

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: P952220

Luminaire Tested: **GALN-SB6A-850-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6A-850-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20042 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

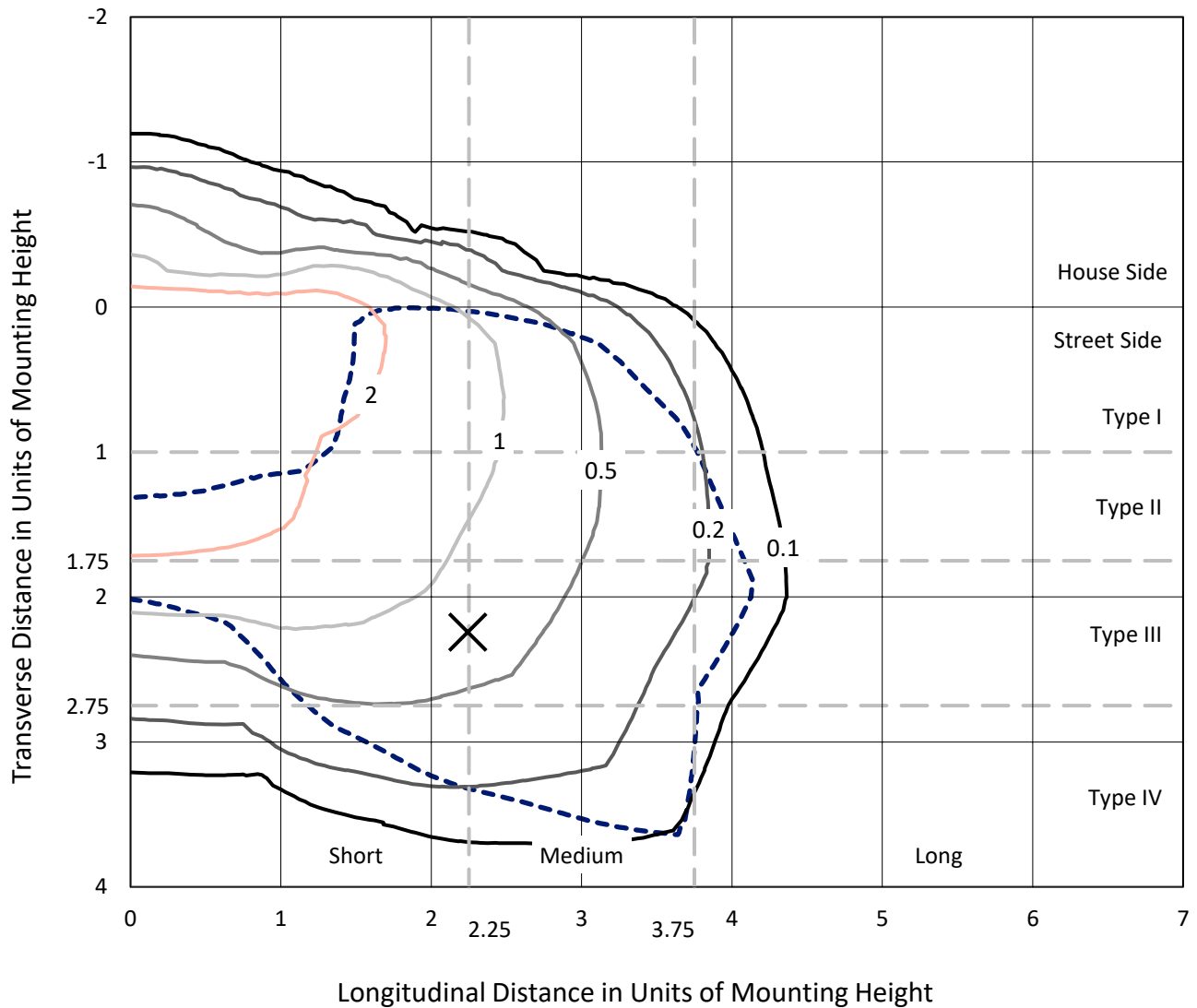
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

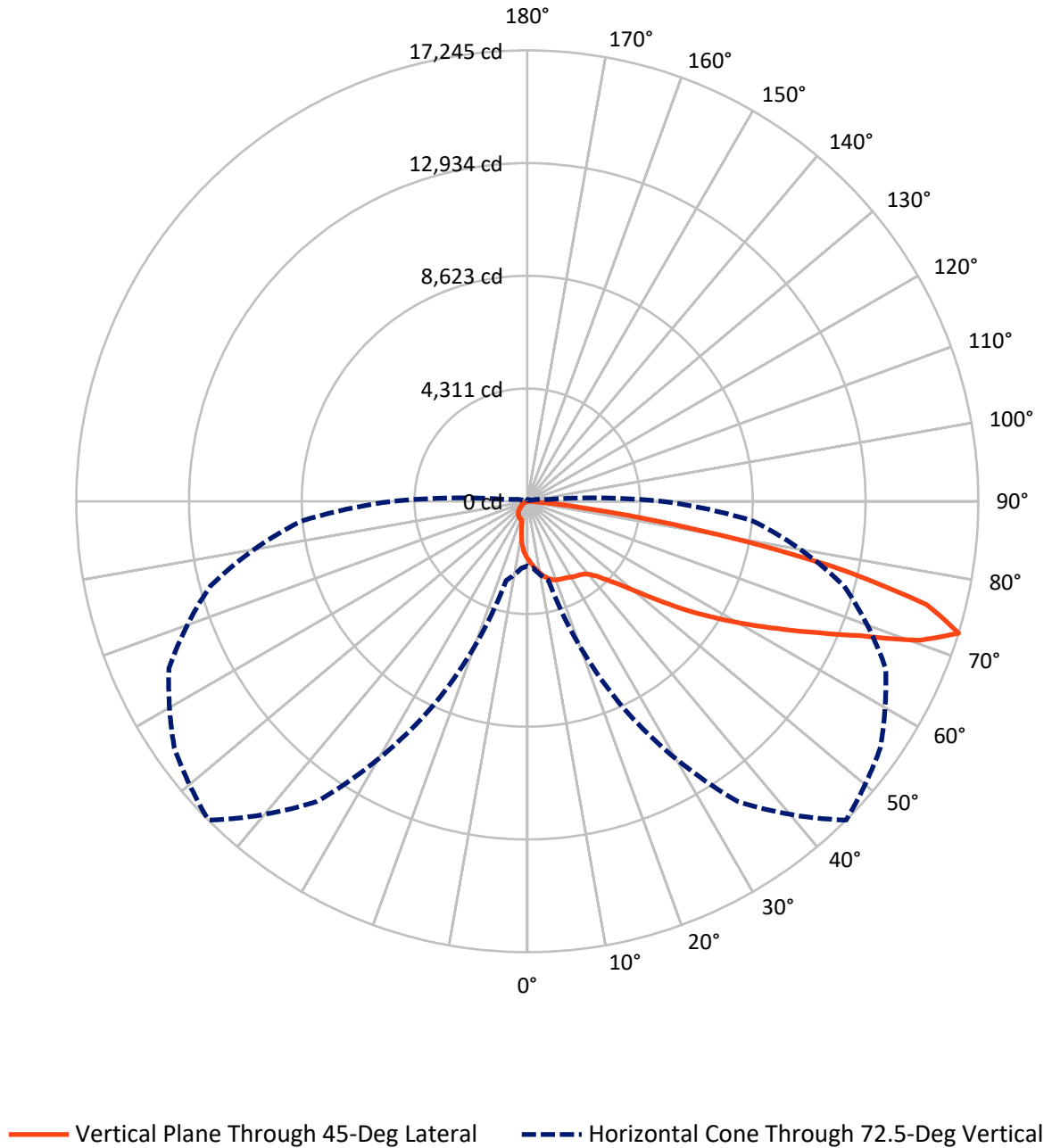
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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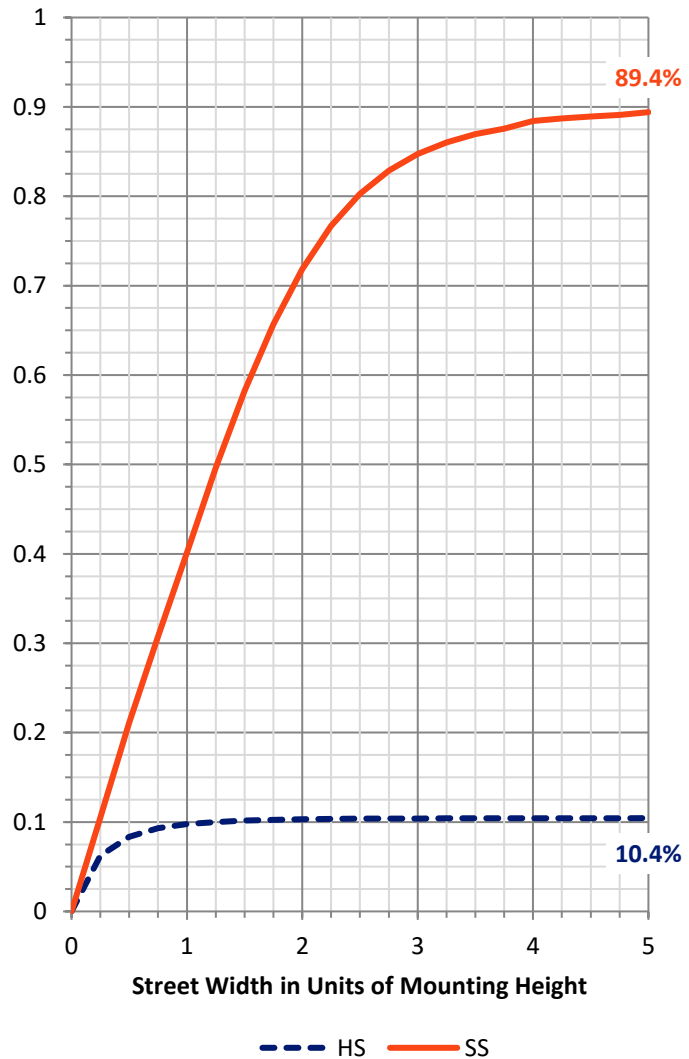
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2105.9	0.0	2105.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	17936.1	0.0	17936.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	20042.0	0.0	20042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	1.0
10°-20°	604.6	3.0
20°-30°	992.9	5.0
30°-40°	1408.1	7.0
40°-50°	2327.4	11.6
50°-60°	4181.0	20.9
60°-70°	5805.5	29.0
70°-80°	4211.1	21.0
80°-90°	304.4	1.5
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°	20042.0	100.0
0°-180°	20042.0	100.0

Coefficient of Utilization



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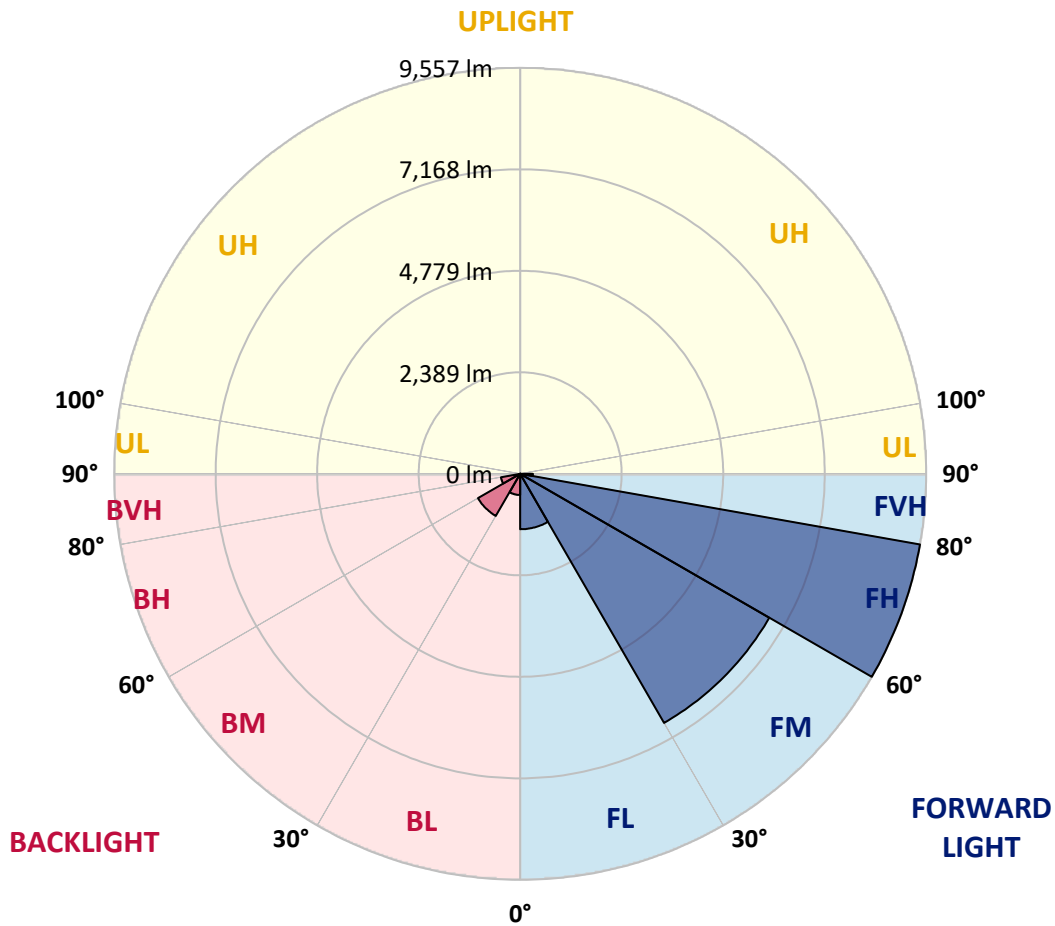
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1305.5	6.5			
FM (30°-60°)	6771.3	33.8			
FH (60°-80°)	9557.5	47.7			G4/12000
FVH (80°-90°)	301.9	1.5			G3/500
BL (0°-30°)	498.8	2.5	B1/500		
BM (30°-60°)	1145.3	5.7	B2/2500		
BH (60°-80°)	459.2	2.3	B1/500		G1/500
BVH (80°-90°)	2.6	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°	35°	45°	46°	55°	65°	75°
0°	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6
2.5°	2398.1	2402.2	2399.5	2383.1	2355.7	2340.7	2332.4	2305.1	2287.3	2255.8
5°	2618.4	2634.8	2625.2	2592.4	2540.4	2503.4	2492.5	2436.4	2385.8	2327.0
7.5°	2852.3	2860.5	2842.7	2800.3	2730.5	2667.6	2658.0	2580.1	2499.3	2409.1
10°	3054.7	3064.3	3037.0	2975.4	2896.1	2818.1	2804.4	2718.2	2622.5	2511.7
12.5°	3224.4	3234.0	3198.4	3124.5	3037.0	2956.3	2942.6	2852.3	2746.9	2623.8
15°	3353.0	3370.8	3322.9	3243.5	3149.1	3068.4	3061.6	2972.7	2870.1	2733.3
17.5°	3428.2	3446.0	3400.9	3305.1	3224.4	3156.0	3147.8	3073.9	2978.1	2846.8
20°	3440.5	3456.9	3409.1	3325.6	3258.6	3203.9	3199.8	3146.4	3076.6	2950.8
22.5°	3403.6	3424.1	3380.3	3313.3	3266.8	3238.1	3232.6	3202.5	3162.8	3056.1
25°	3365.3	3381.7	3348.9	3290.0	3265.4	3262.7	3266.8	3261.3	3253.1	3162.8
27.5°	3362.5	3380.3	3343.4	3287.3	3273.6	3302.4	3306.5	3332.5	3339.3	3259.9
30°	3385.8	3398.1	3362.5	3303.7	3296.9	3362.5	3363.9	3410.4	3421.4	3342.0
32.5°	3436.4	3450.1	3414.5	3328.3	3318.8	3410.4	3414.5	3476.1	3493.9	3429.6
35°	3555.4	3571.9	3530.8	3396.7	3362.5	3455.6	3467.9	3540.4	3576.0	3522.6
37.5°	3852.3	3804.4	3748.3	3534.9	3462.4	3526.7	3547.2	3632.0	3695.0	3633.4
40°	4589.6	4439.2	4264.1	3770.2	3637.5	3678.6	3695.0	3779.8	3866.0	3805.8
42.5°	5696.4	5518.5	5236.7	4311.9	3901.5	3922.1	3934.4	4008.2	4130.0	4082.1
45°	6682.7	6618.4	6331.1	5236.7	4395.4	4294.2	4309.2	4347.5	4526.7	4508.9
47.5°	7440.6	7403.6	7182.0	6298.3	5229.9	4749.7	4792.1	4809.9	5068.4	5131.4
50°	8023.3	8009.7	7811.3	7242.2	6320.2	5421.4	5436.4	5398.1	5785.3	5941.2
52.5°	8573.3	8619.8	8473.4	8119.1	7484.3	6301.0	6298.3	6117.7	6640.3	6875.6
55°	9069.9	9086.3	9101.3	9013.8	8655.4	7302.4	7276.4	6980.9	7632.1	7875.6
57.5°	9536.3	9543.2	9677.2	9856.5	9874.2	8377.6	8329.8	7975.5	8715.5	8889.3
60°	9849.6	9881.1	10164.3	10662.2	10879.7	9487.1	9461.1	9100.0	9818.2	9898.9
62.5°	9398.2	9589.7	10303.8	11291.5	11829.1	10716.9	10704.6	10365.4	10978.2	10912.6
65°	7607.5	7931.7	9187.5	11716.9	12760.7	12090.4	12108.2	11747.0	12169.7	11956.3
67.5°	5321.5	5663.5	7149.2	11751.1	13801.8	13703.3	13805.9	13239.5	13435.2	12956.4
70°	3679.9	3856.4	4823.6	11015.2	14613.0	15924.9	15922.2	15072.6	14693.7	13411.9
72.5°	2474.7	2566.4	3132.7	8738.8	14016.6	17245.0	17165.7	16473.5	15117.8	12543.2
75°	1043.8	1110.8	1450.1	4911.1	11089.0	15777.2	15562.4	14558.3	13432.4	9877.0
77.5°	331.1	359.8	571.8	1757.9	6108.1	11859.2	11632.1	9091.7	9002.8	4954.9
80°	157.3	183.3	321.5	705.9	2403.6	6450.1	6418.7	4124.5	3872.8	1337.9
82.5°	68.4	80.7	177.8	377.6	1075.2	2301.0	2347.5	1403.6	1161.4	507.5
85°	21.9	28.7	82.1	173.7	454.2	571.8	565.0	333.8	467.9	276.3
87.5°	0.0	0.0	27.4	39.7	46.5	32.8	36.9	28.7	130.0	76.6
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°
2195.6	0°	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6	2195.6
2223.0	2.5°	2206.6	2184.7	2146.4	2110.8	2079.4	2047.9	2028.7	2001.4	1998.7	1998.7
2258.6	5°	2221.6	2186.1	2117.7	2045.2	1961.7	1882.4	1803.0	1726.4	1701.8	1684.0
2316.0	7.5°	2265.4	2209.3	2101.3	1963.1	1804.4	1630.7	1508.9	1377.6	1327.0	1299.6
2392.6	10°	2328.3	2251.7	2087.6	1845.4	1588.3	1351.6	1177.9	1035.6	980.9	957.6
2476.1	12.5°	2398.1	2303.7	2062.9	1699.1	1351.6	1068.4	898.8	833.1	824.9	824.9
2575.9	15°	2481.6	2366.6	2020.5	1526.7	1104.0	845.4	785.2	788.0	796.2	801.6
2673.1	17.5°	2567.7	2433.7	1953.5	1333.8	885.1	760.6	762.0	766.1	772.9	778.4
2778.4	20°	2660.8	2500.7	1864.6	1128.6	759.2	736.0	740.1	744.2	749.7	752.4
2876.9	22.5°	2760.6	2563.6	1759.3	927.5	716.8	715.5	716.8	720.9	727.8	727.8
2991.8	25°	2867.3	2633.4	1638.9	781.1	694.9	694.9	697.7	700.4	705.9	705.9
3102.6	27.5°	2976.8	2697.7	1511.6	704.5	675.8	674.4	674.4	678.5	681.3	682.6
3212.1	30°	3097.2	2772.9	1384.4	688.1	660.7	653.9	649.8	652.5	655.3	656.6
3327.0	32.5°	3220.3	2845.4	1270.9	694.9	645.7	633.4	619.7	617.0	617.0	622.4
3446.0	35°	3357.1	2924.8	1183.3	718.2	637.5	603.3	581.4	569.1	570.5	578.7
3588.3	37.5°	3521.2	3020.5	1119.0	738.7	632.0	569.1	533.5	518.5	508.9	518.5
3783.9	40°	3736.0	3161.5	1072.5	755.1	625.2	529.4	481.5	456.9	439.1	444.6
4087.6	42.5°	4052.0	3383.1	1054.7	756.5	610.1	482.9	428.2	395.4	369.4	370.7
4544.5	45°	4495.3	3733.3	1146.4	738.7	577.3	432.3	372.1	328.3	311.9	307.8
5227.1	47.5°	5102.6	4243.5	1358.4	701.8	529.4	383.0	317.4	280.4	268.1	261.3
6123.2	50°	5916.6	4898.8	1593.7	660.7	481.5	336.5	272.2	249.0	240.8	233.9
7186.1	52.5°	6860.5	5563.7	1786.6	619.7	433.7	295.5	243.5	229.8	223.0	217.5
8212.1	55°	7726.5	6021.9	1775.7	575.9	387.1	262.7	223.0	214.8	206.6	201.1
9095.8	57.5°	8265.5	6086.2	1463.8	528.0	333.8	236.7	203.8	198.4	188.8	181.9
9860.6	60°	8513.1	5719.6	1026.0	465.1	280.4	212.0	183.3	180.6	168.3	158.7
10584.2	62.5°	8558.2	5038.4	684.0	387.1	233.9	188.8	162.8	158.7	142.3	125.9
11172.5	65°	8374.9	4064.3	473.3	302.3	199.7	164.2	139.5	131.3	113.5	97.1
11312.0	67.5°	7794.9	2853.7	329.7	217.5	169.6	130.0	110.8	108.1	94.4	80.7
10600.7	70°	6731.9	1626.6	220.2	162.8	134.1	88.9	87.6	90.3	76.6	65.7
8660.8	72.5°	5161.5	744.2	136.8	119.0	91.7	60.2	69.8	71.1	58.8	49.2
5403.6	75°	3038.3	318.7	86.2	76.6	46.5	39.7	50.6	52.0	39.7	31.5
1975.4	77.5°	1034.2	120.4	54.7	45.1	23.3	21.9	32.8	32.8	21.9	12.3
396.7	80°	235.3	45.1	27.4	17.8	10.9	9.6	10.9	9.6	5.5	1.4
121.8	82.5°	67.0	17.8	10.9	6.8	4.1	4.1	1.4	0.0	0.0	0.0
42.4	85°	19.2	8.2	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
15.0	87.5°	8.2	1.4	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>
2195.6
2005.5
1692.2
1303.7
957.6
824.9
801.6
778.4
753.8
730.5
707.3
684.0
659.4
626.5
582.8
515.7
441.9
365.3
302.3
257.2
232.6
216.1
198.4
180.6
156.0
117.6
91.7
76.6
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