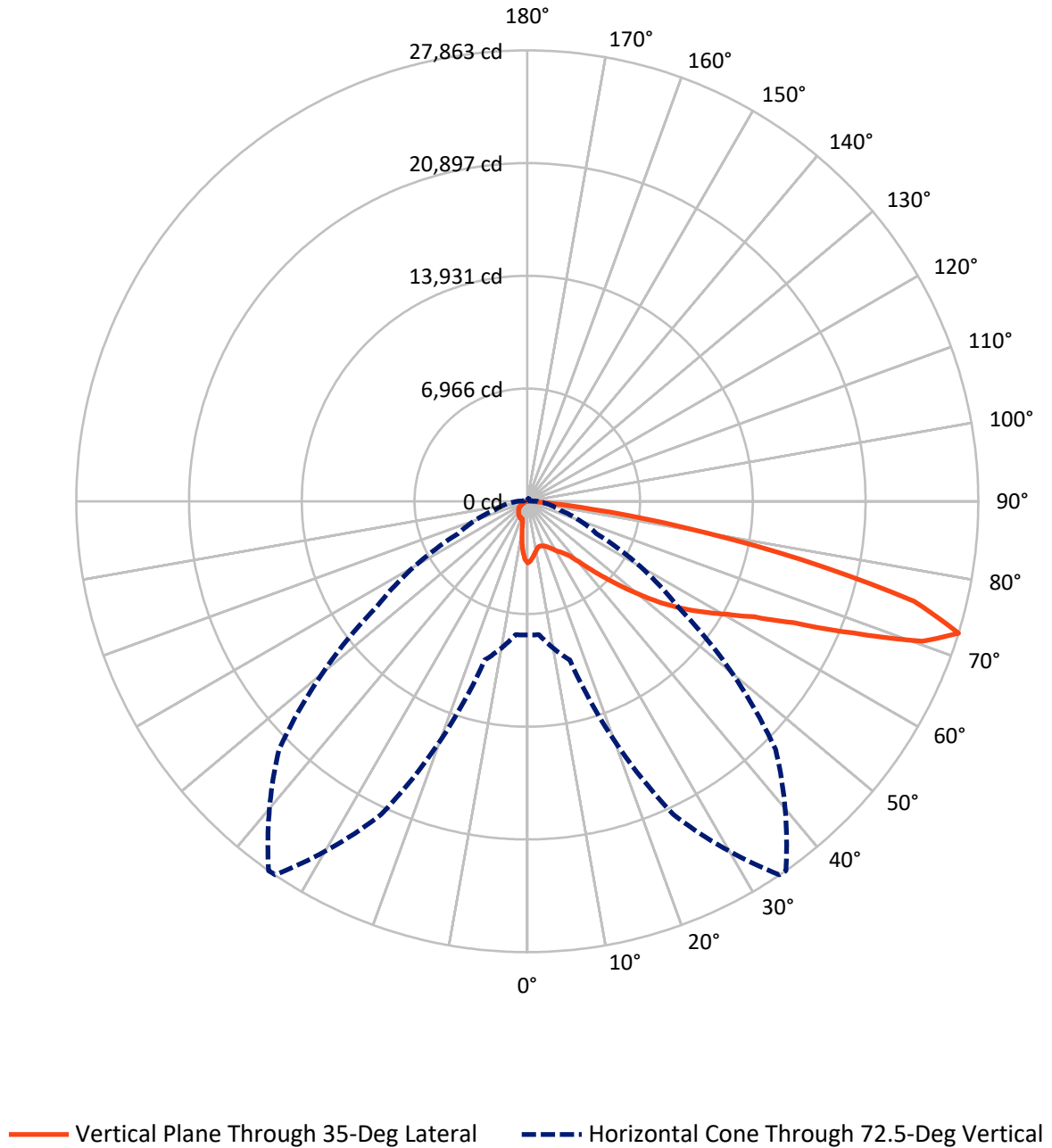
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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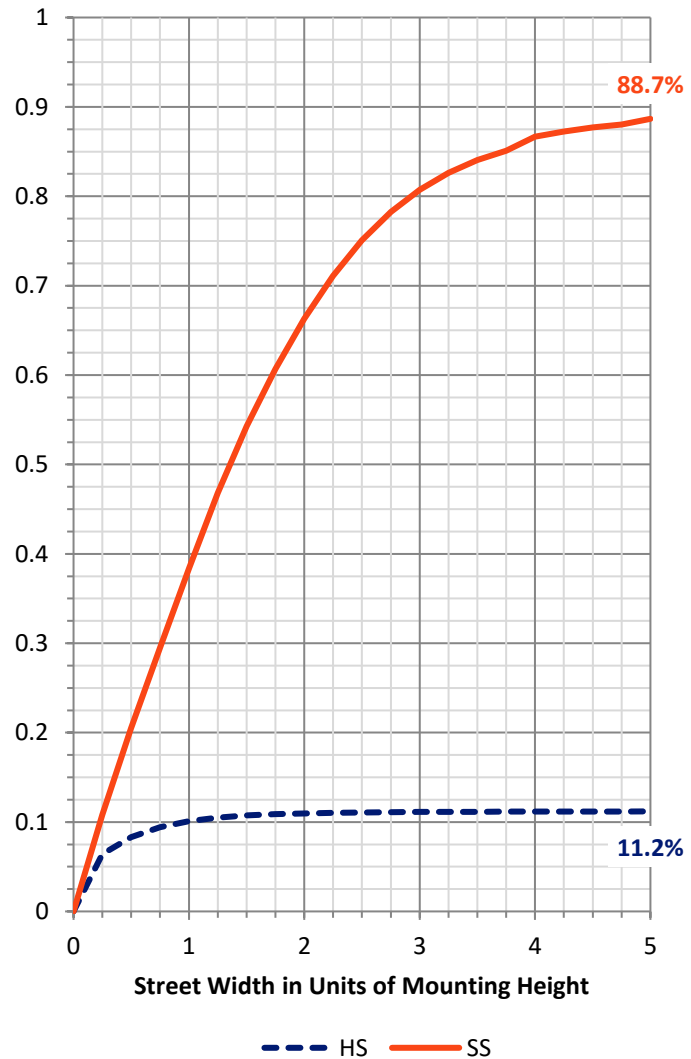
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2956.6	0.0	2956.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	23313.4	0.0	23313.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	26270.0	0.0	26270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.9	1.2
10°-20°	731.9	2.8
20°-30°	1189.0	4.5
30°-40°	1983.8	7.6
40°-50°	3753.4	14.3
50°-60°	5964.1	22.7
60°-70°	7378.0	28.1
70°-80°	4586.2	17.5
80°-90°	370.6	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°	26270.0	100.0
0°-180°	26270.0	100.0

Coefficient of Utilization



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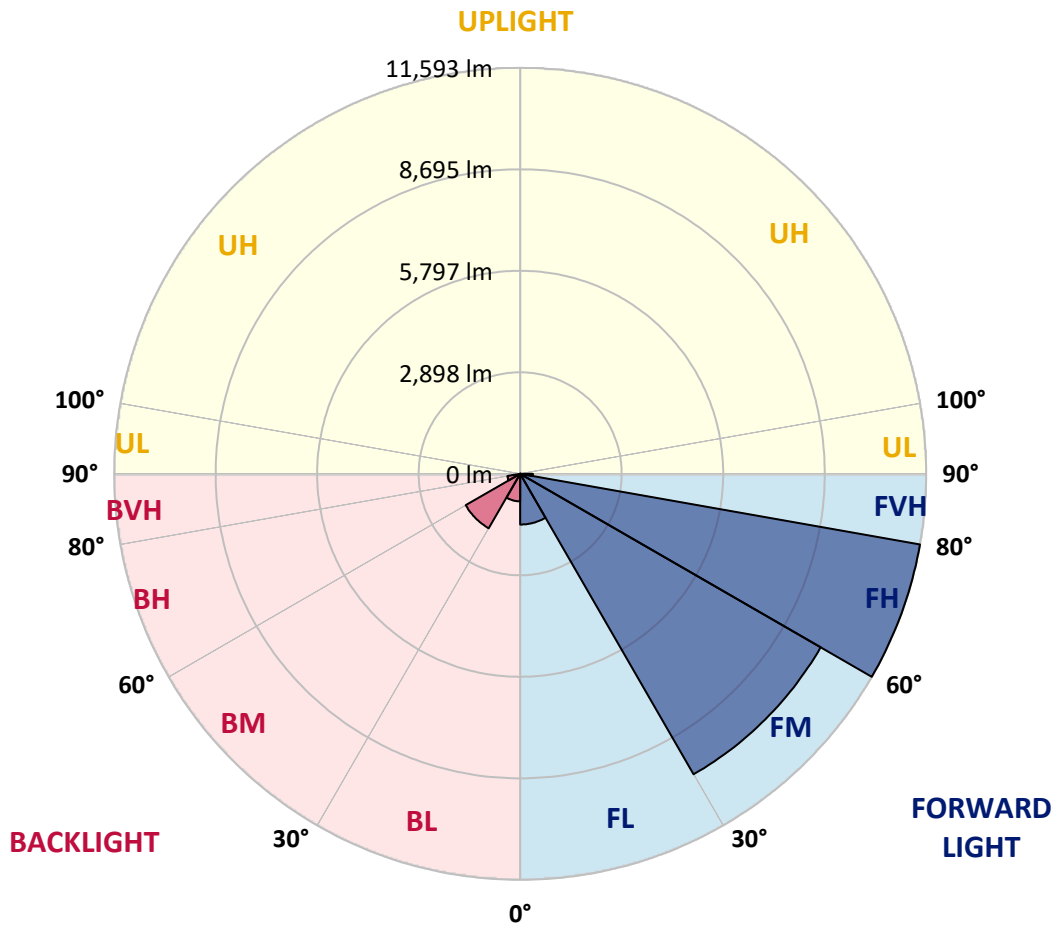
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1448.1	5.5			
FM (30°-60°)	9906.4	37.7			
FH (60°-80°)	11593.3	44.1			G4/12000
FVH (80°-90°)	365.6	1.4			G3/500
BL (0°-30°)	785.6	3.0	B2/1000		
BM (30°-60°)	1794.9	6.8	B2/2500		
BH (60°-80°)	371.0	1.4	B1/500		G1/500
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3807.4	3807.4	3807.4	3807.4	3807.4	3807.4	3807.4	3807.4	3807.4	3807.4
2.5°	3638.0	3668.8	3674.6	3684.2	3684.2	3695.8	3715.0	3742.0	3786.2	3809.3
5°	3353.1	3376.2	3405.1	3428.2	3472.5	3478.3	3553.3	3626.5	3728.5	3805.5
7.5°	3066.3	3093.3	3131.8	3187.6	3245.3	3262.7	3376.2	3499.4	3661.1	3805.5
10°	2864.2	2866.1	2900.8	2956.6	3049.0	3070.2	3208.8	3383.9	3586.0	3782.4
12.5°	2750.6	2764.1	2779.5	2821.9	2910.4	2923.9	3072.1	3278.1	3511.0	3768.9
15°	2750.6	2760.3	2769.9	2791.1	2862.3	2873.8	3004.7	3210.7	3472.5	3774.7
17.5°	2779.5	2794.9	2787.2	2812.2	2887.3	2895.0	3010.5	3191.4	3470.6	3811.3
20°	2848.8	2860.4	2845.0	2860.4	2935.4	2950.8	3070.2	3228.0	3503.3	3874.8
22.5°	2958.5	2964.3	2927.7	2939.3	3016.3	3035.5	3174.1	3332.0	3582.2	3976.8
25°	3097.1	3108.7	3052.9	3066.3	3139.5	3162.6	3322.3	3487.9	3707.3	4117.3
27.5°	3256.9	3262.7	3214.5	3212.6	3306.9	3339.7	3501.3	3680.4	3874.8	4294.4
30°	3439.8	3457.1	3410.9	3403.2	3522.5	3549.5	3709.2	3917.1	4121.2	4560.0
32.5°	3584.1	3597.6	3570.6	3589.9	3711.2	3732.3	3961.4	4252.1	4508.1	4937.3
35°	3792.0	3799.7	3738.1	3772.8	3911.3	3965.2	4305.9	4721.7	4995.1	5410.8
37.5°	4544.6	4544.6	4282.8	4111.5	4244.4	4292.5	4777.5	5312.7	5595.6	6046.0
40°	5586.0	5568.7	5185.6	4835.3	4818.0	4912.3	5449.3	6057.6	6371.3	6808.3
42.5°	6696.6	6669.7	6148.1	5801.6	5743.8	5776.6	6225.0	6975.7	7295.3	7738.0
45°	7682.2	7674.5	7197.1	6731.3	6627.3	6731.3	7193.3	8049.8	8278.9	8744.7
47.5°	8507.9	8507.9	8159.5	7855.4	7801.5	7863.1	8504.1	9241.3	9220.2	9816.9
50°	9458.8	9451.1	9120.1	8989.2	9045.0	9131.6	10013.2	10496.3	10194.1	10869.8
52.5°	10124.8	10171.0	10057.5	10036.3	10321.2	10471.3	11545.4	11724.4	11066.1	11868.8
55°	10652.3	10706.2	10837.0	10985.3	11533.9	11730.2	13029.5	12889.0	11795.6	12735.0
57.5°	11399.1	11322.1	11524.2	11816.8	12704.2	12940.9	14467.4	13988.1	12382.7	13437.6
60°	12305.7	12317.3	12351.9	12721.5	13872.6	14176.7	15884.1	15027.5	12760.0	13868.7
62.5°	13395.2	13412.5	13483.8	14051.6	15441.4	15728.2	17393.2	15878.3	12933.2	13747.5
65°	13320.1	13393.3	14188.3	16130.5	17826.3	18109.2	19154.4	16475.0	12671.5	12638.7
67.5°	12134.4	12253.8	13583.8	18613.5	21421.9	21737.6	21283.3	16592.4	11541.6	9828.4
70°	10579.1	10621.5	12221.0	20846.4	25585.4	25905.0	23189.0	15300.8	8758.2	5482.0
72.5°	8261.6	8271.2	10147.9	21364.2	27845.2	27862.6	21693.3	11358.7	4710.2	2105.8
75°	5901.7	5843.9	6796.7	17325.8	24497.9	24694.2	16263.3	5328.1	1799.8	995.2
77.5°	3164.5	3228.0	3845.9	10275.0	16923.5	17258.4	8873.7	1536.1	916.2	677.6
80°	977.8	1031.7	1576.5	4704.4	9585.9	9788.0	3289.6	683.3	639.1	483.1
82.5°	308.0	319.5	735.3	1976.8	3978.7	4071.1	952.8	386.9	436.9	319.5
85°	88.5	90.5	327.2	737.2	983.6	1002.9	267.6	150.1	250.2	198.3
87.5°	9.6	30.8	123.2	123.2	86.6	84.7	28.9	32.7	71.2	25.0
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°
3807.4	0°	3807.4	3807.4	3807.4	3807.4	3807.4	3807.4	3807.4	3807.4	3807.4	3807.4
3824.7	2.5°	3815.1	3817.0	3792.0	3749.7	3703.5	3665.0	3616.8	3578.3	3551.4	3543.7
3859.4	5°	3842.1	3828.6	3757.4	3628.4	3474.4	3341.6	3193.4	3076.0	2999.0	2966.2
3895.9	7.5°	3882.5	3844.0	3688.1	3434.0	3139.5	2877.7	2612.1	2406.1	2275.2	2209.8
3930.6	10°	3917.1	3840.1	3572.6	3152.9	2702.5	2306.0	1948.0	1699.7	1561.1	1495.6
3971.0	12.5°	3949.8	3838.2	3422.4	2819.9	2209.8	1724.7	1391.7	1268.5	1230.0	1216.5
4036.5	15°	4011.4	3844.0	3233.8	2438.8	1718.9	1303.1	1181.9	1179.9	1187.6	1183.8
4136.6	17.5°	4096.1	3849.8	3020.1	2034.6	1326.2	1149.2	1143.4	1160.7	1172.2	1166.5
4261.7	20°	4205.9	3872.8	2793.0	1634.2	1139.5	1110.7	1124.1	1139.5	1149.2	1139.5
4429.1	22.5°	4359.8	3913.3	2544.7	1312.8	1079.9	1087.6	1099.1	1116.4	1126.1	1112.6
4642.8	25°	4548.5	3976.8	2300.2	1141.5	1051.0	1060.6	1077.9	1097.2	1108.7	1095.3
4912.3	27.5°	4792.9	4078.8	2075.0	1103.0	1022.1	1027.9	1052.9	1081.8	1097.2	1079.9
5295.3	30°	5147.1	4246.3	1880.6	1120.3	1004.8	991.3	1026.0	1066.4	1083.7	1068.3
5817.0	32.5°	5616.8	4483.0	1761.3	1147.2	997.1	949.0	981.7	1033.7	1062.5	1052.9
6498.4	35°	6232.7	4843.0	1715.1	1178.0	991.3	904.7	927.8	983.6	1033.7	1043.3
7356.9	37.5°	6979.6	5343.5	1728.5	1191.5	974.0	868.1	879.7	927.8	993.2	1024.0
8323.2	40°	7828.5	5926.7	1805.5	1178.0	954.7	837.3	839.2	875.8	933.6	979.8
9362.6	42.5°	8704.3	6608.1	1948.0	1128.0	937.4	810.4	804.6	829.6	868.1	900.8
10400.1	45°	9537.8	7308.8	2088.5	1058.7	916.2	783.4	770.0	779.6	787.3	800.7
11410.7	47.5°	10265.4	7801.5	2048.1	995.2	887.4	752.6	729.5	725.7	702.6	700.7
12313.4	50°	10767.8	7909.3	1819.0	931.6	845.0	718.0	681.4	658.3	617.9	598.6
12989.1	52.5°	10927.5	7483.9	1486.0	868.1	775.7	671.8	619.8	583.2	533.2	515.9
13377.9	55°	10715.8	6650.4	1187.6	791.1	679.5	610.2	552.4	504.3	463.9	442.7
13420.2	57.5°	10198.0	5589.8	939.3	700.7	577.5	540.9	483.1	435.0	400.4	379.2
12950.6	60°	9339.5	4438.8	743.0	592.9	492.8	465.8	406.1	375.4	344.6	319.5
11737.9	62.5°	8036.4	3168.3	583.2	469.7	411.9	381.1	346.5	323.4	286.8	252.2
9557.0	65°	6271.2	1938.3	450.4	344.6	331.1	315.7	294.5	273.3	229.1	194.4
6234.7	67.5°	3955.6	918.2	321.5	259.9	261.8	254.1	244.5	227.1	194.4	163.6
2793.0	70°	1742.0	444.6	211.7	198.3	194.4	194.4	202.1	196.3	165.5	136.7
970.1	72.5°	592.9	238.7	157.8	150.1	140.5	138.6	169.4	163.6	132.8	105.9
483.1	75°	309.9	159.8	115.5	107.8	84.7	102.0	134.7	127.0	94.3	69.3
319.5	77.5°	202.1	113.6	78.9	69.3	48.1	67.4	100.1	88.5	55.8	34.6
209.8	80°	127.0	75.1	46.2	32.7	23.1	36.6	53.9	38.5	21.2	7.7
123.2	82.5°	67.4	38.5	17.3	11.5	9.6	11.5	13.5	9.6	3.8	0.0
63.5	85°	26.9	13.5	5.8	3.8	1.9	0.0	3.8	1.9	0.0	0.0
11.5	87.5°	9.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
3807.4
3557.2
2977.8
2219.4
1497.6
1212.7
1181.9
1164.5
1137.6
1110.7
1093.3
1079.9
1066.4
1052.9
1043.3
1031.7
995.2
914.3
808.4
698.7
600.6
513.9
442.7
375.4
313.8
246.4
188.6
159.8
130.9
<i>100.1</i>
63.5
30.8
5.8
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