

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: P951145

Luminaire Tested: **GALN-SB5B-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20794 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

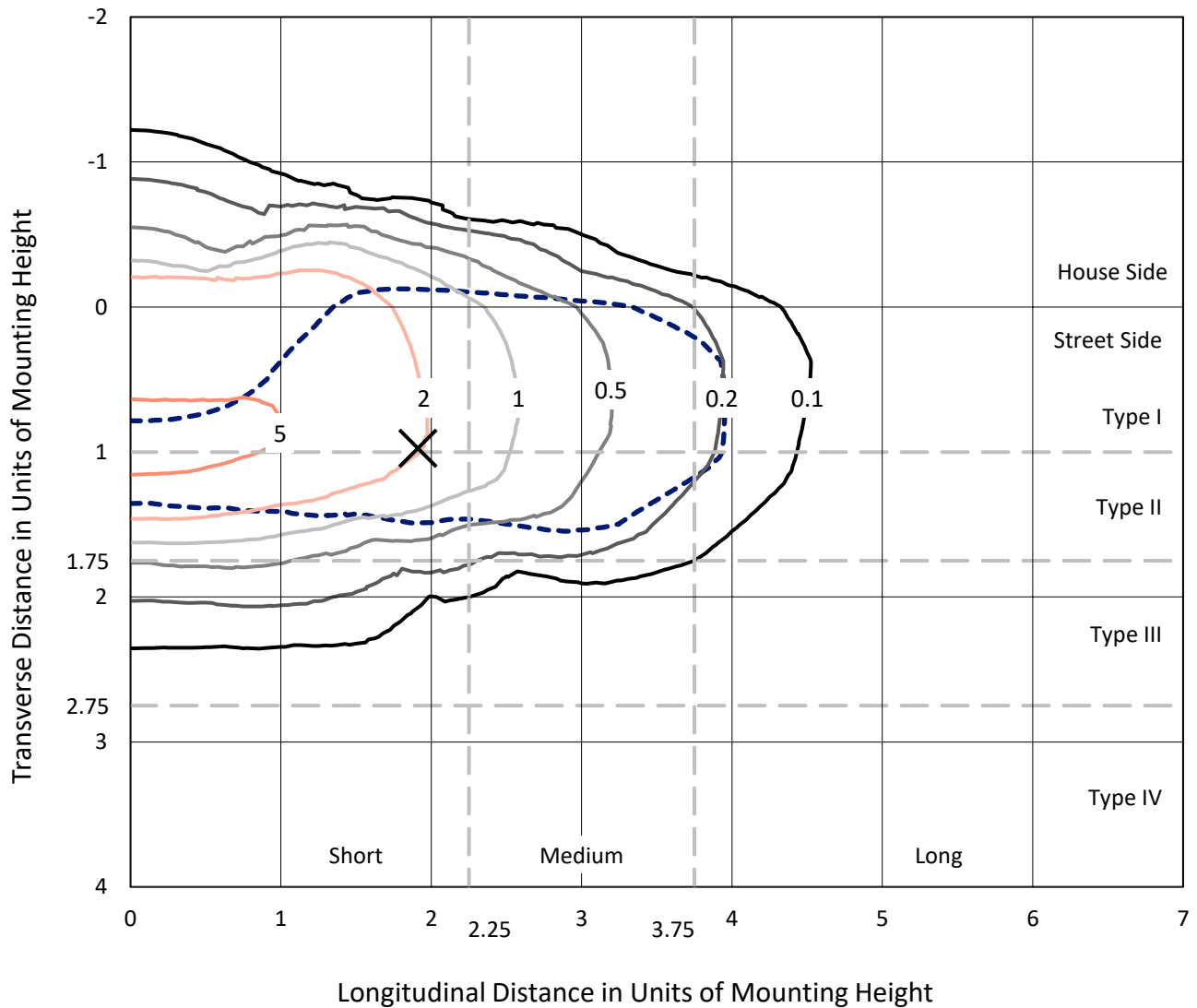
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

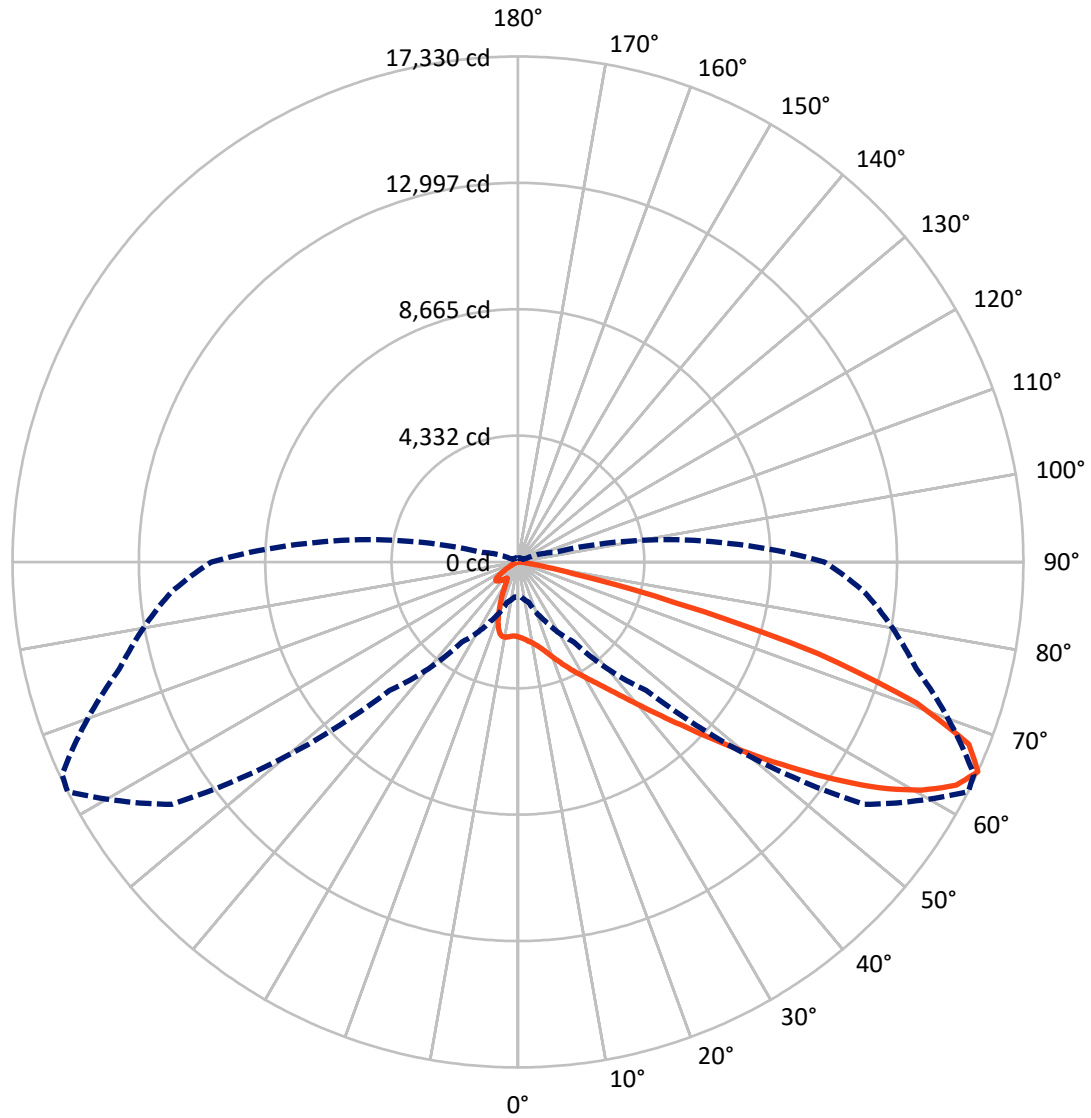
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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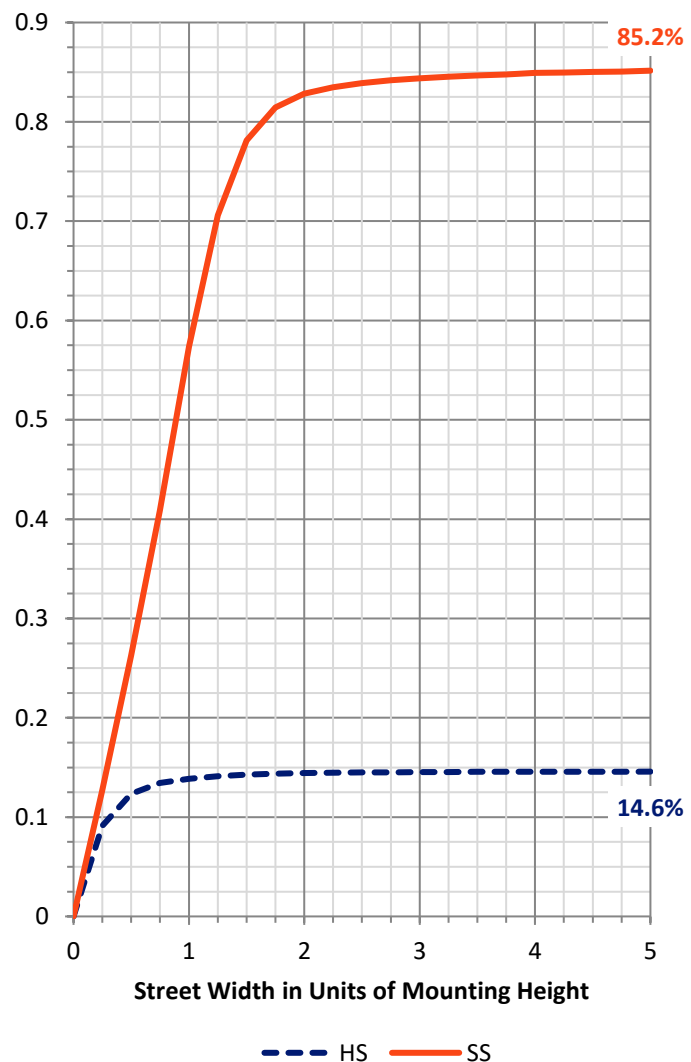
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3056.6	0.0	3056.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	17737.4	0.0	17737.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	20794.0	0.0	20794.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.8	1.2
10°-20°	670.9	3.2
20°-30°	1168.2	5.6
30°-40°	2105.6	10.1
40°-50°	4176.1	20.1
50°-60°	5688.5	27.4
60°-70°	4540.5	21.8
70°-80°	2054.7	9.9
80°-90°	147.7	0.7
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°	20794.0	100.0
0°-180°	20794.0	100.0



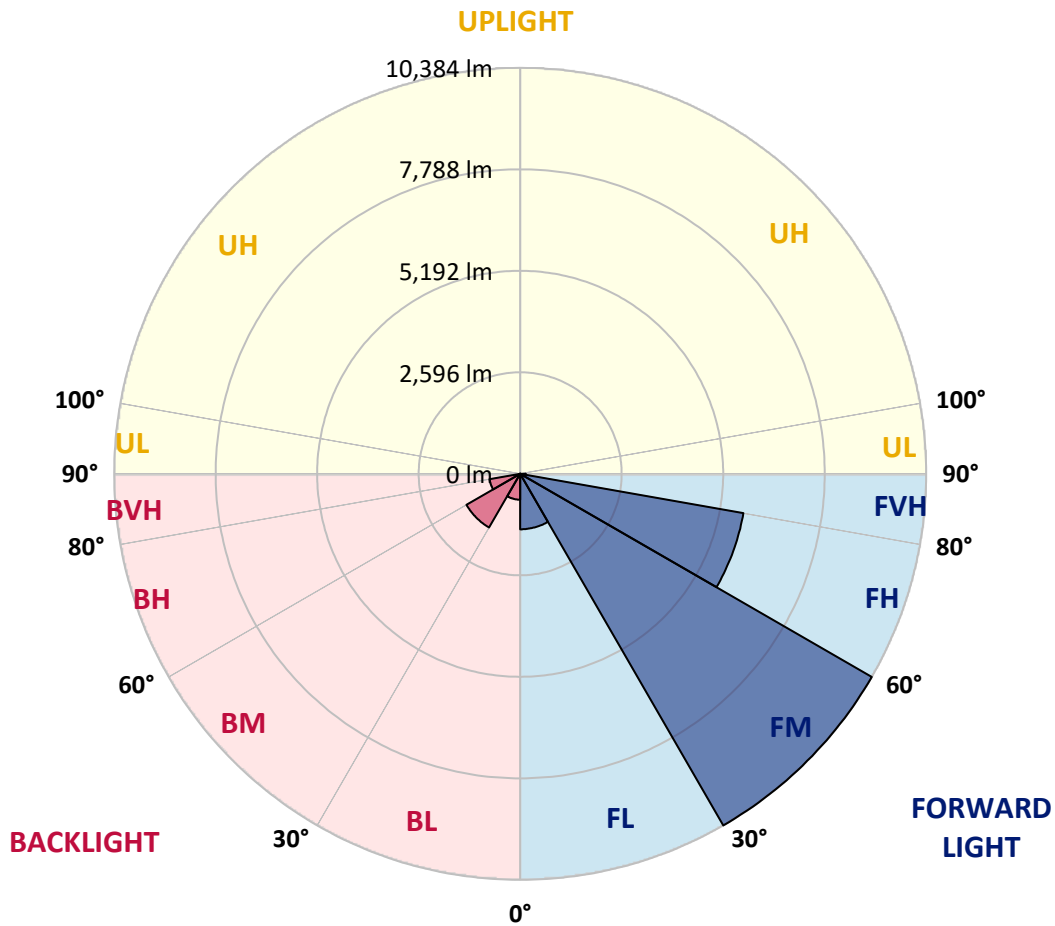
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1419.4	6.8			
FM (30°-60°)	10384.0	49.9			
FH (60°-80°)	5797.3	27.9			G3/7500
FVH (80°-90°)	136.7	0.7			G2/225
BL (0°-30°)	661.5	3.2	B2/1000		
BM (30°-60°)	1586.2	7.6	B2/2500		
BH (60°-80°)	797.9	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2566.4	2566.4	2566.4	2566.4	2566.4	2566.4	2566.4	2566.4	2566.4	2566.4
2.5°	2626.5	2619.3	2629.3	2625.0	2622.2	2616.4	2613.6	2610.7	2605.0	2600.7
5°	2633.6	2629.3	2639.3	2647.9	2656.5	2665.1	2669.4	2675.1	2669.4	2657.9
7.5°	2573.5	2570.7	2592.1	2617.9	2656.5	2689.4	2725.2	2745.2	2746.6	2742.3
10°	2569.2	2562.1	2583.5	2615.0	2665.1	2723.7	2786.7	2829.6	2835.3	2853.9
12.5°	2636.5	2629.3	2659.4	2693.7	2745.2	2806.7	2884.0	2944.0	2952.6	2978.4
15°	2749.5	2739.5	2773.8	2818.1	2884.0	2954.0	3035.6	3089.9	3097.1	3128.6
17.5°	2881.1	2871.1	2911.1	2958.3	3029.9	3125.7	3220.1	3280.2	3288.8	3308.8
20°	3049.9	3037.0	3068.5	3111.4	3187.2	3301.7	3414.7	3500.5	3499.1	3499.1
22.5°	3245.9	3225.8	3253.0	3287.4	3358.9	3497.6	3647.9	3749.4	3749.4	3709.4
25°	3456.2	3436.1	3466.2	3497.6	3560.6	3717.9	3893.9	4019.8	4025.5	3956.8
27.5°	3719.4	3693.6	3716.5	3753.7	3790.9	3951.1	4160.0	4305.9	4308.8	4202.9
30°	4225.8	4152.8	4081.3	4041.2	4058.4	4217.2	4440.4	4602.0	4616.3	4470.4
32.5°	5152.8	5138.5	4886.7	4557.7	4386.0	4503.3	4753.7	4948.2	4956.8	4769.4
35°	6593.3	6576.2	6171.3	5544.7	4985.4	4886.7	5134.2	5364.5	5358.8	5147.1
37.5°	8312.8	8297.1	7763.5	6925.2	6019.7	5466.1	5624.8	5866.6	5902.4	5624.8
40°	9782.0	9723.3	9385.7	8577.5	7393.0	6427.4	6322.9	6483.2	6520.4	6191.3
42.5°	10894.9	10844.9	10673.2	10168.2	9055.3	7849.3	7145.5	7207.0	7248.5	6853.7
45°	11471.4	11460.0	11528.6	11481.4	10749.0	9594.6	8321.4	8065.3	8081.1	7587.5
47.5°	11553.0	11547.2	11860.5	12304.0	12205.3	11563.0	9830.6	9135.4	9079.6	8415.8
50°	11072.3	11060.9	11661.7	12492.8	13178.1	13216.7	11544.4	10341.3	10218.3	9272.7
52.5°	9537.3	9534.5	10521.6	11904.9	13519.9	14664.4	13238.1	11666.0	11460.0	10179.7
55°	7338.6	7391.6	8523.1	10158.2	12896.2	15361.0	14758.8	13136.6	12820.4	11092.3
57.5°	5198.5	5275.8	6394.5	7850.8	10962.2	14949.0	15787.3	14610.0	14269.5	12002.2
60°	2792.4	2861.1	3981.2	5719.3	8155.5	13412.7	16329.5	15888.9	15567.0	12866.2
62.5°	1663.7	1686.6	2150.1	3692.2	5516.1	10246.9	16099.2	16863.1	16598.5	13591.5
65°	1194.5	1198.8	1432.0	2254.5	3348.9	6225.7	14484.1	17329.5	17247.9	14137.9
67.5°	1005.7	1002.8	1100.1	1497.8	2281.7	3118.6	11100.9	16670.0	17016.2	14484.1
70°	862.6	866.9	981.3	1097.2	1715.2	1765.3	5519.0	14514.2	15252.3	14575.7
72.5°	642.3	656.6	762.5	999.9	1294.6	1214.5	1905.5	10761.9	12096.6	13733.1
75°	453.5	460.6	536.4	841.2	965.6	884.1	972.8	5563.3	7274.2	10528.7
77.5°	349.0	361.9	406.3	587.9	951.3	620.9	595.1	1925.5	2958.3	6360.1
80°	188.8	211.7	293.3	424.9	668.1	439.2	294.7	766.8	1002.8	2974.1
82.5°	97.3	108.7	204.6	306.1	380.5	383.4	145.9	319.0	413.4	918.4
85°	38.6	47.2	137.3	168.8	196.0	188.8	65.8	128.7	148.8	254.6
87.5°	8.6	14.3	50.1	38.6	37.2	40.1	15.7	30.0	28.6	30.0
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°
2566.4	0°	2566.4	2566.4	2566.4	2566.4	2566.4	2566.4	2566.4	2566.4	2566.4	2566.4
2583.5	2.5°	2582.1	2576.4	2560.7	2543.5	2523.5	2512.0	2504.9	2503.4	2493.4	2486.3
2640.8	5°	2625.0	2619.3	2589.3	2553.5	2514.9	2484.8	2456.2	2430.5	2393.3	2386.1
2723.7	7.5°	2710.9	2695.1	2646.5	2597.8	2524.9	2437.6	2331.8	2210.2	2101.4	2068.5
2833.9	10°	2816.7	2795.3	2733.7	2647.9	2486.3	2248.8	1992.7	1755.3	1566.4	1513.5
2964.1	12.5°	2936.9	2918.3	2836.7	2678.0	2324.6	1894.0	1502.1	1207.4	1024.3	978.5
3102.8	15°	3079.9	3052.8	2939.7	2632.2	2035.6	1439.1	1031.4	856.9	791.1	782.5
3261.6	17.5°	3231.6	3187.2	3031.3	2467.7	1646.5	1022.8	796.8	746.7	718.1	709.5
3421.8	20°	3370.3	3313.1	3085.7	2218.8	1230.3	796.8	713.8	680.9	655.2	645.2
3582.0	22.5°	3509.1	3427.6	3085.7	1879.7	922.7	706.7	655.2	625.1	595.1	582.2
3753.7	25°	3653.6	3544.9	3031.3	1502.1	742.4	648.0	599.4	566.5	540.7	525.0
3916.8	27.5°	3793.8	3643.6	2906.8	1144.4	660.9	596.5	547.9	516.4	492.1	480.7
4094.2	30°	3926.8	3740.8	2732.3	868.3	608.0	546.5	500.7	473.5	449.2	437.7
4324.5	32.5°	4107.1	3863.9	2546.3	712.4	562.2	499.3	457.8	432.0	410.6	402.0
4623.5	35°	4357.4	4045.5	2386.1	699.5	523.6	460.6	419.1	394.8	373.4	366.2
5009.7	37.5°	4712.2	4338.8	2301.7	785.4	492.1	426.3	387.7	361.9	341.9	336.2
5500.4	40°	5149.9	4736.5	2347.5	871.2	470.6	396.3	359.1	333.3	316.1	309.0
6064.0	42.5°	5669.2	5227.2	2600.7	937.0	456.3	370.5	331.9	303.3	291.8	289.0
6703.5	45°	6265.7	5766.5	2988.4	1007.1	433.5	346.2	304.7	283.2	274.7	273.2
7398.7	47.5°	6943.8	6358.7	3437.6	1094.4	410.6	323.3	283.2	268.9	261.8	258.9
8124.0	50°	7616.1	6955.2	3899.6	1143.0	392.0	301.8	266.1	254.6	248.9	247.5
8890.7	52.5°	8320.0	7568.9	4273.0	1097.2	376.2	284.7	251.8	243.2	237.5	236.0
9597.4	55°	8990.9	8065.3	4337.4	931.3	344.8	267.5	236.0	231.7	224.6	224.6
10314.1	57.5°	9568.8	8314.2	3882.5	683.8	313.3	241.8	220.3	216.0	210.3	208.9
10960.7	60°	10099.5	8242.7	2997.0	460.6	279.0	216.0	200.3	197.4	191.7	184.5
11522.9	62.5°	10398.5	7928.0	2050.0	300.4	244.6	188.8	177.4	176.0	163.1	148.8
11939.2	65°	10511.5	7281.4	1278.9	218.9	204.6	161.6	153.1	150.2	131.6	115.9
12175.2	67.5°	10412.8	6217.1	645.2	173.1	161.6	134.5	125.9	125.9	113.0	98.7
12160.9	70°	10018.0	4660.7	271.8	138.8	124.5	103.0	103.0	108.7	95.8	80.1
11530.1	72.5°	9161.1	3135.7	144.5	105.9	93.0	73.0	84.4	88.7	75.8	60.1
9437.2	75°	7282.8	1912.6	100.1	78.7	58.7	51.5	64.4	67.2	51.5	40.1
6470.3	77.5°	4981.1	1098.6	67.2	50.1	37.2	30.0	44.3	41.5	27.2	18.6
2494.8	80°	2187.3	457.8	38.6	22.9	14.3	11.4	15.7	11.4	8.6	5.7
341.9	82.5°	256.1	107.3	14.3	8.6	5.7	2.9	1.4	0.0	0.0	0.0
104.4	85°	52.9	12.9	7.2	2.9	1.4	0.0	0.0	0.0	0.0	0.0
18.6	87.5°	10.0	2.9	1.4	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>
2566.4
2493.4
2383.3
2052.8
1493.5
965.6
773.9
705.3
639.4
575.1
519.3
480.7
439.2
402.0
366.2
334.7
307.6
289.0
271.8
258.9
247.5
236.0
223.2
207.4
183.1
145.9
114.4
97.3
78.7
60.1
38.6
20.0
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