

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: P949358

Luminaire Tested: **GALN-SB4A-850-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949358
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-850-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 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: 14560 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

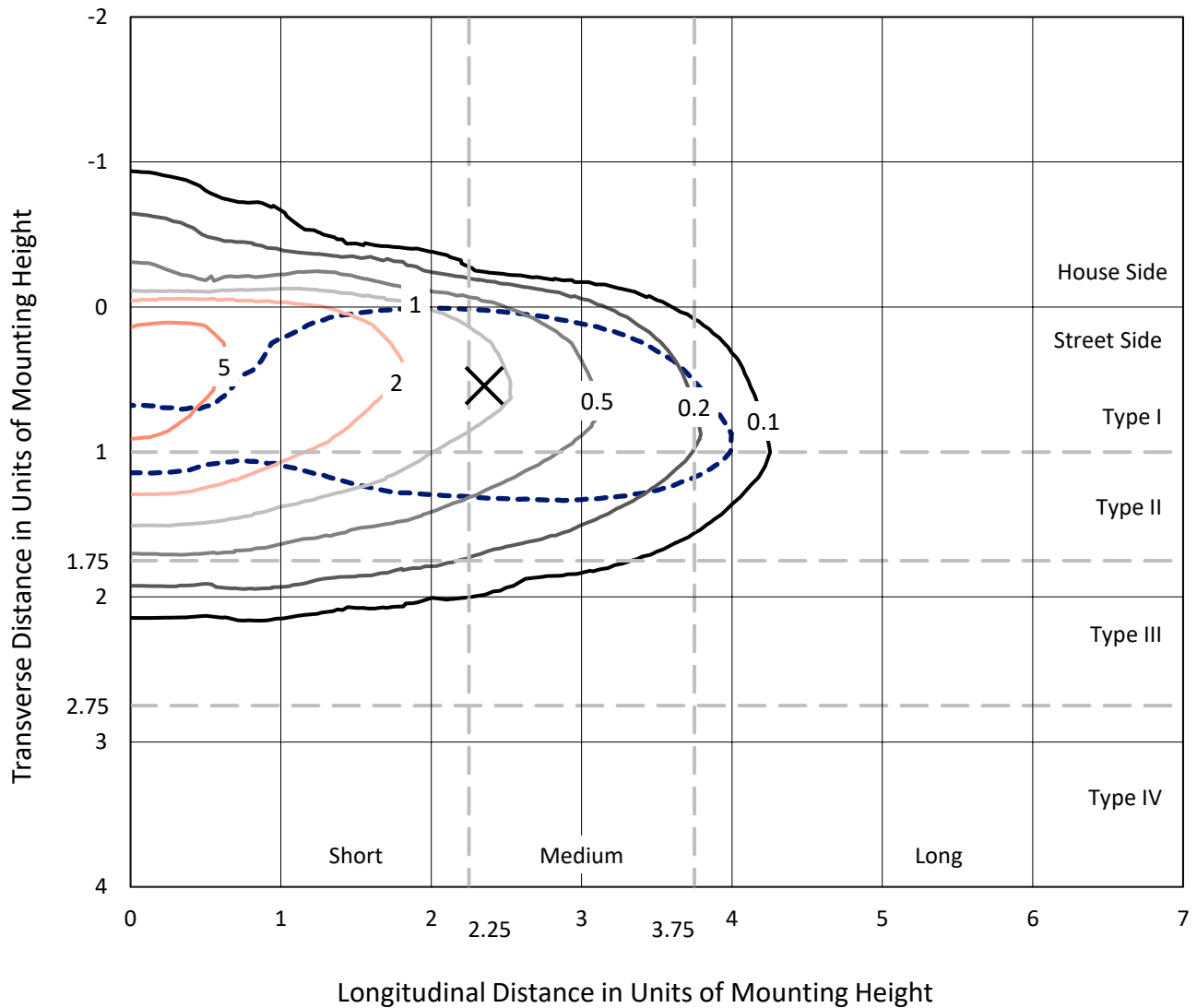
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949358
 CATALOG NUMBER: GALN-SB4A-850-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

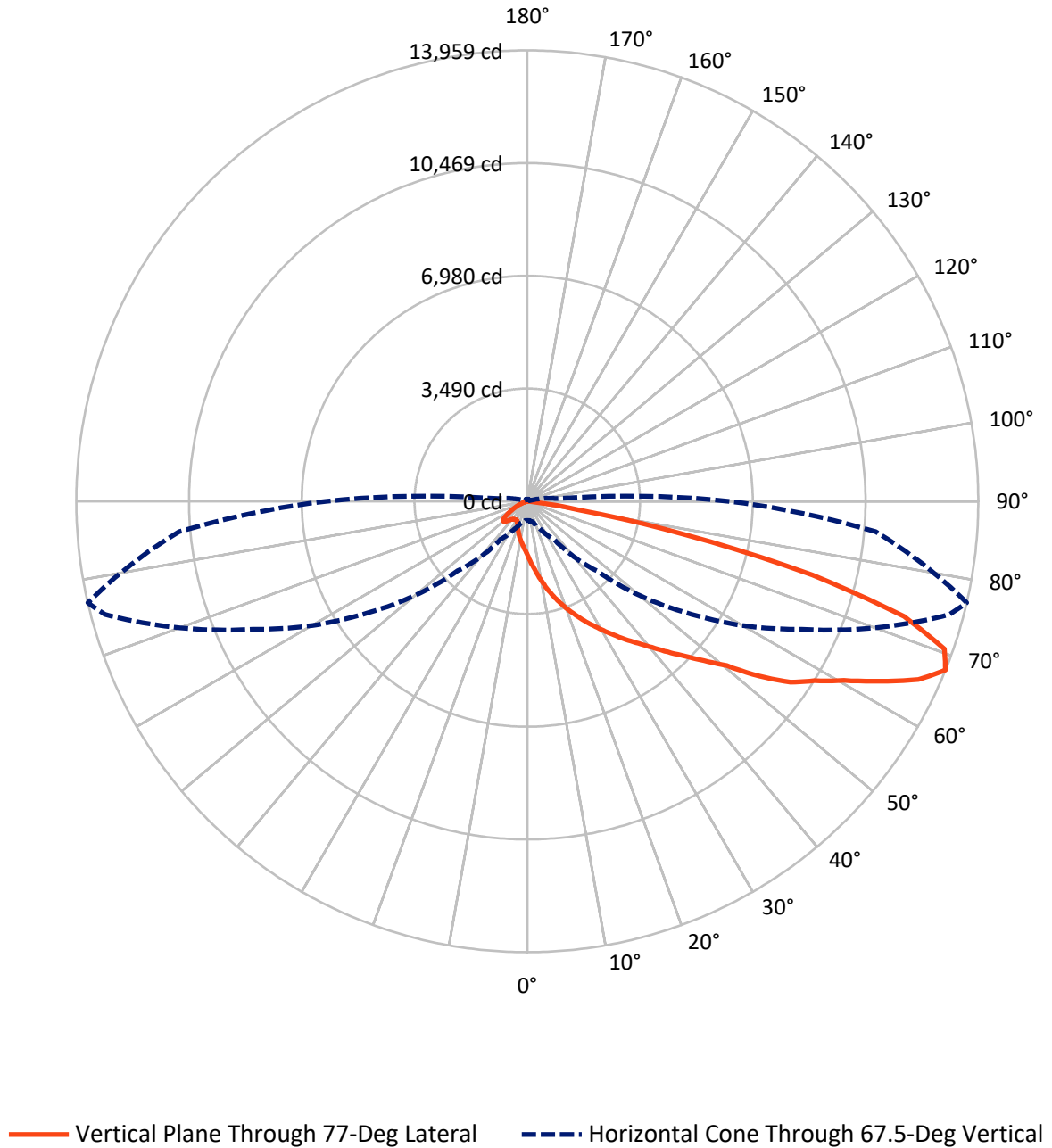
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P949358
CATALOG NUMBER: GALN-SB4A-850-U-T2R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1071.2	0.0	1071.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	13488.8	0.0	13488.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	14560.0	0.0	14560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	1.2
10°-20°	600.1	4.1
20°-30°	1158.0	8.0
30°-40°	2010.4	13.8
40°-50°	2919.0	20.0
50°-60°	3352.2	23.0
60°-70°	2910.3	20.0
70°-80°	1370.8	9.4
80°-90°	67.8	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°	14560.0	100.0
0°-180°	14560.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949358

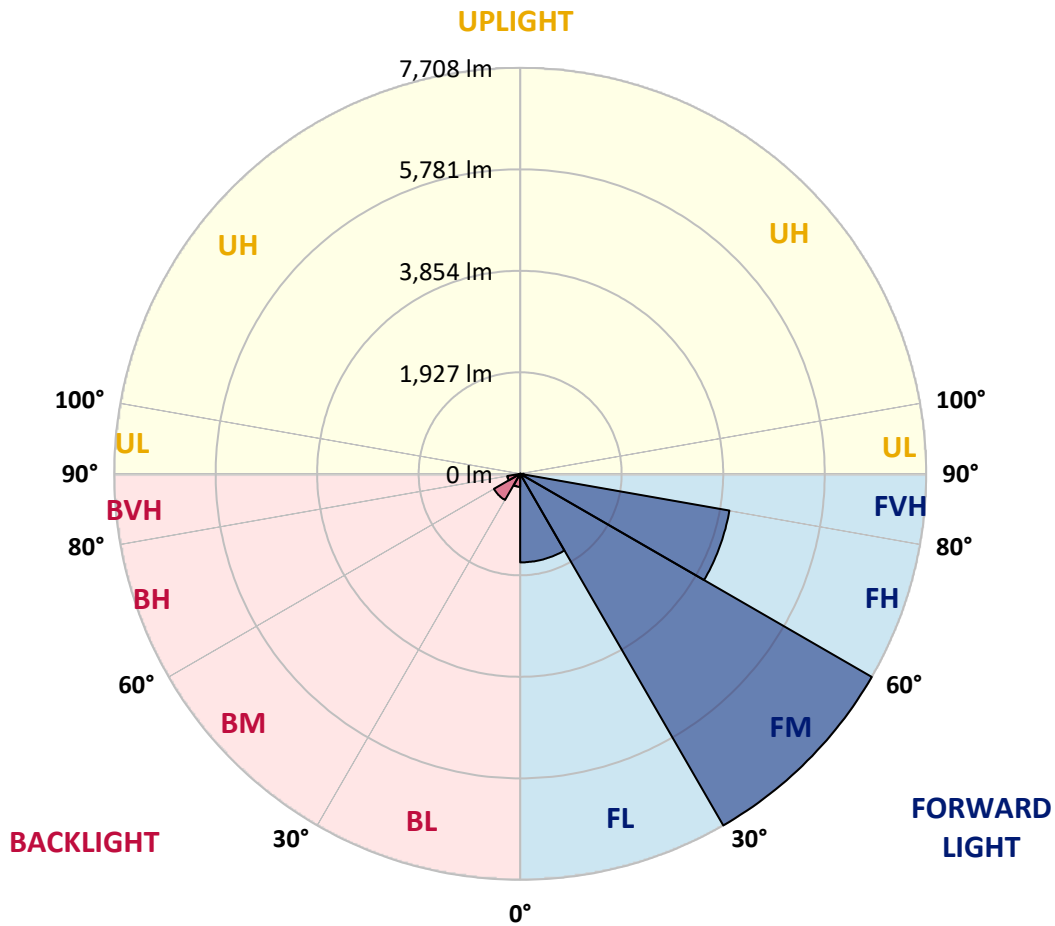
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1681.5	11.5			
FM (30°-60°)	7707.7	52.9			
FH (60°-80°)	4033.1	27.7			G2/5000
FVH (80°-90°)	66.5	0.5			G1/100
BL (0°-30°)	248.0	1.7	B1/500		
BM (30°-60°)	574.0	3.9	B1/1000		
BH (60°-80°)	248.0	1.7	B1/500		G1/500
BVH (80°-90°)	1.2	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



REPORT NUMBER: P949358

CATALOG NUMBER: GALN-SB4A-850-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0
2.5°	2324.5	2339.0	2318.2	2278.4	2218.8	2179.9	2084.9	1995.4	1896.0	1864.3
5°	2833.6	2846.2	2822.7	2779.3	2699.8	2623.8	2499.0	2311.9	2117.5	2055.1
7.5°	3210.6	3217.8	3208.8	3169.0	3093.1	3007.2	2867.9	2646.4	2358.0	2289.3
10°	3481.8	3505.3	3502.6	3487.3	3436.6	3367.0	3218.7	2966.5	2627.4	2538.8
12.5°	3661.8	3688.0	3703.3	3737.7	3735.0	3690.7	3560.5	3293.8	2896.0	2792.0
15°	3714.2	3742.2	3801.0	3880.6	3951.1	3973.7	3882.4	3614.7	3191.6	3058.7
17.5°	3684.4	3727.8	3798.3	3924.0	4078.6	4180.7	4170.8	3924.9	3460.1	3308.2
20°	3750.4	3791.9	3847.1	3952.9	4132.8	4318.2	4392.3	4221.4	3726.9	3567.7
22.5°	4115.6	4108.4	4113.8	4131.0	4238.6	4422.1	4574.9	4490.8	3990.9	3828.1
25°	4694.3	4661.7	4606.6	4513.5	4486.3	4574.9	4734.1	4729.5	4269.3	4094.8
27.5°	5357.9	5352.5	5223.2	4999.0	4872.4	4838.0	4914.0	4961.9	4545.1	4358.8
30°	5993.5	6008.0	5833.5	5583.9	5351.6	5216.9	5148.2	5182.5	4825.4	4643.6
32.5°	6546.9	6562.2	6372.4	6080.3	5792.8	5630.1	5485.4	5400.4	5131.0	4933.0
35°	7014.3	7029.7	6811.8	6489.0	6182.5	6035.1	5871.5	5639.1	5438.4	5253.9
37.5°	7432.0	7427.5	7135.4	6810.0	6508.9	6392.2	6306.4	5932.9	5754.8	5576.7
40°	7678.8	7697.8	7448.3	7089.3	6797.3	6712.3	6706.9	6297.3	6120.1	5947.4
42.5°	7751.2	7784.6	7603.8	7309.0	7044.1	6951.9	7093.9	6691.5	6545.0	6376.9
45°	7621.0	7653.5	7571.2	7366.9	7212.3	7152.6	7426.6	7100.2	6998.9	6832.6
47.5°	7241.2	7281.9	7301.8	7258.4	7256.6	7317.2	7724.9	7530.6	7537.8	7367.8
50°	6506.2	6574.9	6757.5	6911.2	7149.0	7447.4	8015.2	7997.1	8145.4	7998.9
52.5°	5169.9	5267.5	5896.8	6317.2	6851.5	7423.0	8334.3	8745.7	9211.3	8997.1
55°	4154.5	4154.5	4666.2	5452.8	6271.1	7262.0	8473.6	9232.1	9937.4	9886.7
57.5°	3386.9	3427.6	3754.0	4449.3	5431.1	6878.7	8559.5	9537.7	10522.3	10485.3
60°	2090.4	2178.1	2794.7	3480.9	4475.5	6196.0	8505.2	9847.0	11232.1	11261.9
62.5°	1177.2	1209.7	1484.6	2504.5	3480.0	5278.4	8090.2	10019.6	12139.8	12266.4
65°	812.8	829.1	934.9	1558.7	2412.2	4202.4	7279.2	9912.1	13049.4	13305.3
67.5°	590.4	598.5	664.5	952.1	1431.2	3046.9	6008.0	9369.6	13531.3	13959.0
70°	453.9	459.3	507.2	625.7	845.4	1880.6	4363.4	8290.9	13182.3	13693.2
72.5°	368.9	374.3	411.4	462.9	560.6	1112.1	2644.6	6733.1	11641.7	12193.2
75°	311.0	318.3	351.7	385.2	439.4	714.3	1240.5	4688.9	8754.8	9116.4
77.5°	172.7	159.1	285.7	319.2	370.7	452.1	580.5	2759.4	4903.1	5003.5
80°	107.6	111.2	226.9	256.8	284.8	227.8	265.8	1062.4	1699.8	1614.8
82.5°	6.3	14.5	174.5	185.3	195.3	97.6	100.4	360.8	409.6	376.1
85°	0.0	0.0	79.6	64.2	67.8	28.0	28.9	84.1	55.2	59.7
87.5°	0.0	0.0	0.0	1.8	0.0	2.7	5.4	7.2	2.7	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949358
 CATALOG NUMBER: GALN-SB4A-850-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1679.0	0°	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0
1764.9	2.5°	1701.6	1638.3	1509.9	1384.2	1282.1	1187.1	1119.3	1055.1	1022.6	1020.8
1878.8	5°	1753.1	1620.2	1363.4	1136.5	953.9	807.4	712.5	644.6	610.3	598.5
2018.9	7.5°	1825.5	1625.6	1235.1	919.5	704.3	578.6	524.4	502.7	495.5	487.3
2177.2	10°	1916.8	1638.3	1120.2	740.5	555.1	491.9	470.2	461.1	455.7	450.3
2355.3	12.5°	2018.9	1650.0	1006.3	614.8	488.2	455.7	440.3	429.5	422.2	415.9
2537.9	15°	2118.4	1657.3	887.9	527.1	453.9	427.7	411.4	399.6	389.7	382.4
2716.9	17.5°	2216.9	1667.2	776.7	474.7	425.8	399.6	383.4	368.9	360.8	352.6
2905.0	20°	2326.3	1665.4	671.8	437.6	397.8	371.6	354.4	340.9	332.7	323.7
3103.9	22.5°	2427.6	1656.4	579.6	406.0	368.9	343.6	324.6	311.0	302.9	295.7
3307.3	25°	2544.2	1649.1	502.7	377.0	341.8	316.4	295.7	283.0	274.0	267.6
3511.7	27.5°	2656.4	1638.3	446.6	350.8	315.5	291.1	271.2	256.8	248.6	244.1
3722.3	30°	2766.7	1635.6	425.8	325.5	292.0	267.6	247.7	234.2	227.8	226.0
3953.8	32.5°	2899.6	1642.8	434.9	316.4	270.3	245.9	226.9	217.0	210.7	210.7
4211.5	35°	3041.5	1641.0	448.5	324.6	255.9	224.2	209.8	203.4	197.1	197.1
4497.2	37.5°	3219.6	1643.7	459.3	338.1	250.4	206.1	198.0	189.9	186.3	186.3
4810.0	40°	3485.4	1733.2	453.9	349.9	248.6	193.5	177.2	174.5	171.8	171.8
5163.5	42.5°	3810.9	1927.6	461.1	350.8	247.7	184.4	162.7	168.2	161.8	160.9
5562.2	45°	4167.2	2140.1	507.2	331.8	246.8	179.9	155.5	161.8	151.9	151.9
6024.3	47.5°	4520.7	2350.8	554.2	304.7	244.1	179.0	149.2	145.6	142.9	143.8
6626.4	50°	5008.0	2522.5	572.3	267.6	237.8	177.2	137.4	138.3	136.5	138.3
7475.4	52.5°	5538.7	2558.7	550.6	226.0	219.7	171.8	129.3	132.9	132.0	133.8
8073.0	55°	5869.7	2519.8	454.8	188.1	191.7	150.1	121.2	128.4	128.4	128.4
8657.1	57.5°	6211.4	2354.4	322.8	152.8	159.1	123.0	113.9	123.9	123.0	122.1
9360.5	60°	6457.3	2086.7	212.5	125.7	126.6	101.3	105.8	116.6	115.7	111.2
10085.6	62.5°	6640.9	1791.1	136.5	106.7	96.7	91.3	96.7	105.8	102.2	92.2
10700.5	65°	6620.1	1381.5	104.9	91.3	79.6	79.6	84.1	92.2	81.4	65.1
10818.0	67.5°	6234.0	934.9	86.8	76.9	66.9	66.0	69.6	76.9	69.6	55.2
10215.8	70°	5544.2	611.2	69.6	59.7	53.3	48.8	56.1	66.0	58.8	44.3
8696.9	72.5°	4499.9	372.5	52.4	43.4	38.9	31.6	44.3	54.2	47.0	32.5
6047.8	75°	2911.3	189.9	36.2	28.0	20.8	19.0	32.5	40.7	32.5	19.9
2683.5	77.5°	1113.9	79.6	19.9	12.7	10.8	9.0	18.1	24.4	13.6	4.5
519.9	80°	214.3	33.5	9.9	6.3	5.4	3.6	2.7	1.8	0.0	0.0
92.2	82.5°	37.1	10.8	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
18.1	85°	12.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.3	87.5°	4.5	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°
1679.0
1019.0
596.7
485.5
448.5
414.1
381.5
351.7
322.8
294.7
266.7
244.1
225.1
210.7
197.1
186.3
171.8
160.0
151.9
143.8
138.3
133.8
128.4
122.1
111.2
90.4
63.3
53.3
42.5
30.7
17.2
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