

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: P950807

Luminaire Tested: **GALN-SB5A-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950807
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-SB5A-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 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: 11678 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

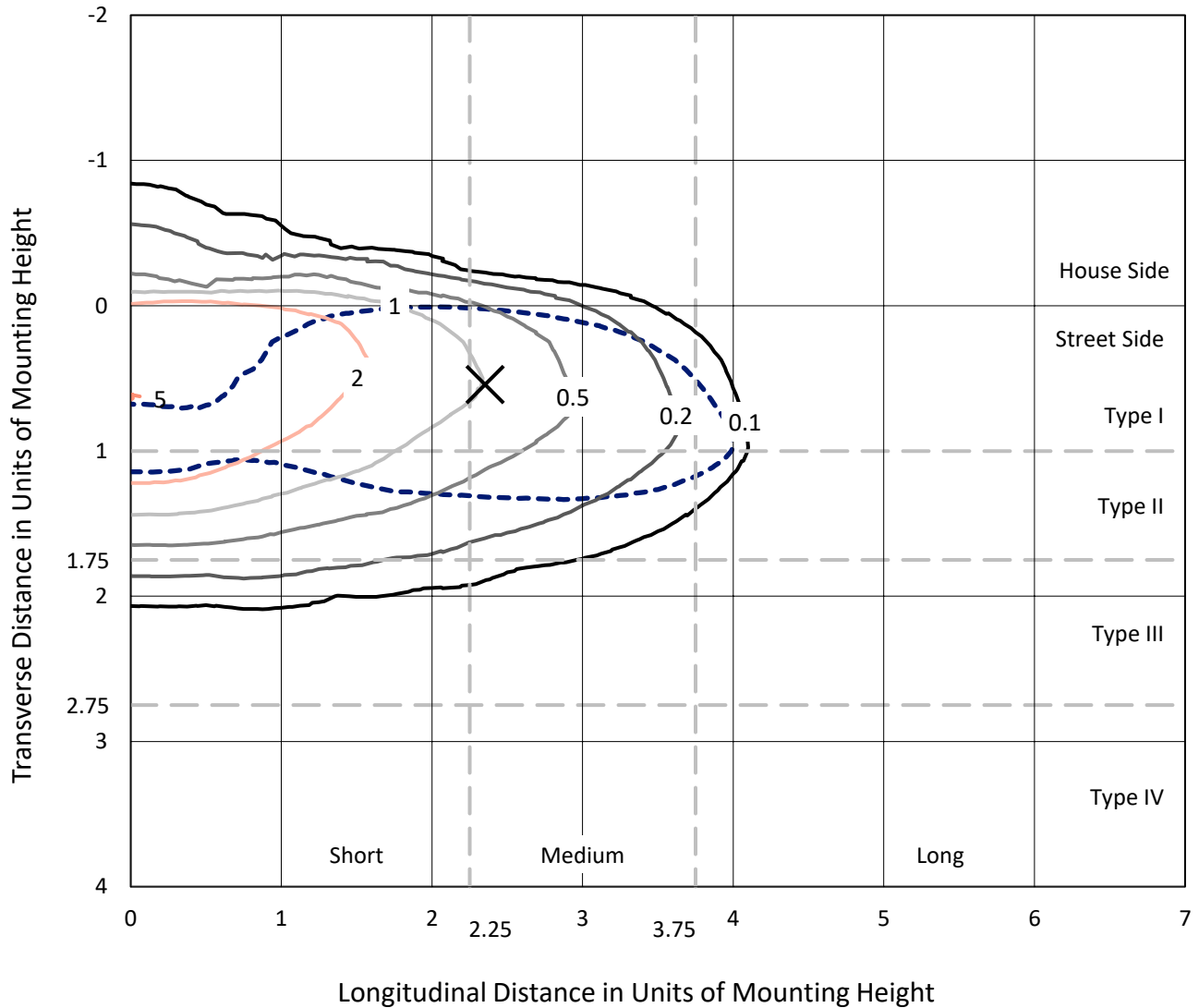
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

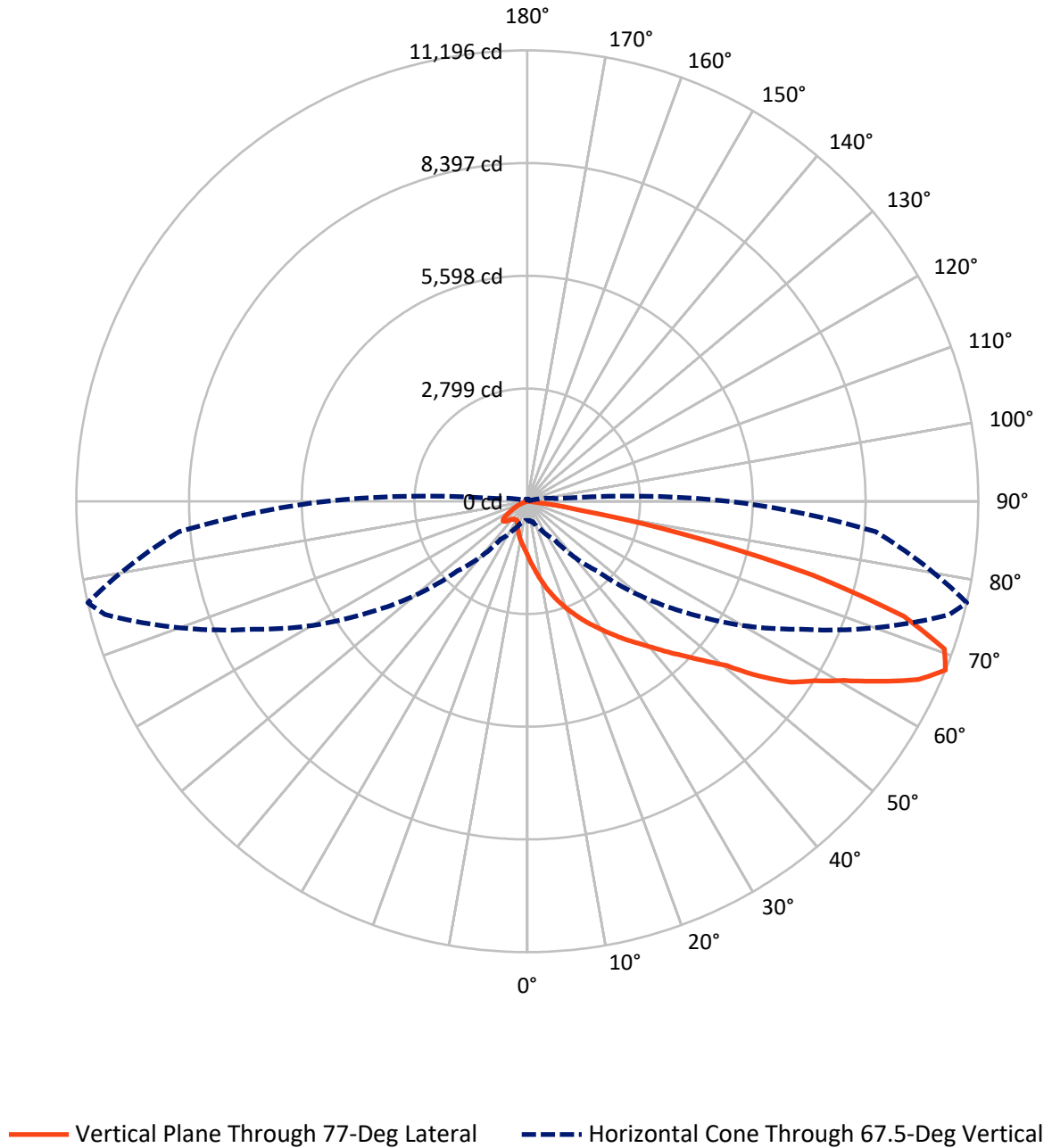
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	859.2	0.0	859.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	10818.8	0.0	10818.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	11678.0	0.0	11678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	1.2
10°-20°	481.3	4.1
20°-30°	928.8	8.0
30°-40°	1612.5	13.8
40°-50°	2341.2	20.0
50°-60°	2688.6	23.0
60°-70°	2334.2	20.0
70°-80°	1099.4	9.4
80°-90°	54.4	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°	11678.0	100.0
0°-180°	11678.0	100.0

Coefficient of Utilization



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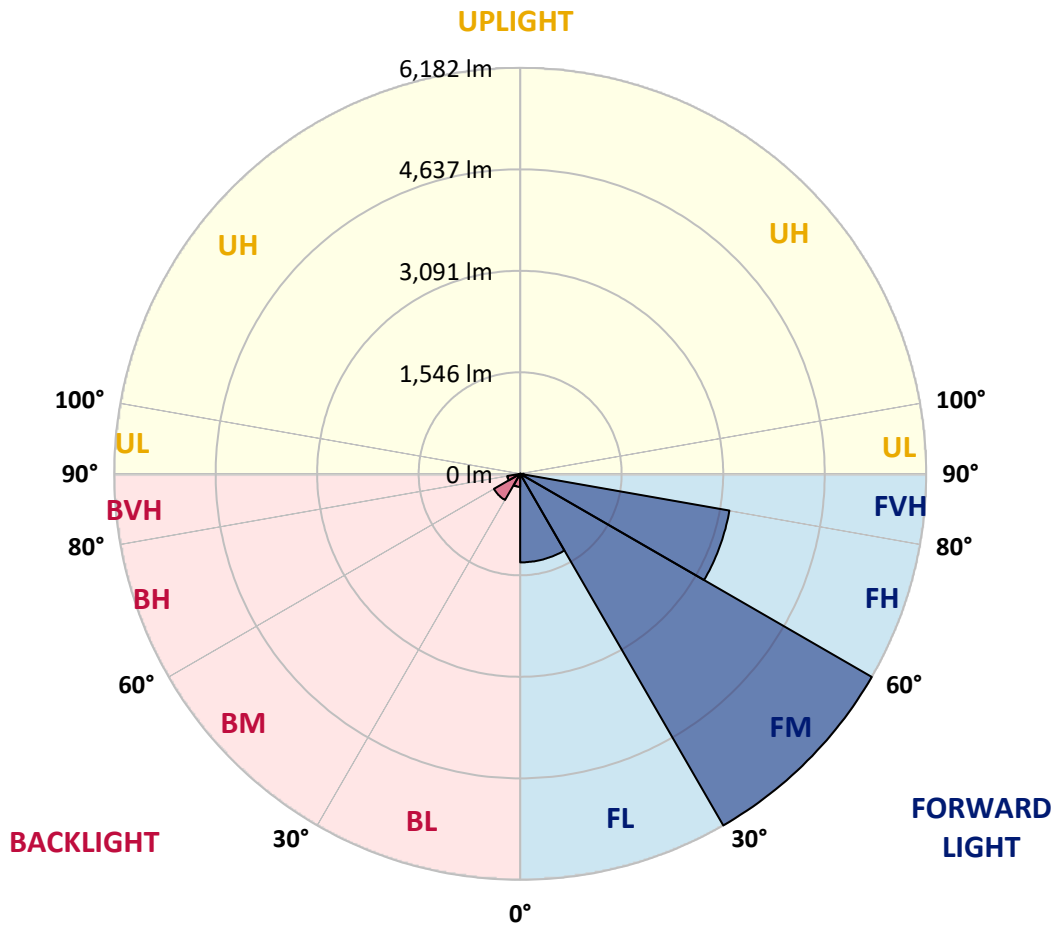
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.7	11.5			
FM (30°-60°)	6182.0	52.9			
FH (60°-80°)	3234.8	27.7			G2/5000
FVH (80°-90°)	53.4	0.5			G1/100
BL (0°-30°)	198.9	1.7	B1/500		
BM (30°-60°)	460.3	3.9	B1/1000		
BH (60°-80°)	198.9	1.7	B1/500		G1/500
BVH (80°-90°)	1.0	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°	1346.6	1346.6	1346.6	1346.6	1346.6	1346.6	1346.6	1346.6	1346.6	1346.6
2.5°	1864.4	1876.0	1859.3	1827.4	1779.6	1748.4	1672.2	1600.5	1520.7	1495.3
5°	2272.7	2282.8	2264.0	2229.2	2165.4	2104.5	2004.4	1854.3	1698.4	1648.3
7.5°	2575.1	2580.9	2573.6	2541.7	2480.8	2411.9	2300.2	2122.6	1891.2	1836.1
10°	2792.6	2811.5	2809.3	2797.0	2756.4	2700.5	2581.6	2379.3	2107.4	2036.3
12.5°	2936.9	2958.0	2970.3	2997.9	2995.7	2960.2	2855.7	2641.8	2322.7	2239.3
15°	2979.0	3001.5	3048.6	3112.4	3169.0	3187.1	3113.9	2899.2	2559.9	2453.3
17.5°	2955.1	2989.9	3046.4	3147.2	3271.3	3353.2	3345.2	3148.0	2775.2	2653.4
20°	3008.0	3041.4	3085.6	3170.5	3314.8	3463.4	3522.9	3385.8	2989.2	2861.5
22.5°	3301.0	3295.2	3299.5	3313.3	3399.6	3546.8	3669.4	3601.9	3200.9	3070.4
25°	3765.1	3739.0	3694.8	3620.1	3598.3	3669.4	3797.0	3793.4	3424.3	3284.3
27.5°	4297.4	4293.0	4189.3	4009.5	3908.0	3880.4	3941.3	3979.7	3645.4	3496.1
30°	4807.2	4818.8	4678.8	4478.7	4292.3	4184.2	4129.1	4156.7	3870.2	3724.5
32.5°	5251.0	5263.3	5111.0	4876.8	4646.2	4515.6	4399.6	4331.5	4115.4	3956.5
35°	5625.9	5638.2	5463.4	5204.6	4958.7	4840.5	4709.3	4522.9	4361.9	4214.0
37.5°	5960.9	5957.3	5723.1	5462.0	5220.5	5127.0	5058.1	4758.6	4615.7	4472.9
40°	6158.9	6174.1	5974.0	5686.1	5451.8	5383.7	5379.3	5050.8	4908.7	4770.2
42.5°	6216.9	6243.7	6098.7	5862.3	5649.8	5575.9	5689.7	5367.0	5249.5	5114.6
45°	6112.5	6138.6	6072.6	5908.7	5784.7	5736.8	5956.6	5694.8	5613.6	5480.1
47.5°	5807.9	5840.5	5856.5	5821.7	5820.2	5868.8	6195.9	6040.0	6045.8	5909.4
50°	5218.3	5273.5	5419.9	5543.2	5733.9	5973.2	6428.7	6414.1	6533.1	6415.6
52.5°	4146.5	4224.9	4729.6	5066.8	5495.4	5953.7	6684.6	7014.6	7388.1	7216.2
55°	3332.2	3332.2	3742.6	4373.5	5029.8	5824.6	6796.3	7404.7	7970.4	7929.8
57.5°	2716.5	2749.1	3010.9	3568.6	4356.1	5517.1	6865.2	7649.8	8439.6	8409.8
60°	1676.6	1746.9	2241.5	2791.9	3589.6	4969.6	6821.7	7897.9	9008.8	9032.7
62.5°	944.2	970.3	1190.7	2008.7	2791.2	4233.6	6488.8	8036.4	9736.9	9838.4
65°	651.9	665.0	749.8	1250.2	1934.8	3370.6	5838.4	7950.1	10466.4	10671.6
67.5°	473.5	480.1	533.0	763.6	1147.9	2443.8	4818.8	7515.0	10852.9	11195.9
70°	364.0	368.4	406.8	501.8	678.0	1508.4	3499.7	6649.8	10573.0	10982.7
72.5°	295.9	300.2	330.0	371.3	449.6	892.0	2121.1	5400.4	9337.3	9779.7
75°	249.5	255.3	282.1	308.9	352.4	572.9	994.9	3760.7	7021.8	7311.9
77.5°	138.5	127.6	229.2	256.0	297.3	362.6	465.6	2213.2	3932.6	4013.1
80°	86.3	89.2	182.0	205.9	228.4	182.7	213.2	852.1	1363.3	1295.2
82.5°	5.1	11.6	140.0	148.7	156.6	78.3	80.5	289.3	328.5	301.7
85°	0.0	0.0	63.8	51.5	54.4	22.5	23.2	67.4	44.2	47.9
87.5°	0.0	0.0	0.0	1.5	0.0	2.2	4.4	5.8	2.2	2.9
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°
1346.6	0°	1346.6	1346.6	1346.6	1346.6	1346.6	1346.6	1346.6	1346.6	1346.6	1346.6
1415.5	2.5°	1364.8	1314.0	1211.0	1110.2	1028.3	952.2	897.8	846.3	820.2	818.7
1506.9	5°	1406.1	1299.5	1093.6	911.5	765.1	647.6	571.4	517.0	489.5	480.1
1619.3	7.5°	1464.1	1303.9	990.6	737.5	564.9	464.1	420.6	403.2	397.4	390.9
1746.2	10°	1537.4	1314.0	898.5	593.9	445.3	394.5	377.1	369.8	365.5	361.1
1889.1	12.5°	1619.3	1323.4	807.1	493.1	391.6	365.5	353.2	344.5	338.7	333.6
2035.6	15°	1699.1	1329.2	712.1	422.8	364.0	343.0	330.0	320.5	312.5	306.7
2179.1	17.5°	1778.1	1337.2	622.9	380.7	341.6	320.5	307.5	295.9	289.3	282.8
2330.0	20°	1865.9	1335.8	538.8	351.0	319.1	298.0	284.3	273.4	266.9	259.6
2489.5	22.5°	1947.1	1328.5	464.8	325.6	295.9	275.6	260.3	249.5	242.9	237.1
2652.7	25°	2040.6	1322.7	403.2	302.4	274.1	253.8	237.1	227.0	219.7	214.7
2816.6	27.5°	2130.6	1314.0	358.2	281.4	253.1	233.5	217.6	205.9	199.4	195.8
2985.5	30°	2219.0	1311.8	341.6	261.1	234.2	214.7	198.7	187.8	182.7	181.3
3171.2	32.5°	2325.6	1317.6	348.8	253.8	216.8	197.2	182.0	174.0	169.0	169.0
3377.9	35°	2439.5	1316.2	359.7	260.3	205.2	179.8	168.2	163.2	158.1	158.1
3607.0	37.5°	2582.3	1318.4	368.4	271.2	200.9	165.3	158.8	152.3	149.4	149.4
3857.9	40°	2795.5	1390.2	364.0	280.6	199.4	155.2	142.1	140.0	137.8	137.8
4141.5	42.5°	3056.6	1546.1	369.8	281.4	198.7	147.9	130.5	134.9	129.8	129.1
4461.3	45°	3342.3	1716.5	406.8	266.1	198.0	144.3	124.7	129.8	121.8	121.8
4831.8	47.5°	3625.9	1885.4	444.5	244.4	195.8	143.6	119.7	116.8	114.6	115.3
5314.8	50°	4016.7	2023.2	459.0	214.7	190.7	142.1	110.2	111.0	109.5	111.0
5995.7	52.5°	4442.4	2052.2	441.6	181.3	176.2	137.8	103.7	106.6	105.9	107.3
6475.1	55°	4707.8	2021.1	364.8	150.8	153.7	120.4	97.2	103.0	103.0	103.0
6943.5	57.5°	4981.9	1888.3	258.9	122.6	127.6	98.6	91.4	99.3	98.6	97.9
7507.7	60°	5179.2	1673.7	170.4	100.8	101.5	81.2	84.8	93.5	92.8	89.2
8089.3	62.5°	5326.4	1436.6	109.5	85.6	77.6	73.2	77.6	84.8	81.9	74.0
8582.4	65°	5309.7	1108.1	84.1	73.2	63.8	63.8	67.4	74.0	65.3	52.2
8676.7	67.5°	5000.1	749.8	69.6	61.6	53.7	52.9	55.8	61.6	55.8	44.2
8193.7	70°	4446.8	490.2	55.8	47.9	42.8	39.2	45.0	52.9	47.1	35.5
6975.4	72.5°	3609.2	298.8	42.1	34.8	31.2	25.4	35.5	43.5	37.7	26.1
4850.7	75°	2335.1	152.3	29.0	22.5	16.7	15.2	26.1	32.6	26.1	16.0
2152.3	77.5°	893.4	63.8	16.0	10.2	8.7	7.3	14.5	19.6	10.9	3.6
417.0	80°	171.9	26.8	8.0	5.1	4.4	2.9	2.2	1.5	0.0	0.0
74.0	82.5°	29.7	8.7	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
14.5	85°	10.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.1	87.5°	3.6	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

180°
1346.6
817.3
478.6
389.4
359.7
332.1
306.0
282.1
258.9
236.4
213.9
195.8
180.6
169.0
158.1
149.4
137.8
128.4
121.8
115.3
111.0
107.3
103.0
97.9
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