

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: P949463

Luminaire Tested: **GALN-SB4A-950-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-950-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10589 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

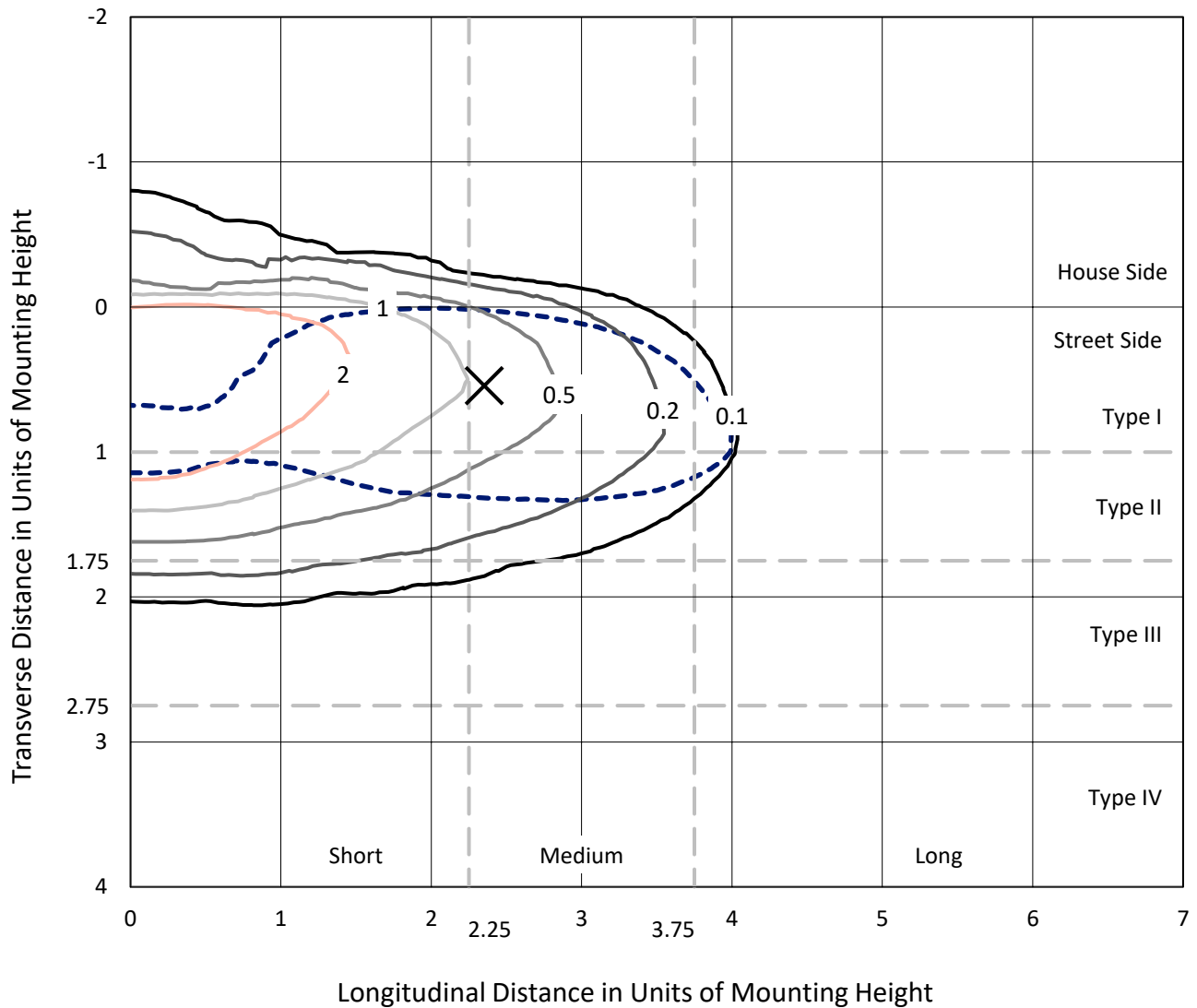
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

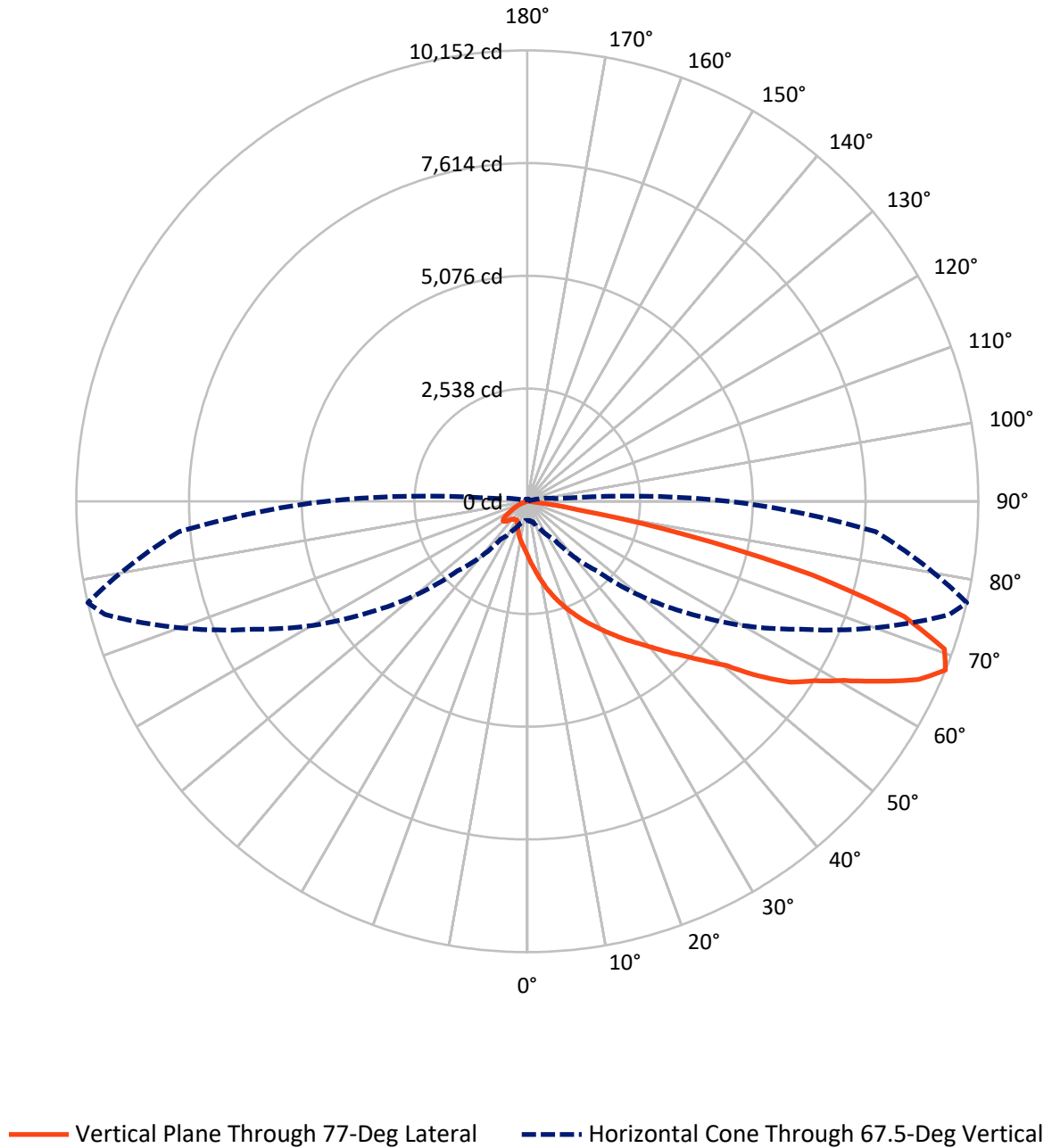
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	779.0	0.0	779.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	9810.0	0.0	9810.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	10589.0	0.0	10589.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	1.2
10°-20°	436.4	4.1
20°-30°	842.2	8.0
30°-40°	1462.1	13.8
40°-50°	2122.9	20.0
50°-60°	2437.9	23.0
60°-70°	2116.6	20.0
70°-80°	996.9	9.4
80°-90°	49.3	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°	10589.0	100.0
0°-180°	10589.0	100.0

Coefficient of Utilization



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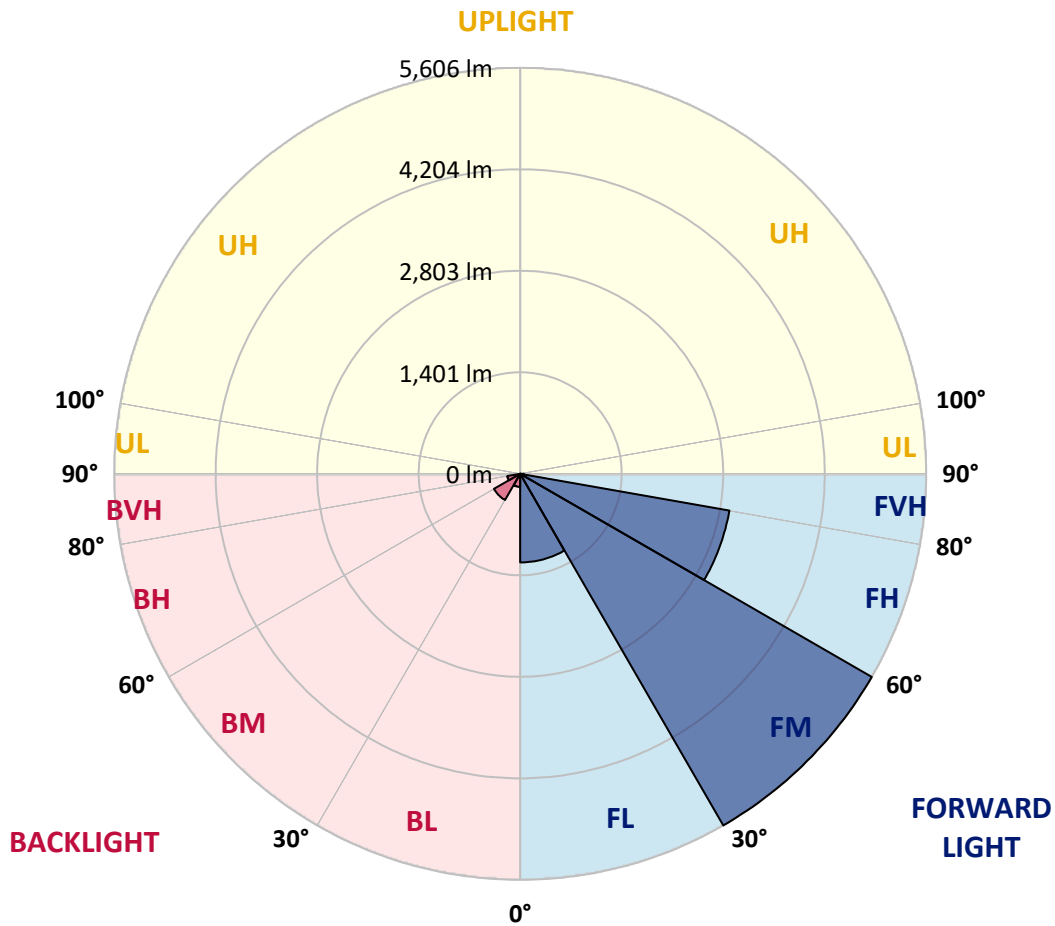
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1222.9	11.5			
FM (30°-60°)	5605.5	52.9			
FH (60°-80°)	2933.1	27.7			G2/5000
FVH (80°-90°)	48.4	0.5			G1/100
BL (0°-30°)	180.4	1.7	B1/500		
BM (30°-60°)	417.4	3.9	B1/1000		
BH (60°-80°)	180.4	1.7	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1221.1	1221.1	1221.1	1221.1	1221.1	1221.1	1221.1	1221.1	1221.1	1221.1
2.5°	1690.6	1701.1	1686.0	1657.0	1613.6	1585.3	1516.3	1451.2	1378.9	1355.9
5°	2060.8	2070.0	2052.9	2021.3	1963.4	1908.2	1817.5	1681.4	1540.0	1494.6
7.5°	2335.0	2340.2	2333.6	2304.7	2249.5	2187.0	2085.7	1924.6	1714.9	1664.9
10°	2532.2	2549.3	2547.3	2536.2	2499.3	2448.7	2340.9	2157.4	1910.8	1846.4
12.5°	2663.1	2682.1	2693.3	2718.3	2716.3	2684.1	2589.4	2395.4	2106.1	2030.5
15°	2701.2	2721.6	2764.3	2822.2	2873.5	2889.9	2823.5	2628.9	2321.1	2224.5
17.5°	2679.5	2711.1	2762.4	2853.8	2966.2	3040.5	3033.3	2854.4	2516.4	2406.0
20°	2727.5	2757.8	2797.9	2874.8	3005.7	3140.5	3194.4	3070.1	2710.4	2594.7
22.5°	2993.2	2987.9	2991.8	3004.3	3082.6	3216.1	3327.2	3266.0	2902.4	2784.1
25°	3414.0	3390.3	3350.2	3282.5	3262.8	3327.2	3442.9	3439.6	3104.9	2978.0
27.5°	3896.6	3892.7	3798.7	3635.6	3543.5	3518.5	3573.8	3608.6	3305.5	3170.0
30°	4358.9	4369.4	4242.5	4061.0	3892.0	3794.1	3744.1	3769.1	3509.3	3377.2
32.5°	4761.3	4772.5	4634.4	4422.0	4212.9	4094.6	3989.3	3927.5	3731.6	3587.6
35°	5101.3	5112.4	4954.0	4719.2	4496.3	4389.1	4270.1	4101.1	3955.2	3821.0
37.5°	5405.0	5401.8	5189.4	4952.7	4733.7	4648.9	4586.4	4314.8	4185.3	4055.8
40°	5584.6	5598.4	5416.9	5155.8	4943.4	4881.6	4877.7	4579.8	4450.9	4325.4
42.5°	5637.2	5661.5	5530.0	5315.6	5123.0	5055.9	5159.1	4866.5	4760.0	4637.7
45°	5542.5	5566.1	5506.3	5357.7	5245.3	5201.9	5401.1	5163.7	5090.1	4969.1
47.5°	5266.3	5295.9	5310.4	5278.8	5277.5	5321.5	5618.1	5476.7	5482.0	5358.4
50°	4731.7	4781.7	4914.5	5026.3	5199.2	5416.2	5829.2	5816.0	5923.9	5817.3
52.5°	3759.9	3830.9	4288.5	4594.3	4982.9	5398.5	6061.3	6360.5	6699.1	6543.3
55°	3021.4	3021.4	3393.6	3965.7	4560.8	5281.4	6162.5	6714.2	7227.1	7190.3
57.5°	2463.2	2492.8	2730.1	3235.8	3949.9	5002.6	6225.0	6936.5	7652.5	7625.6
60°	1520.3	1584.0	2032.5	2531.6	3254.9	4506.2	6185.6	7161.4	8168.7	8190.4
62.5°	856.1	879.8	1079.7	1821.4	2530.9	3838.8	5883.7	7287.0	8828.9	8921.0
65°	591.1	603.0	679.9	1133.6	1754.3	3056.3	5293.9	7208.7	9490.4	9676.5
67.5°	429.4	435.3	483.3	692.4	1040.9	2215.9	4369.4	6814.2	9840.9	10151.9
70°	330.1	334.0	368.9	455.0	614.8	1367.7	3173.3	6029.7	9587.1	9958.6
72.5°	268.3	272.2	299.2	336.7	407.7	808.8	1923.3	4896.8	8466.6	8867.7
75°	226.2	231.5	255.8	280.1	319.6	519.5	902.2	3410.0	6367.0	6630.1
77.5°	125.6	115.7	207.8	232.1	269.6	328.8	422.1	2006.8	3565.9	3638.9
80°	78.2	80.9	165.0	186.7	207.1	165.7	193.3	772.6	1236.2	1174.4
82.5°	4.6	10.5	126.9	134.8	142.0	71.0	73.0	262.4	297.9	273.5
85°	0.0	0.0	57.9	46.7	49.3	20.4	21.0	61.2	40.1	43.4
87.5°	0.0	0.0	0.0	1.3	0.0	2.0	3.9	5.3	2.0	2.6
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°
1221.1	0°	1221.1	1221.1	1221.1	1221.1	1221.1	1221.1	1221.1	1221.1	1221.1	1221.1
1283.5	2.5°	1237.5	1191.5	1098.1	1006.7	932.4	863.4	814.0	767.4	743.7	742.4
1366.4	5°	1275.0	1178.3	991.6	826.5	693.7	587.2	518.1	468.8	443.8	435.3
1468.3	7.5°	1327.6	1182.3	898.2	668.7	512.2	420.8	381.4	365.6	360.3	354.4
1583.4	10°	1394.0	1191.5	814.7	538.5	403.7	357.7	341.9	335.3	331.4	327.5
1712.9	12.5°	1468.3	1200.0	731.9	447.1	355.1	331.4	320.2	312.3	307.1	302.5
1845.7	15°	1540.6	1205.3	645.7	383.4	330.1	311.0	299.2	290.6	283.4	278.1
1975.9	17.5°	1612.3	1212.5	564.8	345.2	309.7	290.6	278.8	268.3	262.4	256.4
2112.7	20°	1691.9	1211.2	488.6	318.3	289.3	270.3	257.8	247.9	242.0	235.4
2257.4	22.5°	1765.5	1204.6	421.5	295.2	268.3	249.9	236.1	226.2	220.3	215.0
2405.3	25°	1850.3	1199.4	365.6	274.2	248.6	230.1	215.0	205.8	199.2	194.6
2553.9	27.5°	1931.9	1191.5	324.8	255.1	229.5	211.7	197.3	186.7	180.8	177.5
2707.1	30°	2012.1	1189.5	309.7	236.7	212.4	194.6	180.2	170.3	165.7	164.4
2875.5	32.5°	2108.8	1194.8	316.3	230.1	196.6	178.9	165.0	157.8	153.2	153.2
3062.9	35°	2212.0	1193.5	326.1	236.1	186.1	163.1	152.6	147.9	143.3	143.3
3270.6	37.5°	2341.5	1195.4	334.0	245.9	182.1	149.9	144.0	138.1	135.5	135.5
3498.2	40°	2534.8	1260.5	330.1	254.5	180.8	140.7	128.9	126.9	124.9	124.9
3755.3	42.5°	2771.6	1401.9	335.3	255.1	180.2	134.1	118.4	122.3	117.7	117.0
4045.2	45°	3030.6	1556.4	368.9	241.3	179.5	130.9	113.1	117.7	110.5	110.5
4381.2	47.5°	3287.7	1709.6	403.1	221.6	177.5	130.2	108.5	105.9	103.9	104.6
4819.2	50°	3642.2	1834.6	416.2	194.6	172.9	128.9	99.9	100.6	99.3	100.6
5436.6	52.5°	4028.1	1860.9	400.4	164.4	159.8	124.9	94.0	96.7	96.0	97.3
5871.2	55°	4268.8	1832.6	330.7	136.8	139.4	109.2	88.1	93.4	93.4	93.4
6296.0	57.5°	4517.4	1712.3	234.7	111.1	115.7	89.4	82.9	90.1	89.4	88.8
6807.6	60°	4696.2	1517.6	154.5	91.4	92.1	73.6	76.9	84.8	84.2	80.9
7335.0	62.5°	4829.7	1302.6	99.3	77.6	70.4	66.4	70.4	76.9	74.3	67.1
7782.1	65°	4814.6	1004.7	76.3	66.4	57.9	57.9	61.2	67.1	59.2	47.3
7867.6	67.5°	4533.8	679.9	63.1	55.9	48.7	48.0	50.6	55.9	50.6	40.1
7429.6	70°	4032.1	444.5	50.6	43.4	38.8	35.5	40.8	48.0	42.7	32.2
6325.0	72.5°	3272.6	270.9	38.1	31.6	28.3	23.0	32.2	39.5	34.2	23.7
4398.3	75°	2117.3	138.1	26.3	20.4	15.1	13.8	23.7	29.6	23.7	14.5
1951.6	77.5°	810.1	57.9	14.5	9.2	7.9	6.6	13.2	17.8	9.9	3.3
378.1	80°	155.8	24.3	7.2	4.6	3.9	2.6	2.0	1.3	0.0	0.0
67.1	82.5°	27.0	7.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
13.2	85°	9.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.6	87.5°	3.3	0.0	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°
1221.1
741.1
434.0
353.1
326.1
301.2
277.5
255.8
234.7
214.4
194.0
177.5
163.7
153.2
143.3
135.5
124.9
116.4
110.5
104.6
100.6
97.3
93.4
88.8
80.9
65.8
46.0
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22.4
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