

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: P956525

Luminaire Tested: **GALN-SB9A-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956525
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-SB9A-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 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: 19157 lumens
Efficiency: N/A
Efficacy: 75.0 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

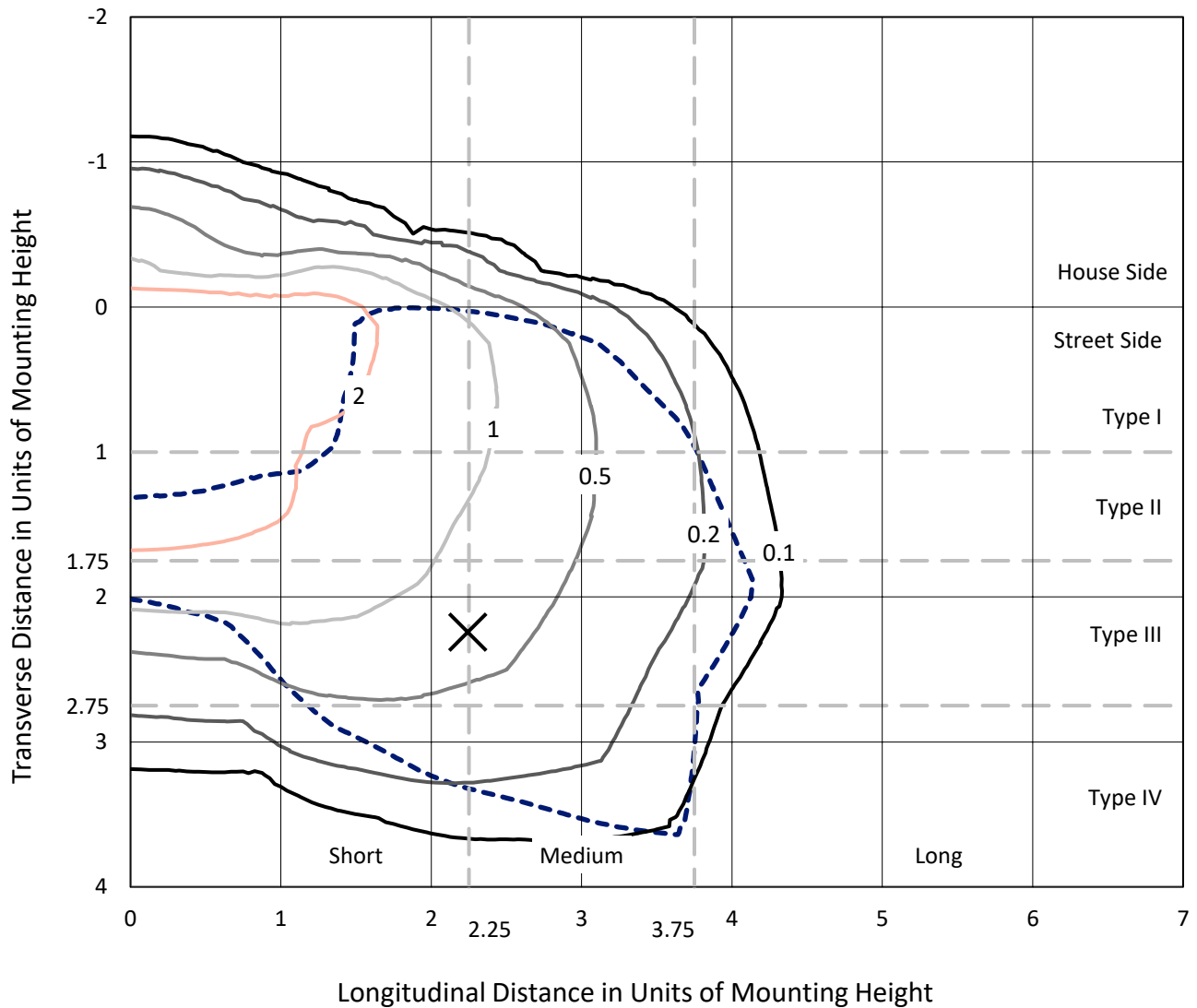
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

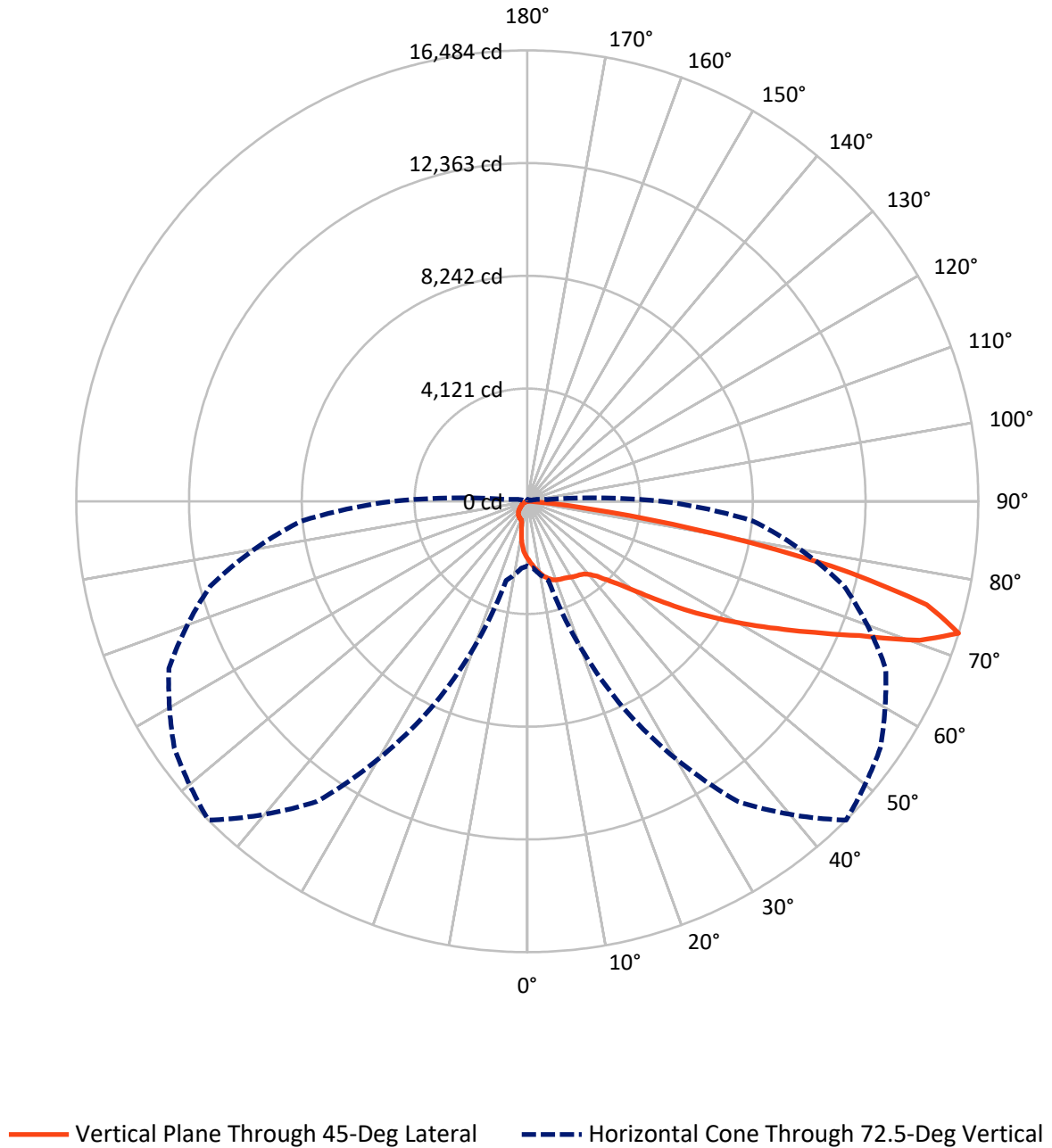
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2012.9	0.0	2012.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	17144.1	0.0	17144.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	19157.0	0.0	19157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.7	1.0
10°-20°	577.9	3.0
20°-30°	949.0	5.0
30°-40°	1345.9	7.0
40°-50°	2224.7	11.6
50°-60°	3996.4	20.9
60°-70°	5549.2	29.0
70°-80°	4025.2	21.0
80°-90°	291.0	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°	19157.0	100.0
0°-180°	19157.0	100.0

Coefficient of Utilization



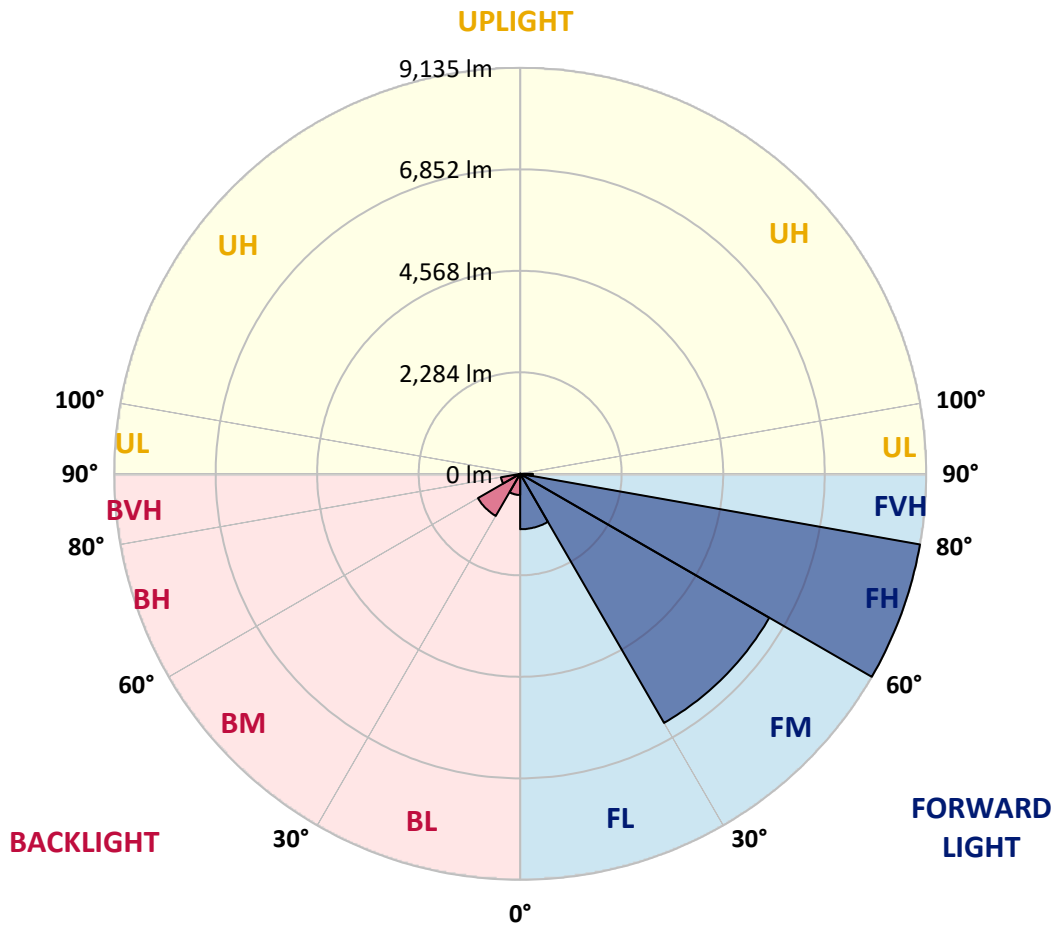
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1247.9	6.5			
FM (30°-60°)	6472.3	33.8			
FH (60°-80°)	9135.4	47.7			G4/12000
FVH (80°-90°)	288.6	1.5			G3/500
BL (0°-30°)	476.8	2.5	B1/500		
BM (30°-60°)	1094.7	5.7	B2/2500		
BH (60°-80°)	438.9	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	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°	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7
2.5°	2292.2	2296.1	2293.5	2277.8	2251.7	2237.3	2229.4	2203.3	2186.3	2156.2
5°	2502.7	2518.4	2509.3	2477.9	2428.2	2392.9	2382.4	2328.8	2280.4	2224.2
7.5°	2726.3	2734.2	2717.2	2676.6	2610.0	2549.8	2540.7	2466.1	2389.0	2302.7
10°	2919.9	2929.0	2902.9	2844.0	2768.2	2693.6	2680.6	2598.2	2506.7	2400.7
12.5°	3082.0	3091.2	3057.2	2986.5	2902.9	2825.7	2812.6	2726.3	2625.7	2508.0
15°	3204.9	3221.9	3176.1	3100.3	3010.1	2932.9	2926.4	2841.4	2743.3	2612.6
17.5°	3276.8	3293.8	3250.7	3159.1	3082.0	3016.6	3008.8	2938.2	2846.6	2721.1
20°	3288.6	3304.3	3258.5	3178.8	3114.7	3062.4	3058.5	3007.5	2940.8	2820.5
22.5°	3253.3	3272.9	3231.1	3167.0	3122.5	3095.1	3089.8	3061.1	3023.2	2921.2
25°	3216.7	3232.4	3201.0	3144.8	3121.2	3118.6	3122.5	3117.3	3109.5	3023.2
27.5°	3214.1	3231.1	3195.8	3142.2	3129.1	3156.5	3160.5	3185.3	3191.8	3116.0
30°	3236.3	3248.1	3214.1	3157.8	3151.3	3214.1	3215.4	3259.8	3270.3	3194.5
32.5°	3284.7	3297.8	3263.8	3181.4	3172.2	3259.8	3263.8	3322.6	3339.6	3278.1
35°	3398.4	3414.1	3374.9	3246.8	3214.1	3303.0	3314.8	3384.1	3418.1	3367.1
37.5°	3682.2	3636.4	3582.8	3378.8	3309.5	3371.0	3390.6	3471.7	3531.8	3473.0
40°	4387.0	4243.1	4075.8	3603.7	3476.9	3516.1	3531.8	3612.9	3695.3	3637.7
42.5°	5444.8	5274.8	5005.5	4121.5	3729.3	3748.9	3760.6	3831.3	3947.6	3901.9
45°	6387.6	6326.1	6051.6	5005.5	4201.3	4104.5	4118.9	4155.5	4326.8	4309.8
47.5°	7112.0	7076.7	6864.9	6020.2	4998.9	4540.0	4580.5	4597.5	4844.6	4904.8
50°	7669.0	7656.0	7466.4	6922.4	6041.1	5182.0	5196.4	5159.8	5529.8	5678.9
52.5°	8194.7	8239.2	8099.2	7760.6	7153.9	6022.8	6020.2	5847.6	6347.1	6572.0
55°	8669.4	8685.0	8699.4	8615.7	8273.2	6979.9	6955.1	6672.7	7295.1	7527.8
57.5°	9115.2	9121.8	9249.9	9421.2	9438.2	8007.7	7961.9	7623.3	8330.7	8496.8
60°	9414.7	9444.8	9715.4	10191.4	10399.3	9068.2	9043.3	8698.1	9384.6	9461.8
62.5°	8983.2	9166.2	9848.8	10792.9	11306.8	10243.7	10231.9	9907.6	10493.5	10430.7
65°	7271.5	7581.4	8781.8	11199.6	12197.2	11556.5	11573.5	11228.3	11632.4	11428.4
67.5°	5086.5	5413.4	6833.5	11232.2	13192.3	13098.2	13196.2	12654.9	12841.9	12384.2
70°	3517.4	3686.1	4610.6	10528.8	13967.7	15221.7	15219.1	14407.1	14044.9	12819.7
72.5°	2365.4	2453.0	2994.4	8352.9	13397.6	16483.5	16407.7	15746.1	14450.2	11989.3
75°	997.7	1061.8	1386.1	4694.3	10599.4	15080.5	14875.2	13915.4	12839.3	9440.8
77.5°	316.4	343.9	546.6	1680.3	5838.4	11335.5	11118.5	8690.3	8605.3	4736.1
80°	150.4	175.2	307.3	674.7	2297.4	6165.3	6135.2	3942.4	3701.8	1278.8
82.5°	65.4	77.1	170.0	360.9	1027.8	2199.4	2243.8	1341.6	1110.1	485.1
85°	20.9	27.5	78.5	166.1	434.1	546.6	540.0	319.1	447.2	264.1
87.5°	0.0	0.0	26.2	37.9	44.5	31.4	35.3	27.5	124.2	73.2
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°
2098.7	0°	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7
2124.8	2.5°	2109.2	2088.2	2051.6	2017.6	1987.5	1957.5	1939.2	1913.0	1910.4	1910.4
2158.8	5°	2123.5	2089.5	2024.2	1954.9	1875.1	1799.3	1723.4	1650.2	1626.6	1609.6
2213.8	7.5°	2165.4	2111.8	2008.5	1876.4	1724.7	1558.7	1442.3	1316.7	1268.4	1242.2
2287.0	10°	2225.5	2152.3	1995.4	1763.9	1518.1	1291.9	1125.8	989.8	937.5	915.3
2366.7	12.5°	2292.2	2202.0	1971.9	1624.0	1291.9	1021.2	859.1	796.3	788.5	788.5
2462.2	15°	2372.0	2262.1	1931.3	1459.3	1055.2	808.1	750.6	753.2	761.0	766.3
2555.0	17.5°	2454.4	2326.2	1867.2	1274.9	846.0	727.0	728.3	732.3	738.8	744.0
2655.7	20°	2543.3	2390.3	1782.3	1078.8	725.7	703.5	707.4	711.3	716.6	719.2
2749.9	22.5°	2638.7	2450.4	1681.6	886.5	685.2	683.9	685.2	689.1	695.6	695.6
2859.7	25°	2740.7	2517.1	1566.5	746.6	664.3	664.3	666.9	669.5	674.7	674.7
2965.6	27.5°	2845.3	2578.6	1444.9	673.4	646.0	644.6	644.6	648.6	651.2	652.5
3070.2	30°	2960.4	2650.5	1323.3	657.7	631.6	625.0	621.1	623.7	626.3	627.6
3180.1	32.5°	3078.1	2719.8	1214.8	664.3	617.2	605.4	592.3	589.7	589.7	595.0
3293.8	35°	3208.8	2795.6	1131.1	686.5	609.3	576.6	555.7	544.0	545.3	553.1
3429.8	37.5°	3365.7	2887.2	1069.6	706.1	604.1	544.0	510.0	495.6	486.4	495.6
3616.8	40°	3571.0	3021.9	1025.2	721.8	597.6	506.0	460.3	436.7	419.7	425.0
3907.1	42.5°	3873.1	3233.7	1008.2	723.1	583.2	461.6	409.3	377.9	353.1	354.4
4343.8	45°	4296.8	3568.4	1095.8	706.1	551.8	413.2	355.7	313.8	298.1	294.2
4996.3	47.5°	4877.3	4056.2	1298.4	670.8	506.0	366.1	303.4	268.1	256.3	249.8
5852.8	50°	5655.3	4682.5	1523.3	631.6	460.3	321.7	260.2	238.0	230.1	223.6
6868.8	52.5°	6557.6	5318.0	1707.7	592.3	414.5	282.4	232.8	219.7	213.1	207.9
7849.5	55°	7385.3	5756.0	1697.3	550.5	370.0	251.1	213.1	205.3	197.4	192.2
8694.2	57.5°	7900.5	5817.5	1399.1	504.7	319.1	226.2	194.8	189.6	180.4	173.9
9425.1	60°	8137.2	5467.1	980.7	444.6	268.1	202.7	175.2	172.6	160.8	151.7
10116.9	62.5°	8180.3	4815.9	653.8	370.0	223.6	180.4	155.6	151.7	136.0	120.3
10679.1	65°	8005.1	3884.9	452.4	289.0	190.9	156.9	133.4	125.5	108.5	92.8
10812.5	67.5°	7450.7	2727.6	315.1	207.9	162.1	124.2	105.9	103.3	90.2	77.1
10132.6	70°	6434.7	1554.7	210.5	155.6	128.1	85.0	83.7	86.3	73.2	62.8
8278.4	72.5°	4933.6	711.3	130.8	113.8	87.6	57.5	66.7	68.0	56.2	47.1
5165.0	75°	2904.2	304.7	82.4	73.2	44.5	37.9	48.4	49.7	37.9	30.1
1888.2	77.5°	988.5	115.1	52.3	43.2	22.2	20.9	31.4	31.4	20.9	11.8
379.2	80°	224.9	43.2	26.2	17.0	10.5	9.2	10.5	9.2	5.2	1.3
116.4	82.5°	64.1	17.0	10.5	6.5	3.9	3.9	1.3	0.0	0.0	0.0
40.5	85°	18.3	7.8	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
14.4	87.5°	7.8	1.3	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

180°
2098.7
1916.9
1617.5
1246.1
915.3
788.5
766.3
744.0
720.5
698.3
676.0
653.8
630.3
598.9
557.0
493.0
422.4
349.1
289.0
245.8
222.3
206.6
189.6
172.6
149.1
112.5
87.6
73.2
57.5
41.8
26.2
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