

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: P942066

Luminaire Tested: **GALN-SB5D-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-927-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24539 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

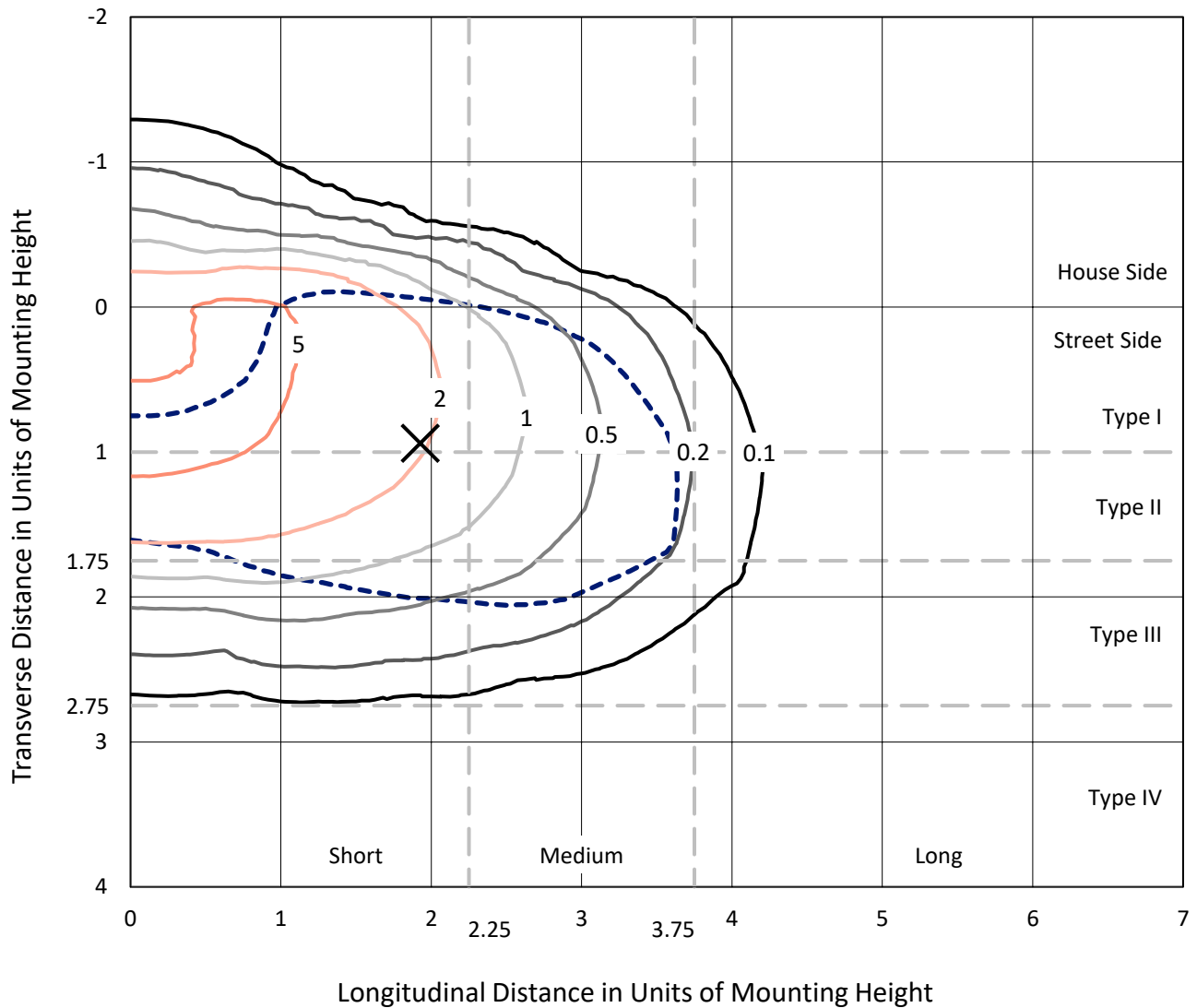
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

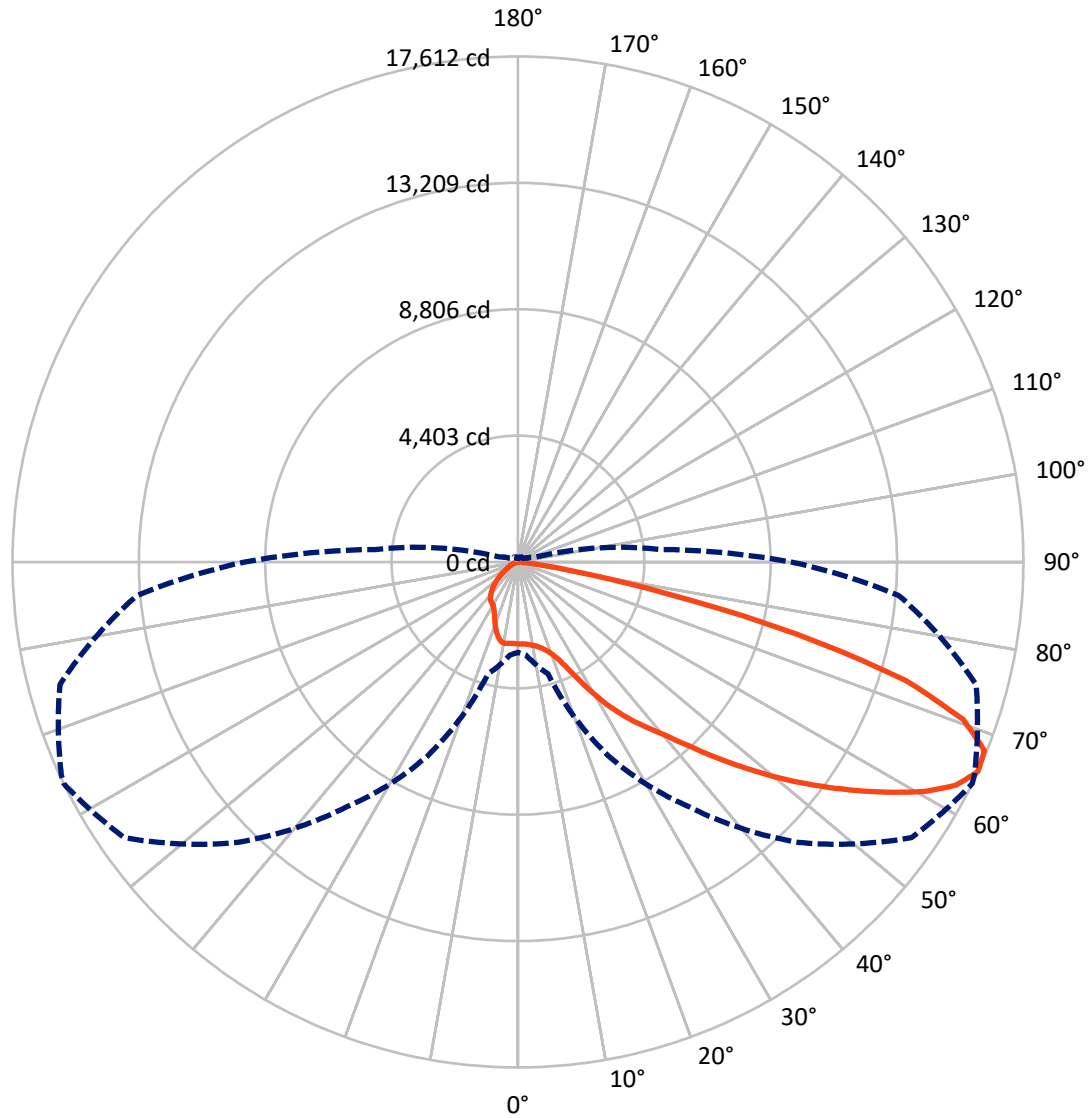
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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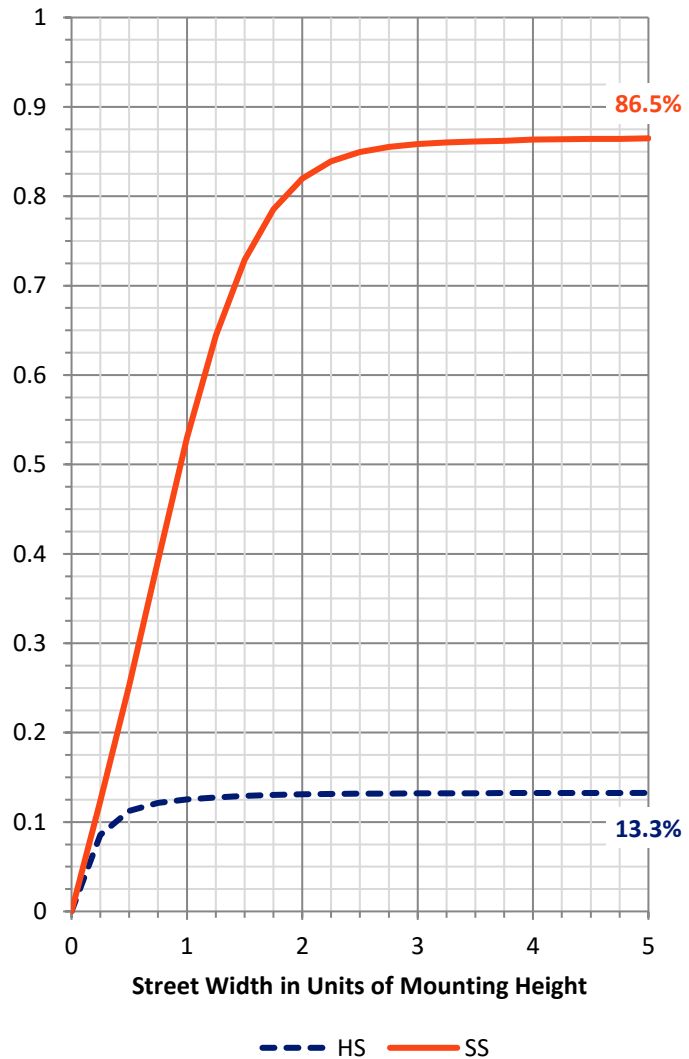
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3281.6	0.0	3281.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21257.4	0.0	21257.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	24539.0	0.0	24539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.3	1.1
10°-20°	714.2	2.9
20°-30°	1353.4	5.5
30°-40°	2738.6	11.2
40°-50°	4665.2	19.0
50°-60°	6344.3	25.9
60°-70°	5957.6	24.3
70°-80°	2386.9	9.7
80°-90°	115.6	0.5
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°	24539.0	100.0
0°-180°	24539.0	100.0

Coefficient of Utilization



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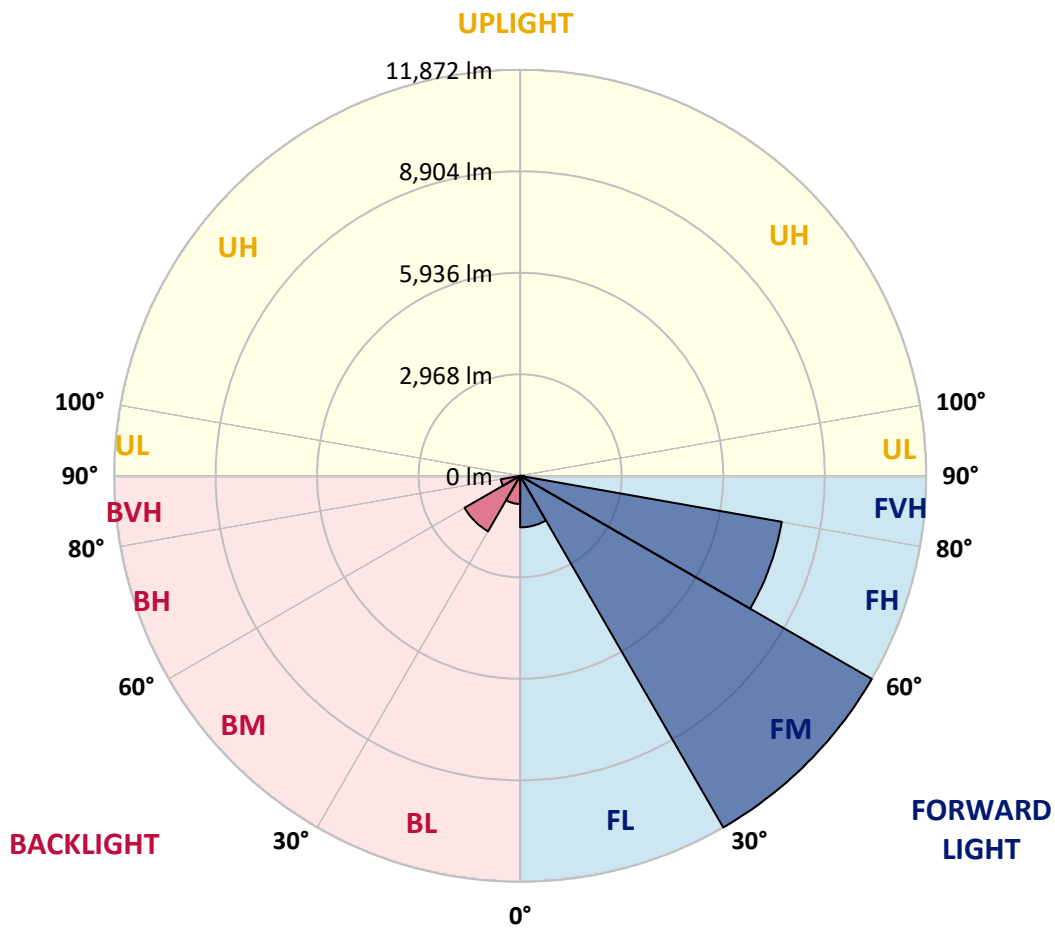
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1507.0	6.1			
FM (30°-60°)	11871.9	48.4			
FH (60°-80°)	7768.5	31.7			G4/12000
FVH (80°-90°)	110.0	0.4			G2/225
BL (0°-30°)	823.9	3.4	B2/1000		
BM (30°-60°)	1876.1	7.6	B2/2500		
BH (60°-80°)	576.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.6	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1
2.5°	2844.3	2864.0	2859.1	2854.1	2852.5	2855.8	2857.4	2855.8	2855.8	2855.8
5°	2790.0	2806.4	2806.4	2817.9	2834.4	2854.1	2868.9	2872.2	2875.5	2880.5
7.5°	2686.3	2699.5	2709.4	2747.2	2788.3	2841.0	2885.4	2908.4	2911.7	2929.8
10°	2615.6	2632.1	2648.5	2688.0	2747.2	2826.2	2901.8	2957.8	2966.0	3008.8
12.5°	2612.3	2628.8	2650.2	2692.9	2762.0	2845.9	2938.0	3018.6	3033.4	3096.0
15°	2646.9	2666.6	2686.3	2739.0	2813.0	2915.0	3013.7	3114.1	3128.9	3217.7
17.5°	2717.6	2743.9	2758.7	2811.4	2890.3	3003.8	3133.8	3248.9	3262.1	3365.7
20°	2857.4	2888.7	2893.6	2936.4	3013.7	3135.4	3290.1	3433.2	3449.6	3568.1
22.5°	3147.0	3191.4	3151.9	3173.3	3242.4	3364.1	3531.9	3712.9	3735.9	3870.8
25°	3656.9	3719.4	3617.4	3581.2	3610.9	3737.5	3948.1	4176.8	4203.1	4311.6
27.5°	4658.7	4578.1	4423.5	4272.2	4183.3	4255.7	4492.6	4775.5	4808.4	4913.7
30°	5759.3	5688.5	5479.6	5144.0	4933.5	4922.0	5140.7	5456.6	5494.4	5594.8
32.5°	6861.5	6794.0	6567.0	6154.1	5788.9	5607.9	5759.3	6109.7	6129.4	6193.6
35°	7945.5	7876.4	7649.4	7226.7	6777.6	6366.3	6336.7	6731.5	6738.1	6805.5
37.5°	9036.2	8978.6	8736.8	8322.2	7879.7	7312.2	7037.5	7320.4	7328.6	7394.4
40°	9814.3	9839.0	9672.8	9352.0	8972.0	8351.9	7823.8	7947.2	7897.8	8008.0
42.5°	10482.2	10531.5	10386.8	10225.6	10005.1	9459.0	8797.7	8776.3	8697.3	8756.5
45°	11059.6	11100.7	10970.8	10932.9	10928.0	10544.7	9862.0	9733.7	9623.5	9612.0
47.5°	11271.8	11350.8	11406.7	11533.4	11780.1	11618.9	10962.5	10763.5	10640.1	10549.6
50°	11352.4	11436.3	11627.1	11995.6	12579.6	12648.7	12058.1	11834.4	11683.1	11518.6
52.5°	11243.8	11393.5	11650.2	12270.3	13117.5	13474.5	13109.3	12913.5	12740.8	12472.7
55°	10603.9	10753.6	11278.4	12267.0	13385.7	14053.6	14102.9	14015.7	13821.6	13398.8
57.5°	9255.0	9477.1	10307.8	11849.2	13380.7	14552.0	15076.8	15139.3	14922.1	14316.8
60°	7386.2	7687.3	8700.6	10923.1	12967.8	14821.8	15930.5	16243.1	16012.8	15221.5
62.5°	5153.9	5502.7	6461.7	9472.1	12023.6	14627.7	16554.0	17131.4	16957.0	16030.9
65°	3143.7	3255.5	4028.7	7453.7	10418.0	13815.0	16746.5	17611.8	17554.2	16526.0
67.5°	2094.1	2187.9	2410.0	5111.1	8087.0	12191.4	16285.9	17527.9	17544.3	16445.4
70°	1261.7	1342.4	1487.1	2972.6	5241.1	9649.8	14859.6	16458.6	16554.0	15367.9
72.5°	519.8	574.1	705.7	1347.3	2714.3	6124.5	11832.8	14130.9	14353.0	12921.8
75°	294.5	322.4	414.5	676.1	1177.8	2854.1	7167.4	10031.4	10358.8	8906.2
77.5°	195.8	208.9	268.1	437.6	663.0	973.9	3063.1	5226.3	5851.4	4864.4
80°	131.6	143.1	184.2	292.8	431.0	417.8	975.5	1936.2	2382.0	1671.4
82.5°	88.8	90.5	131.6	192.5	273.1	202.3	287.9	602.1	756.7	483.6
85°	51.0	49.4	97.1	111.9	121.7	83.9	87.2	181.0	236.9	204.0
87.5°	6.6	9.9	37.8	29.6	16.5	18.1	18.1	31.3	46.1	49.4
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°
2854.1	0°	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1	2854.1
2857.4	2.5°	2857.4	2855.8	2850.9	2845.9	2834.4	2827.8	2831.1	2827.8	2826.2	2827.8
2878.8	5°	2878.8	2873.9	2860.7	2844.3	2821.2	2793.3	2775.2	2748.9	2724.2	2709.4
2936.4	7.5°	2936.4	2931.5	2913.4	2867.3	2793.3	2676.5	2569.5	2475.8	2405.0	2363.9
3028.5	10°	3028.5	3020.3	2992.3	2890.3	2696.2	2441.2	2229.0	2053.0	1937.9	1883.6
3137.1	12.5°	3137.1	3127.2	3077.9	2868.9	2512.0	2113.9	1821.1	1625.3	1518.4	1470.7
3262.1	15°	3265.4	3252.2	3155.2	2767.0	2243.8	1752.0	1483.8	1337.4	1268.3	1225.6
3421.7	17.5°	3425.0	3401.9	3212.8	2614.0	1952.7	1475.6	1276.5	1166.3	1105.5	1064.3
3630.6	20°	3632.2	3594.4	3258.8	2431.4	1684.5	1301.2	1136.7	1044.6	998.5	962.3
3926.7	22.5°	3921.8	3867.5	3314.8	2234.0	1495.3	1181.1	1033.1	965.6	927.8	886.7
4339.6	25°	4280.4	4216.2	3383.8	2051.4	1365.4	1077.5	957.4	901.5	857.1	809.4
4880.8	27.5°	4782.1	4667.0	3466.1	1901.7	1253.5	988.7	888.3	825.8	774.8	735.3
5494.4	30°	5341.4	5152.3	3538.5	1811.2	1151.5	906.4	797.8	735.3	687.6	659.7
6045.5	32.5°	5871.1	5614.5	3586.2	1771.7	1059.4	812.6	699.1	631.7	595.5	587.3
6585.1	35°	6371.2	6032.4	3581.2	1733.9	977.2	718.9	602.1	533.0	505.0	510.0
7165.8	37.5°	6947.0	6478.2	3546.7	1674.6	909.7	633.3	518.2	457.3	432.6	434.3
7871.5	40°	7616.5	6993.1	3525.3	1562.8	835.7	554.4	449.1	399.7	381.6	375.1
8615.1	42.5°	8330.5	7491.5	3528.6	1436.1	743.6	483.6	401.4	360.3	343.8	338.9
9442.5	45°	9047.7	7966.9	3533.5	1304.5	646.5	429.4	366.8	332.3	322.4	315.8
10281.5	47.5°	9722.2	8371.6	3441.4	1163.0	551.1	388.2	338.9	315.8	307.6	299.4
11123.7	50°	10350.6	8641.4	3219.3	998.5	475.4	355.3	317.5	301.0	292.8	284.6
11887.0	52.5°	10839.2	8684.2	2852.5	829.1	422.8	330.7	304.3	289.5	279.7	271.4
12503.9	55°	11056.3	8416.0	2331.0	671.2	381.6	309.3	291.2	276.4	264.9	256.6
12989.2	57.5°	11000.4	7851.8	1817.8	539.6	342.2	287.9	274.7	264.9	251.7	238.5
13382.4	60°	10725.6	7096.7	1370.3	449.1	306.0	264.9	256.6	248.4	230.3	210.6
13533.7	62.5°	10250.2	6147.5	977.2	371.8	266.5	238.5	235.2	228.7	202.3	166.1
13310.0	65°	9523.1	4994.3	658.0	309.3	228.7	208.9	210.6	199.0	164.5	123.4
12490.8	67.5°	8460.4	3652.0	421.1	253.3	190.8	174.4	176.0	169.4	139.8	105.3
10937.9	70°	7106.6	2418.2	274.7	192.5	153.0	134.9	144.8	146.4	118.4	85.5
8394.6	72.5°	5209.8	1427.9	192.5	143.1	111.9	93.8	118.4	121.7	95.4	64.2
5050.3	75°	2969.3	677.8	144.8	103.6	69.1	65.8	92.1	92.1	65.8	42.8
2186.3	77.5°	1246.9	282.9	102.0	67.4	39.5	37.8	62.5	57.6	32.9	19.7
533.0	80°	360.3	126.7	54.3	32.9	16.5	14.8	24.7	18.1	8.2	3.3
202.3	82.5°	141.5	55.9	21.4	13.2	6.6	6.6	3.3	0.0	0.0	0.0
115.2	85°	83.9	23.0	9.9	4.9	1.6	0.0	0.0	0.0	0.0	0.0
24.7	87.5°	21.4	4.9	3.3	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>
2854.1
2834.4
2712.7
2365.6
1878.6
1465.7
1227.2
1061.0
955.8
880.1
804.4
727.1
654.7
592.2
510.0
440.9
373.4
337.2
315.8
299.4
284.6
269.8
255.0
236.9
207.3
162.9
120.1
100.3
82.3
60.9
39.5
19.7
3.3
0.0
0.0
0.0
0.0

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