

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: P955175

Luminaire Tested: **GALN-SB8A-950-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955175
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-SB8A-950-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 21364 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

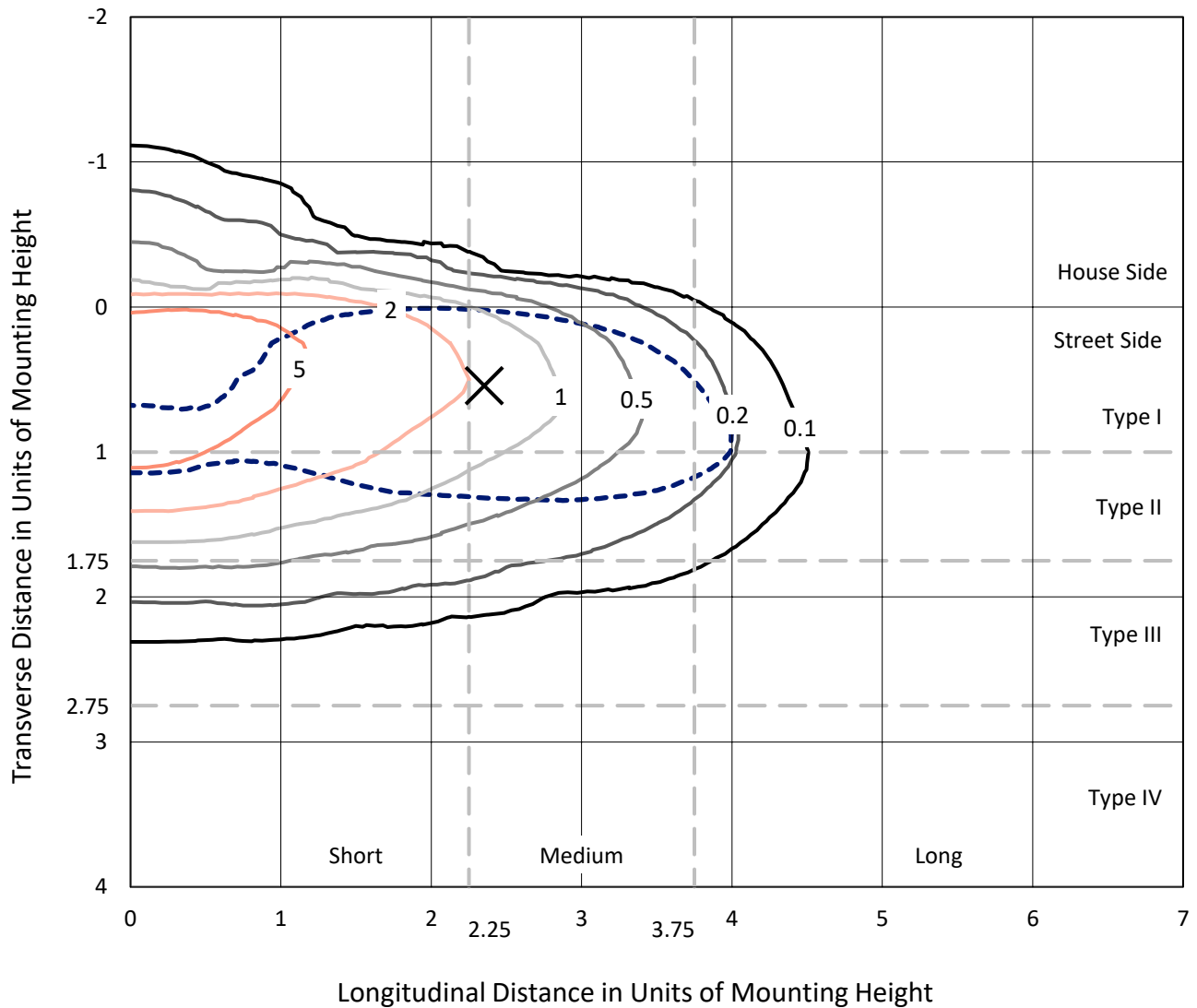
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

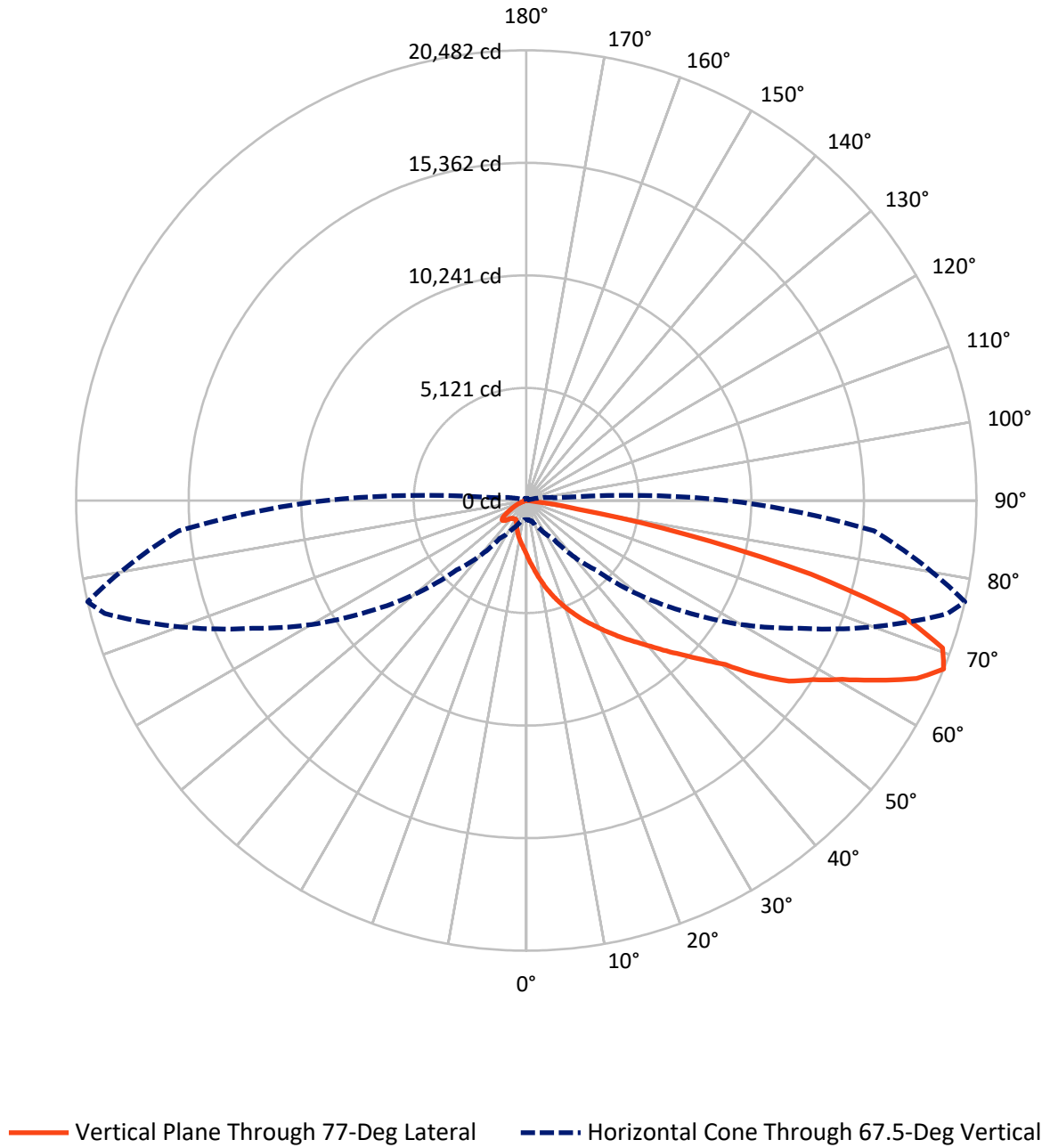
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	1571.8	0.0	1571.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	19792.2	0.0	19792.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	21364.0	0.0	21364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.4	1.2
10°-20°	880.5	4.1
20°-30°	1699.2	8.0
30°-40°	2949.9	13.8
40°-50°	4283.1	20.0
50°-60°	4918.6	23.0
60°-70°	4270.3	20.0
70°-80°	2011.4	9.4
80°-90°	99.5	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°	21364.0	100.0
0°-180°	21364.0	100.0

Coefficient of Utilization



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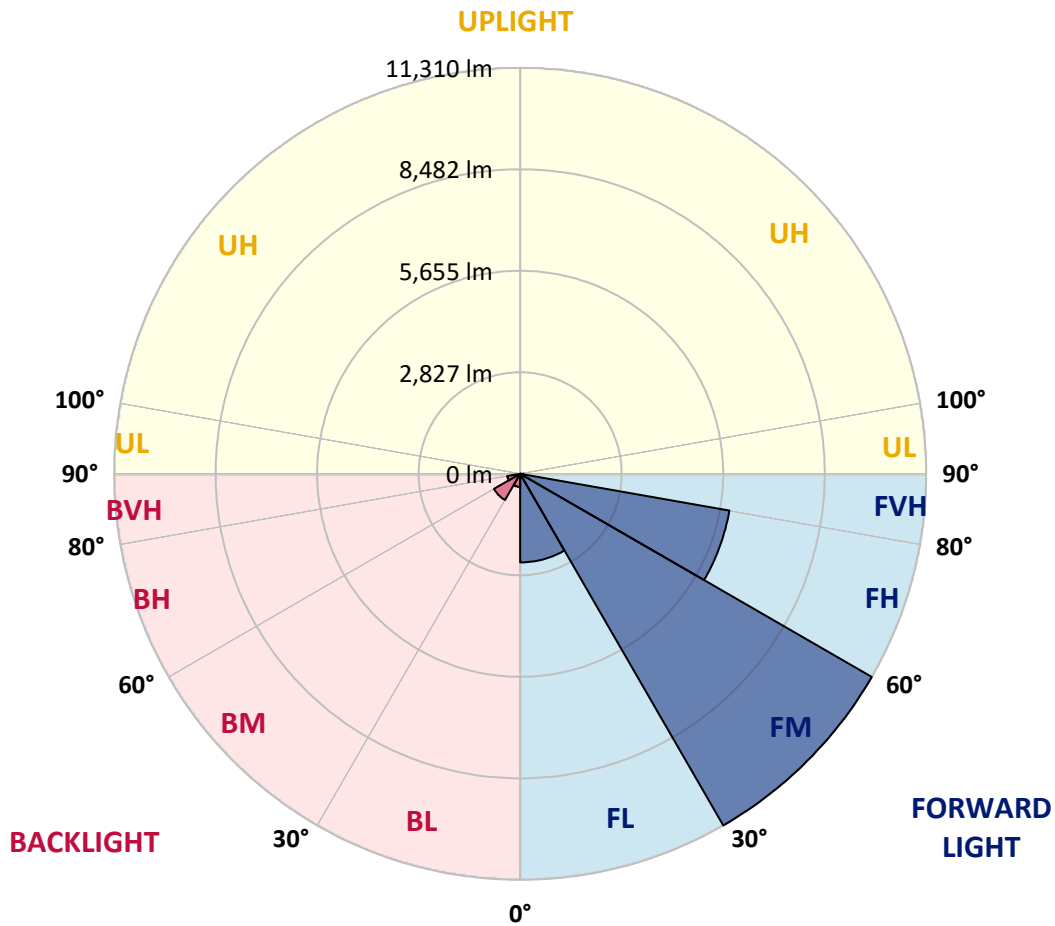
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2467.3	11.5			
FM (30°-60°)	11309.5	52.9			
FH (60°-80°)	5917.8	27.7			G3/7500
FVH (80°-90°)	97.6	0.5			G1/100
BL (0°-30°)	363.9	1.7	B1/500		
BM (30°-60°)	842.2	3.9	B1/1000		
BH (60°-80°)	363.9	1.7	B1/500		G1/500
BVH (80°-90°)	1.8	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6
2.5°	3410.8	3432.0	3401.5	3343.2	3255.6	3198.5	3059.2	2927.9	2782.0	2735.5
5°	4157.7	4176.3	4141.8	4078.1	3961.4	3849.9	3666.9	3392.2	3107.0	3015.5
7.5°	4710.9	4721.5	4708.3	4649.9	4538.5	4412.4	4208.1	3883.1	3459.9	3359.1
10°	5108.9	5143.4	5139.4	5116.9	5042.6	4940.4	4722.9	4352.7	3855.2	3725.2
12.5°	5372.9	5411.4	5433.9	5484.4	5480.4	5415.4	5224.3	4833.0	4249.2	4096.7
15°	5449.9	5491.0	5577.2	5694.0	5797.4	5830.6	5696.6	5303.9	4683.1	4488.0
17.5°	5406.1	5469.8	5573.2	5757.6	5984.5	6134.4	6119.8	5759.0	5077.1	4854.2
20°	5502.9	5564.0	5644.9	5800.1	6064.1	6336.1	6444.9	6194.1	5468.4	5234.9
22.5°	6038.9	6028.3	6036.2	6061.4	6219.3	6488.6	6712.8	6589.5	5855.8	5617.0
25°	6888.0	6840.2	6759.3	6622.6	6582.8	6712.8	6946.3	6939.7	6264.4	6008.4
27.5°	7861.7	7853.7	7664.0	7335.0	7149.3	7098.9	7210.3	7280.6	6669.1	6395.8
30°	8794.3	8815.6	8559.5	8193.4	7852.4	7654.8	7553.9	7604.3	7080.3	6813.7
32.5°	9606.2	9628.8	9350.2	8921.7	8499.8	8261.0	8048.8	7924.1	7528.7	7238.2
35°	10292.1	10314.7	9995.0	9521.3	9071.6	8855.4	8615.2	8274.3	7979.8	7709.1
37.5°	10905.0	10898.4	10469.9	9992.3	9550.5	9379.4	9253.4	8705.5	8444.1	8182.8
40°	11267.2	11295.1	10928.9	10402.2	9973.7	9849.0	9841.1	9240.1	8980.1	8726.7
42.5°	11373.3	11422.4	11157.1	10724.6	10335.9	10200.6	10408.9	9818.5	9603.6	9356.8
45°	11182.3	11230.1	11109.3	10809.5	10582.7	10495.1	10897.1	10418.2	10269.6	10025.5
47.5°	10625.1	10684.8	10714.0	10650.3	10647.7	10736.6	11334.9	11049.6	11060.3	10810.8
50°	9546.6	9647.4	9915.4	10140.9	10489.8	10927.6	11760.7	11734.2	11951.8	11736.8
52.5°	7585.8	7729.0	8652.4	9269.3	10053.3	10891.8	12229.0	12832.7	13515.9	13201.5
55°	6095.9	6095.9	6846.8	8001.0	9201.6	10655.6	12433.3	13546.4	14581.2	14506.9
57.5°	4969.6	5029.3	5508.2	6528.4	7969.2	10093.1	12559.4	13994.8	15439.5	15385.1
60°	3067.2	3195.9	4100.7	5107.6	6566.9	9091.5	12479.8	14448.5	16480.9	16524.7
62.5°	1727.3	1775.1	2178.4	3674.8	5106.3	7745.0	11870.8	14701.9	17812.9	17998.6
65°	1192.7	1216.5	1371.8	2287.1	3539.5	6166.3	10680.8	14544.0	19147.5	19522.9
67.5°	866.3	878.2	975.1	1397.0	2100.1	4470.8	8815.6	13748.0	19854.6	20482.1
70°	666.0	673.9	744.2	918.0	1240.4	2759.4	6402.4	12165.4	19342.5	20092.1
72.5°	541.3	549.2	603.6	679.2	822.5	1631.8	3880.4	9879.5	17081.9	17891.2
75°	456.4	467.0	516.1	565.2	644.8	1048.1	1820.2	6880.0	12845.9	13376.6
77.5°	253.4	233.5	419.2	468.3	543.9	663.3	851.7	4048.9	7194.4	7341.7
80°	157.9	163.2	333.0	376.8	417.9	334.3	390.0	1558.8	2494.1	2369.4
82.5°	9.3	21.2	256.0	272.0	286.6	143.3	147.3	529.3	601.0	551.9
85°	0.0	0.0	116.7	94.2	99.5	41.1	42.5	123.4	80.9	87.6
87.5°	0.0	0.0	0.0	2.7	0.0	4.0	8.0	10.6	4.0	5.3
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°
2463.6	0°	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6
2589.6	2.5°	2496.7	2403.9	2215.5	2031.1	1881.2	1741.9	1642.4	1548.2	1500.4	1497.8
2756.8	5°	2572.4	2377.4	2000.6	1667.6	1399.6	1184.7	1045.4	945.9	895.5	878.2
2962.4	7.5°	2678.5	2385.3	1812.2	1349.2	1033.5	849.1	769.5	737.6	727.0	715.1
3194.6	10°	2812.5	2403.9	1643.7	1086.5	814.6	721.7	689.9	676.6	668.6	660.7
3455.9	12.5°	2962.4	2421.1	1476.6	902.1	716.4	668.6	646.1	630.2	619.5	610.3
3723.9	15°	3108.3	2431.7	1302.8	773.4	666.0	627.5	603.6	586.4	571.8	561.2
3986.6	17.5°	3252.9	2446.3	1139.6	696.5	624.9	586.4	562.5	541.3	529.3	517.4
4262.5	20°	3413.5	2443.7	985.7	642.1	583.7	545.3	520.0	500.1	488.2	474.9
4554.4	22.5°	3562.0	2430.4	850.4	595.7	541.3	504.1	476.3	456.4	444.4	433.8
4852.9	25°	3733.2	2419.8	737.6	553.2	501.5	464.3	433.8	415.2	402.0	392.7
5152.7	27.5°	3897.7	2403.9	655.4	514.7	463.0	427.2	398.0	376.8	364.8	358.2
5461.8	30°	4059.5	2399.9	624.9	477.6	428.5	392.7	363.5	343.6	334.3	331.7
5801.4	32.5°	4254.6	2410.5	638.1	464.3	396.7	360.8	333.0	318.4	309.1	309.1
6179.5	35°	4462.8	2407.9	658.0	476.3	375.4	329.0	307.8	298.5	289.2	289.2
6598.7	37.5°	4724.2	2411.8	673.9	496.2	367.5	302.5	290.5	278.6	273.3	273.3
7057.8	40°	5114.2	2543.2	666.0	513.4	364.8	283.9	260.0	256.0	252.1	252.1
7576.5	42.5°	5591.8	2828.4	676.6	514.7	363.5	270.6	238.8	246.8	237.5	236.1
8161.5	45°	6114.5	3140.2	744.2	486.9	362.2	264.0	228.2	237.5	222.9	222.9
8839.4	47.5°	6633.2	3449.3	813.2	447.1	358.2	262.7	218.9	213.6	209.6	210.9
9723.0	50°	7348.3	3701.3	839.8	392.7	348.9	260.0	201.7	203.0	200.3	203.0
10968.7	52.5°	8127.0	3754.4	807.9	331.7	322.4	252.1	189.7	195.0	193.7	196.3
11845.6	55°	8612.6	3697.4	667.3	275.9	281.2	220.2	177.8	188.4	188.4	188.4
12702.6	57.5°	9114.1	3454.6	473.6	224.2	233.5	180.4	167.2	181.8	180.4	179.1
13734.8	60°	9474.9	3061.9	311.8	184.4	185.7	148.6	155.2	171.1	169.8	163.2
14798.7	62.5°	9744.2	2628.1	200.3	156.5	142.0	134.0	142.0	155.2	149.9	135.3
15700.9	65°	9713.7	2027.1	153.9	134.0	116.7	116.7	123.4	135.3	119.4	95.5
15873.3	67.5°	9147.2	1371.8	127.4	112.8	98.2	96.8	102.2	112.8	102.2	80.9
14989.8	70°	8135.0	896.8	102.2	87.6	78.3	71.6	82.3	96.8	86.2	65.0
12761.0	72.5°	6602.7	546.6	76.9	63.7	57.0	46.4	65.0	79.6	69.0	47.8
8873.9	75°	4271.8	278.6	53.1	41.1	30.5	27.9	47.8	59.7	47.8	29.2
3937.5	77.5°	1634.4	116.7	29.2	18.6	15.9	13.3	26.5	35.8	19.9	6.6
762.8	80°	314.4	49.1	14.6	9.3	8.0	5.3	4.0	2.7	0.0	0.0
135.3	82.5°	54.4	15.9	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
26.5	85°	18.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.3	87.5°	6.6	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

<u>180°</u>
2463.6
1495.1
875.6
712.4
658.0
607.6
559.8
516.1
473.6
432.5
391.4
358.2
330.3
309.1
289.2
273.3
252.1
234.8
222.9
210.9
203.0
196.3
188.4
179.1
163.2
132.7
92.9
78.3
62.4
45.1
25.2
5.3
0.0
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