

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: P951590

Luminaire Tested: **GALN-SB5C-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951590
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-SB5C-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 615mA 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: 21116 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

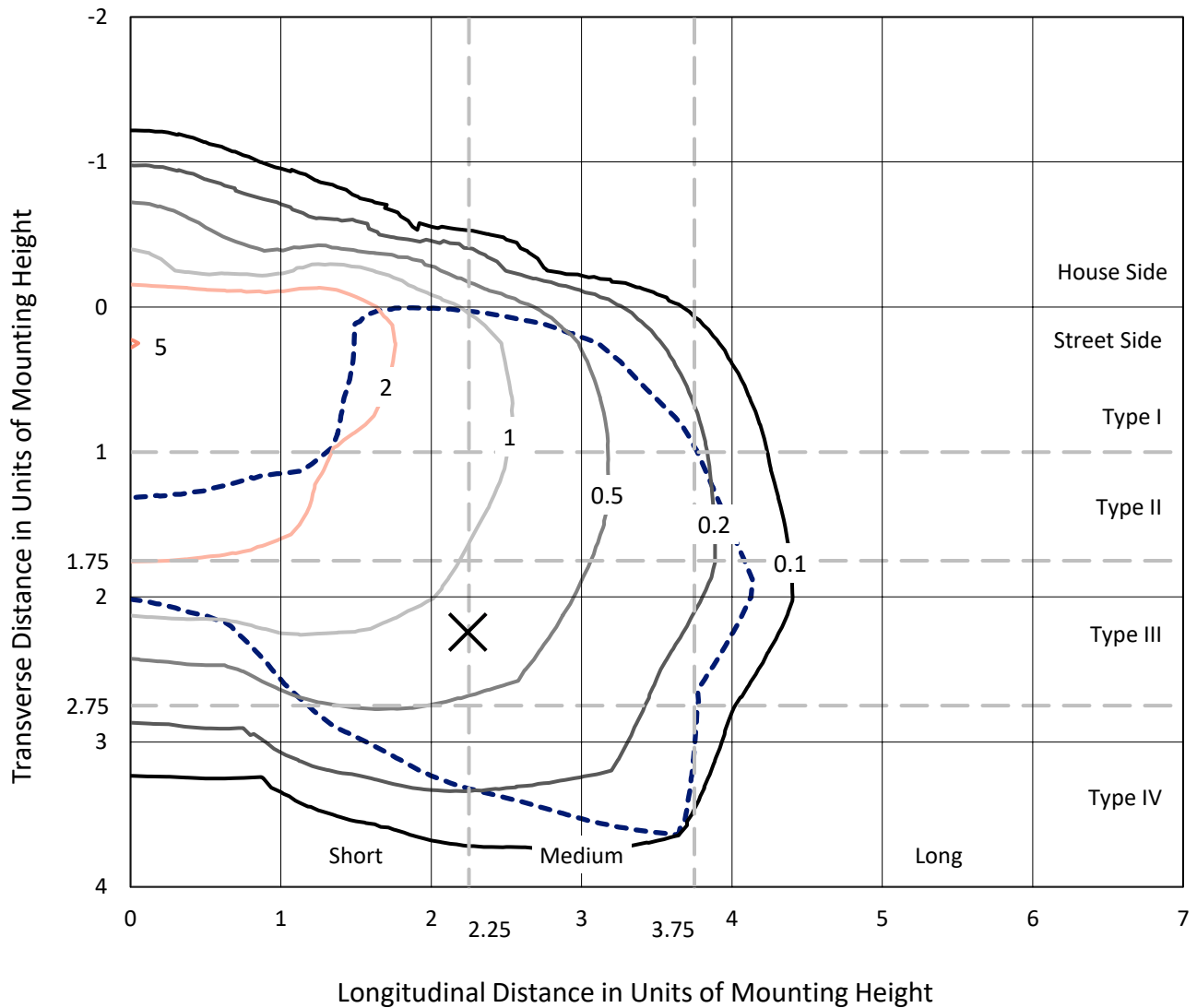
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

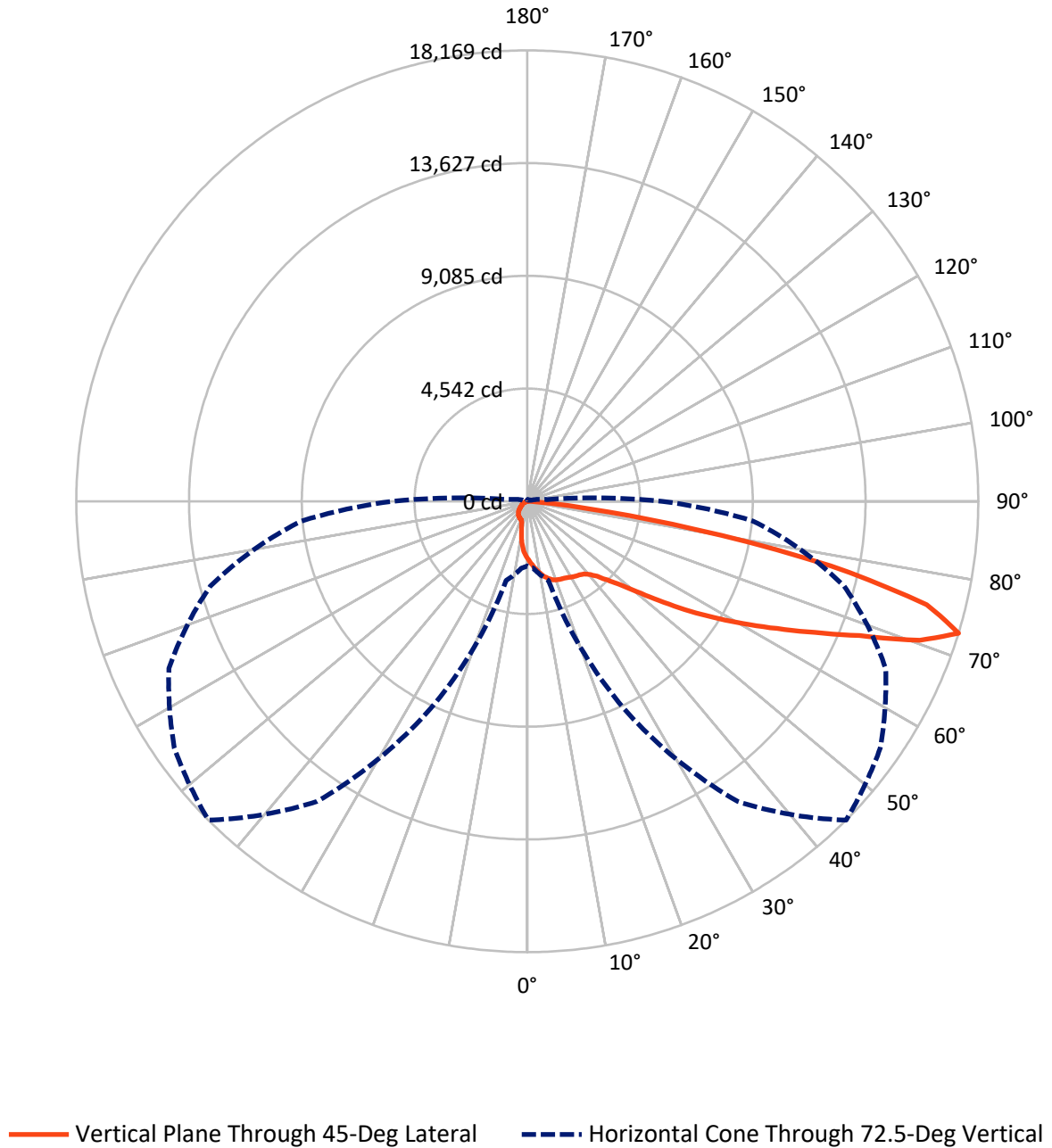
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2218.7	0.0	2218.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	18897.3	0.0	18897.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	21116.0	0.0	21116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.0	1.0
10°-20°	637.0	3.0
20°-30°	1046.1	5.0
30°-40°	1483.6	7.0
40°-50°	2452.2	11.6
50°-60°	4405.0	20.9
60°-70°	6116.6	29.0
70°-80°	4436.8	21.0
80°-90°	320.8	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°	21116.0	100.0
0°-180°	21116.0	100.0

Coefficient of Utilization



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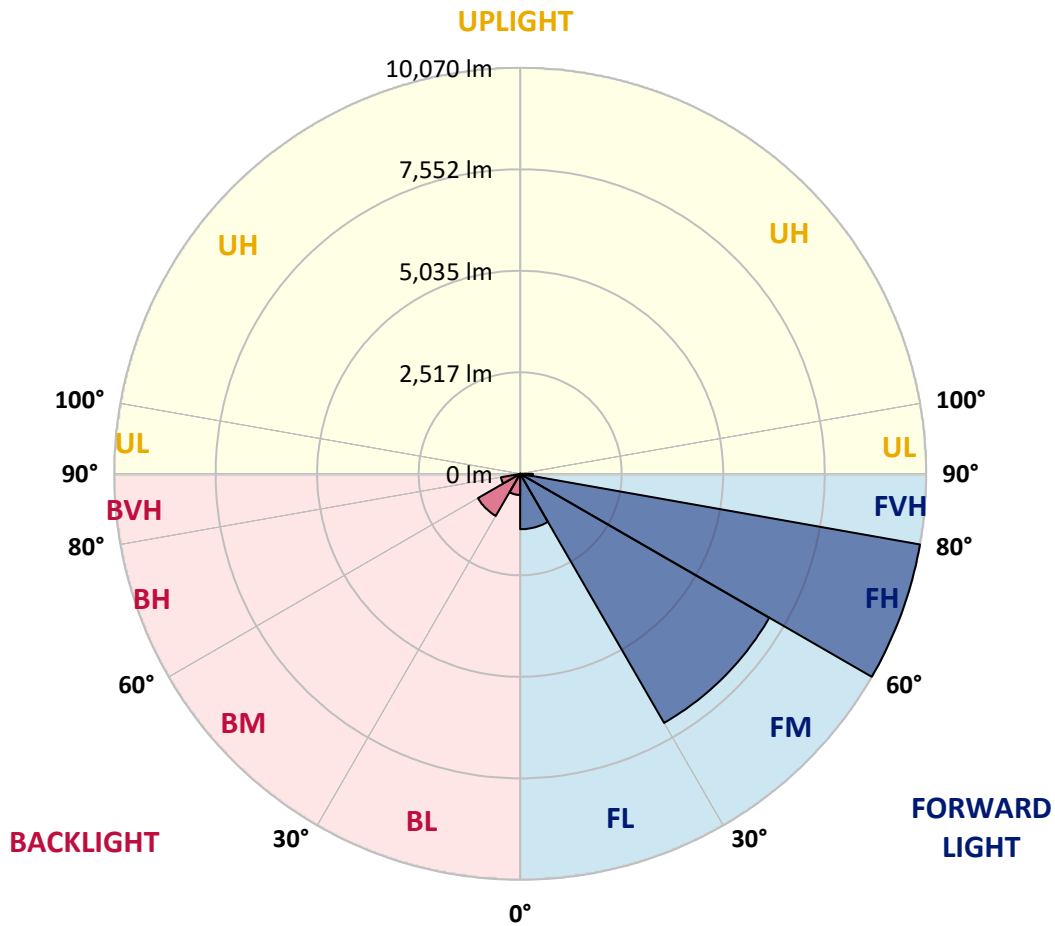
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1375.5	6.5			
FM (30°-60°)	7134.1	33.8			
FH (60°-80°)	10069.6	47.7			G4/12000
FVH (80°-90°)	318.1	1.5			G3/500
BL (0°-30°)	525.5	2.5	B2/1000		
BM (30°-60°)	1206.7	5.7	B2/2500		
BH (60°-80°)	483.8	2.3	B1/500		G1/500
BVH (80°-90°)	2.7	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°	2313.3	2313.3	2313.3	2313.3	2313.3	2313.3	2313.3	2313.3	2313.3	2313.3
2.5°	2526.6	2530.9	2528.1	2510.8	2481.9	2466.1	2457.4	2428.6	2409.9	2376.7
5°	2758.7	2776.0	2765.9	2731.3	2676.5	2637.6	2626.1	2567.0	2513.6	2451.7
7.5°	3005.1	3013.8	2995.0	2950.4	2876.9	2810.6	2800.5	2718.3	2633.3	2538.1
10°	3218.4	3228.5	3199.7	3134.8	3051.3	2969.1	2954.7	2863.9	2763.0	2646.2
12.5°	3397.2	3407.3	3369.8	3292.0	3199.7	3114.7	3100.3	3005.1	2894.2	2764.4
15°	3532.7	3551.4	3500.9	3417.3	3317.9	3232.9	3225.7	3132.0	3023.9	2879.7
17.5°	3611.9	3630.7	3583.1	3482.2	3397.2	3325.1	3316.5	3238.6	3137.7	2999.4
20°	3624.9	3642.2	3591.7	3503.8	3433.2	3375.5	3371.2	3315.0	3241.5	3108.9
22.5°	3586.0	3607.6	3561.5	3490.9	3441.8	3411.6	3405.8	3374.1	3332.3	3219.9
25°	3545.6	3562.9	3528.3	3466.4	3440.4	3437.5	3441.8	3436.1	3427.4	3332.3
27.5°	3542.7	3561.5	3522.6	3463.5	3449.1	3479.3	3483.6	3511.0	3518.2	3434.6
30°	3567.2	3580.2	3542.7	3480.8	3473.6	3542.7	3544.2	3593.2	3604.7	3521.1
32.5°	3620.6	3635.0	3597.5	3506.7	3496.6	3593.2	3597.5	3662.4	3681.1	3613.4
35°	3746.0	3763.3	3720.0	3578.8	3542.7	3640.7	3653.7	3730.1	3767.6	3711.4
37.5°	4058.7	4008.3	3949.2	3724.3	3648.0	3715.7	3737.3	3826.7	3893.0	3828.1
40°	4835.6	4677.1	4492.6	3972.3	3832.4	3875.7	3893.0	3982.3	4073.1	4009.7
42.5°	6001.6	5814.2	5517.3	4543.0	4110.6	4132.2	4145.2	4223.0	4351.3	4300.9
45°	7040.8	6973.1	6670.4	5517.3	4630.9	4524.3	4540.1	4580.5	4769.3	4750.6
47.5°	7839.3	7800.4	7566.9	6635.8	5510.1	5004.2	5048.9	5067.6	5340.1	5406.4
50°	8453.3	8438.9	8229.9	7630.3	6658.9	5711.9	5727.8	5687.4	6095.3	6259.6
52.5°	9032.7	9081.7	8927.5	8554.2	7885.4	6638.7	6635.8	6445.5	6996.1	7244.0
55°	9555.9	9573.2	9589.0	9496.8	9119.2	7693.7	7666.3	7355.0	8041.1	8297.6
57.5°	10047.4	10054.6	10195.8	10384.6	10403.4	8826.6	8776.1	8402.8	9182.6	9365.6
60°	10377.4	10410.6	10708.9	11233.6	11462.7	9995.5	9968.1	9587.6	10344.3	10429.3
62.5°	9901.8	10103.6	10855.9	11896.6	12463.0	11291.2	11278.3	10920.8	11566.5	11497.3
65°	8015.1	8356.7	9679.8	12344.8	13444.5	12738.3	12757.0	12376.5	12821.9	12597.1
67.5°	5606.7	5967.0	7532.3	12380.9	14541.4	14437.6	14545.7	13949.0	14155.1	13650.6
70°	3877.1	4063.1	5082.1	11605.4	15396.1	16778.3	16775.4	15880.4	15481.1	14130.6
72.5°	2607.3	2703.9	3300.6	9207.1	14767.7	18169.2	18085.6	17356.3	15927.9	13215.4
75°	1099.7	1170.3	1527.8	5174.3	11683.3	16622.6	16396.3	15338.4	14152.2	10406.3
77.5°	348.8	379.1	602.5	1852.1	6435.4	12494.7	12255.5	9578.9	9485.3	5220.4
80°	165.8	193.1	338.7	743.7	2532.4	6795.8	6762.6	4345.5	4080.3	1409.6
82.5°	72.1	85.0	187.4	397.8	1132.9	2424.3	2473.3	1478.8	1223.7	534.7
85°	23.1	30.3	86.5	183.0	478.5	602.5	595.3	351.7	492.9	291.1
87.5°	0.0	0.0	28.8	41.8	49.0	34.6	38.9	30.3	136.9	80.7
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°
2313.3	0°	2313.3	2313.3	2313.3	2313.3	2313.3	2313.3	2313.3	2313.3	2313.3	2313.3
2342.1	2.5°	2324.8	2301.8	2261.4	2223.9	2190.8	2157.6	2137.5	2108.6	2105.8	2105.8
2379.6	5°	2340.7	2303.2	2231.1	2154.8	2066.8	1983.2	1899.6	1818.9	1793.0	1774.3
2440.1	7.5°	2386.8	2327.7	2213.9	2068.3	1901.1	1718.0	1589.8	1451.4	1398.1	1369.2
2520.9	10°	2453.1	2372.4	2199.4	1944.3	1673.4	1424.0	1241.0	1091.1	1033.4	1008.9
2608.8	12.5°	2526.6	2427.2	2173.5	1790.1	1424.0	1125.7	946.9	877.8	869.1	869.1
2714.0	15°	2614.5	2493.5	2128.8	1608.5	1163.1	890.7	827.3	830.2	838.8	844.6
2816.3	17.5°	2705.3	2564.1	2058.2	1405.3	932.5	801.4	802.8	807.1	814.3	820.1
2927.3	20°	2803.3	2634.7	1964.5	1189.1	799.9	775.4	779.7	784.1	789.8	792.7
3031.1	22.5°	2908.6	2701.0	1853.5	977.2	755.2	753.8	755.2	759.6	766.8	766.8
3152.1	25°	3021.0	2774.5	1726.7	823.0	732.2	732.2	735.1	738.0	743.7	743.7
3268.9	27.5°	3136.3	2842.3	1592.6	742.3	712.0	710.6	710.6	714.9	717.8	719.2
3384.2	30°	3263.1	2921.5	1458.6	725.0	696.2	688.9	684.6	687.5	690.4	691.8
3505.3	32.5°	3392.8	2997.9	1339.0	732.2	680.3	667.3	652.9	650.0	650.0	655.8
3630.7	35°	3537.0	3081.5	1246.7	756.7	671.7	635.6	612.6	599.6	601.0	609.7
3780.6	37.5°	3709.9	3182.4	1179.0	778.3	665.9	599.6	562.1	546.3	536.2	546.3
3986.7	40°	3936.2	3330.9	1130.0	795.6	658.7	557.8	507.3	481.4	462.7	468.4
4306.6	42.5°	4269.2	3564.4	1111.3	797.0	642.8	508.8	451.1	416.5	389.2	390.6
4788.0	45°	4736.1	3933.3	1207.8	778.3	608.2	455.5	392.0	345.9	328.6	324.3
5507.2	47.5°	5376.1	4470.9	1431.2	739.4	557.8	403.6	334.4	295.5	282.5	275.3
6451.3	50°	6233.7	5161.3	1679.1	696.2	507.3	354.6	286.8	262.3	253.7	246.5
7571.2	52.5°	7228.2	5861.8	1882.4	652.9	456.9	311.3	256.6	242.1	234.9	229.2
8652.2	55°	8140.5	6344.6	1870.8	606.8	407.9	276.7	234.9	226.3	217.6	211.9
9583.3	57.5°	8708.4	6412.4	1542.2	556.3	351.7	249.3	214.8	209.0	198.9	191.7
10389.0	60°	8969.3	6026.1	1081.0	490.0	295.5	223.4	193.1	190.3	177.3	167.2
11151.4	62.5°	9016.8	5308.3	720.7	407.9	246.5	198.9	171.5	167.2	149.9	132.6
11771.2	65°	8823.7	4282.1	498.7	318.5	210.4	173.0	147.0	138.4	119.6	102.3
11918.2	67.5°	8212.6	3006.6	347.4	229.2	178.7	136.9	116.7	113.9	99.5	85.0
11168.7	70°	7092.7	1713.7	232.1	171.5	141.2	93.7	92.2	95.1	80.7	69.2
9124.9	72.5°	5438.1	784.1	144.1	125.4	96.6	63.4	73.5	74.9	62.0	51.9
5693.2	75°	3201.1	335.8	90.8	80.7	49.0	41.8	53.3	54.8	41.8	33.2
2081.3	77.5°	1089.6	126.8	57.7	47.6	24.5	23.1	34.6	34.6	23.1	13.0
418.0	80°	247.9	47.6	28.8	18.7	11.5	10.1	11.5	10.1	5.8	1.4
128.3	82.5°	70.6	18.7	11.5	7.2	4.3	4.3	1.4	0.0	0.0	0.0
44.7	85°	20.2	8.6	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
15.9	87.5°	8.6	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

180°
2313.3
2113.0
1782.9
1373.6
1008.9
869.1
844.6
820.1
794.2
769.7
745.2
720.7
694.7
660.1
614.0
543.4
465.5
384.8
318.5
271.0
245.0
227.7
209.0
190.3
164.3
124.0
96.6
80.7
63.4
46.1
28.8
10.1
0.0
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