

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: P950790

Luminaire Tested: **GALN-SB5A-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18045 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

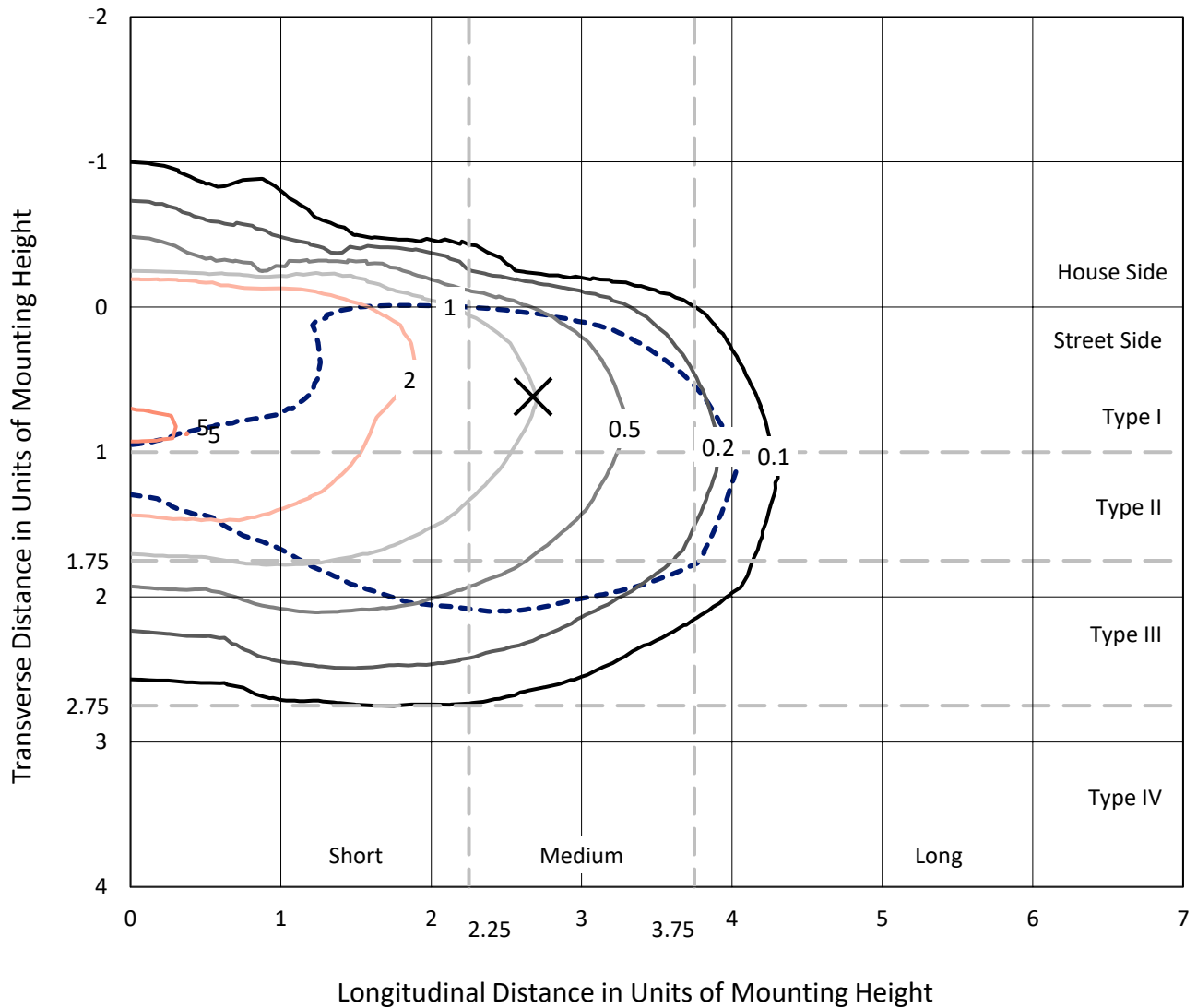
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

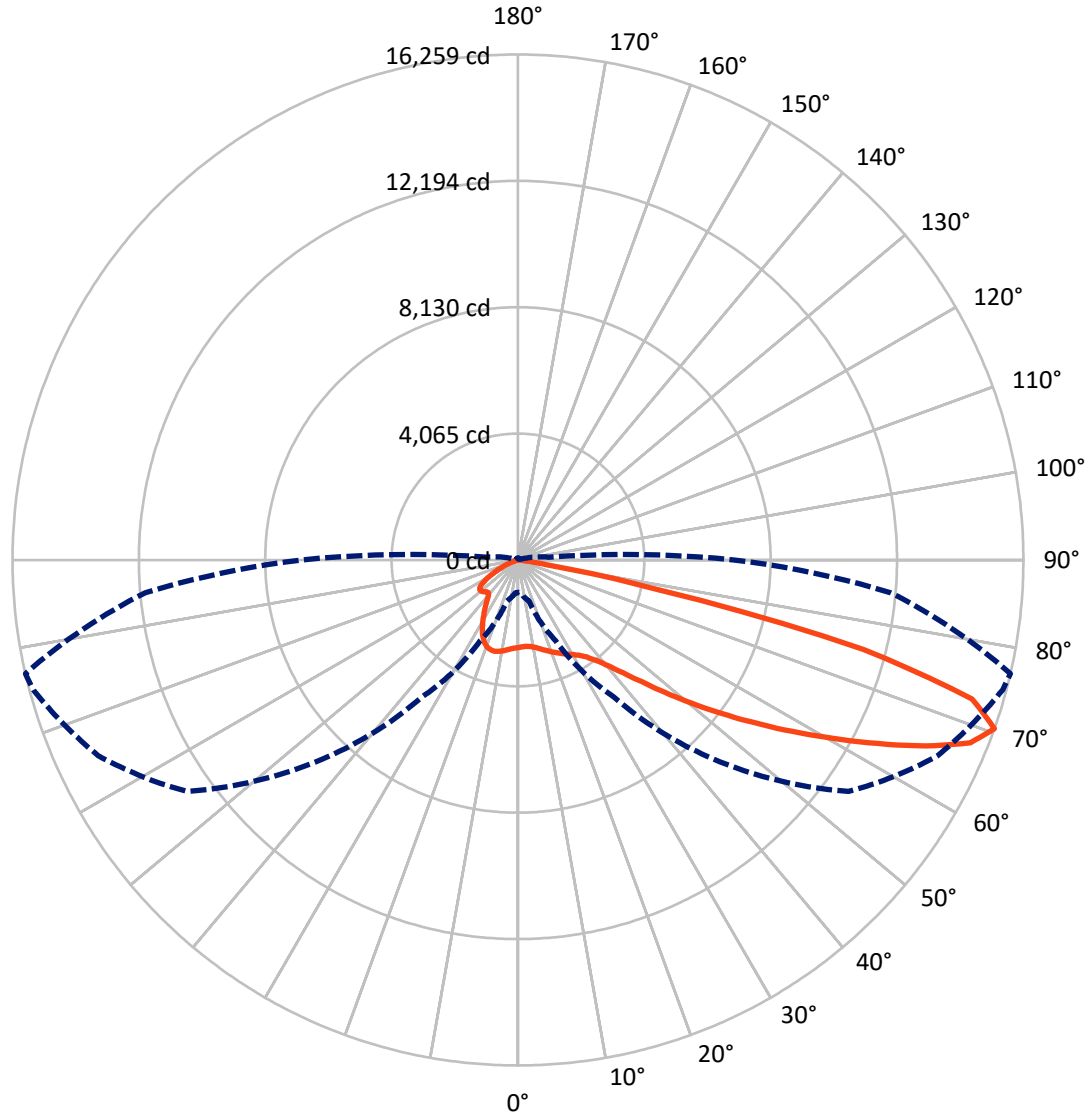
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1902.2	0.0	1902.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	16142.8	0.0	16142.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	18045.0	0.0	18045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.6	1.3
10°-20°	575.9	3.2
20°-30°	890.7	4.9
30°-40°	1616.2	9.0
40°-50°	3050.8	16.9
50°-60°	4408.2	24.4
60°-70°	4692.4	26.0
70°-80°	2486.6	13.8
80°-90°	81.6	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°	18045.0	100.0
0°-180°	18045.0	100.0

Coefficient of Utilization



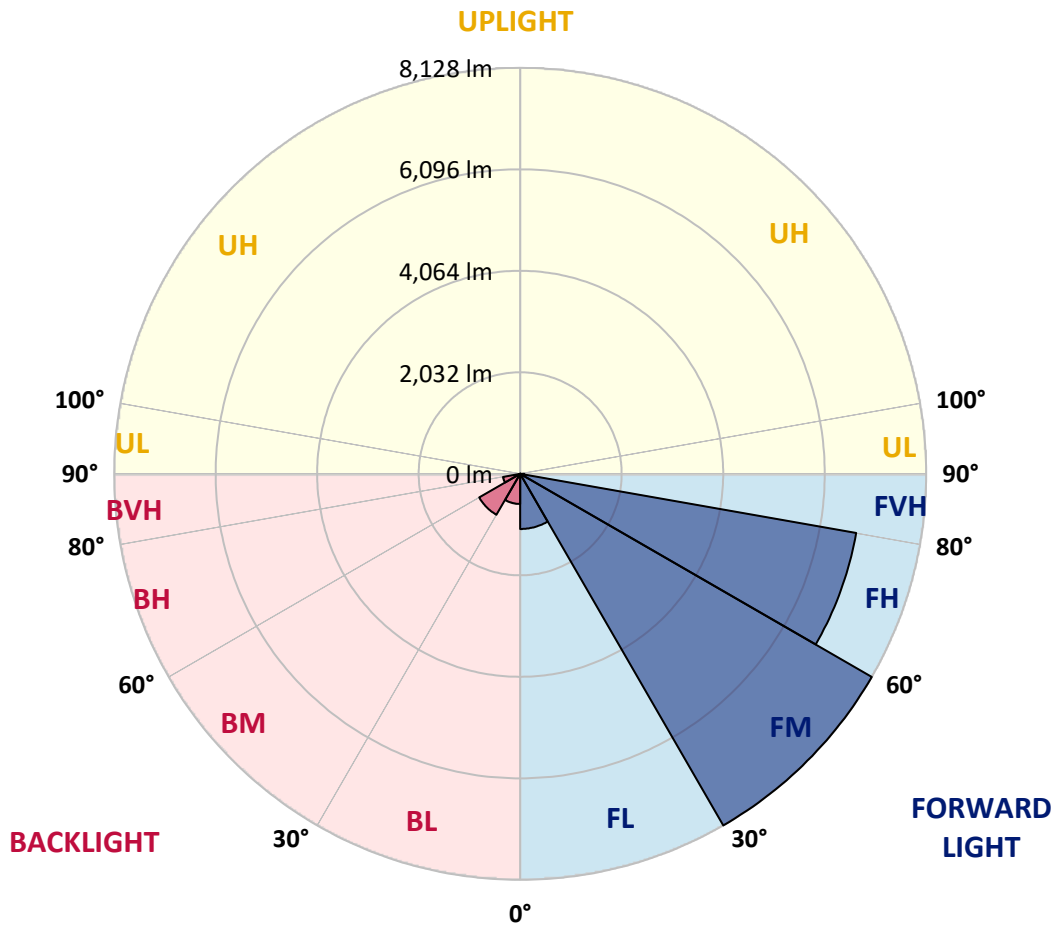
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1104.8	6.1			
FM (30°-60°)	8128.3	45.0			
FH (60°-80°)	6830.3	37.9			G3/7500
FVH (80°-90°)	79.5	0.4			G1/100
BL (0°-30°)	604.4	3.3	B2/1000		
BM (30°-60°)	946.9	5.2	B1/1000		
BH (60°-80°)	348.7	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7
2.5°	2642.6	2666.6	2663.1	2679.1	2684.8	2707.6	2730.4	2761.1	2795.3	2794.2
5°	2493.3	2517.3	2523.0	2544.6	2572.0	2607.3	2654.0	2715.6	2779.4	2789.6
7.5°	2316.7	2341.8	2356.6	2399.9	2450.0	2523.0	2599.3	2689.3	2795.3	2810.1
10°	2140.1	2162.9	2182.2	2243.8	2323.5	2431.8	2556.0	2685.9	2828.4	2850.0
12.5°	2030.7	2052.3	2074.0	2127.5	2226.7	2358.9	2527.5	2701.9	2883.1	2913.8
15°	1991.9	2011.3	2028.4	2076.3	2168.6	2319.0	2521.8	2734.9	2952.6	2993.6
17.5°	1997.6	2007.9	2019.3	2055.8	2145.8	2300.8	2532.1	2791.9	3034.6	3071.1
20°	2030.7	2036.4	2037.5	2062.6	2142.4	2298.5	2552.6	2846.6	3112.1	3161.1
22.5°	2072.8	2075.1	2072.8	2089.9	2164.0	2315.6	2579.9	2912.7	3198.7	3244.3
25°	2270.0	2226.7	2172.0	2138.9	2200.5	2348.6	2621.0	3001.6	3293.3	3337.7
27.5°	2881.9	2757.7	2561.7	2341.8	2275.7	2396.5	2677.9	3091.6	3389.0	3428.9
30°	3875.6	3712.7	3379.9	2884.2	2517.3	2496.8	2752.0	3181.6	3490.4	3533.8
32.5°	4871.6	4831.7	4447.7	3761.7	3060.8	2720.1	2875.1	3303.6	3624.9	3659.1
35°	5879.0	5798.0	5483.5	4805.5	3898.4	3174.8	3080.2	3463.1	3801.5	3840.3
37.5°	6650.4	6601.4	6406.6	5848.2	4892.1	3876.8	3431.2	3710.4	4057.9	4101.2
40°	7331.9	7309.1	7243.0	6874.9	6003.2	4795.2	3977.0	4093.3	4413.5	4464.8
42.5°	7867.5	7921.0	7958.6	7856.1	7148.4	5843.6	4710.9	4631.1	4909.2	4961.6
45°	8415.6	8433.8	8585.4	8733.5	8285.7	6939.9	5538.2	5261.3	5525.7	5590.6
47.5°	8767.7	8840.6	9107.3	9368.3	9241.8	8027.0	6427.1	6005.4	6240.2	6362.1
50°	8793.9	8931.8	9298.7	9753.4	9938.0	9061.7	7393.4	6853.3	7102.8	7237.3
52.5°	8357.5	8571.7	9140.3	9805.8	10314.1	9938.0	8392.8	7701.1	8021.3	8196.8
55°	6407.7	6688.0	8544.4	9521.0	10328.9	10602.4	9366.0	8584.2	9044.6	9242.9
57.5°	5582.7	5724.0	6717.7	9026.4	10054.3	10870.2	10245.7	9425.2	10158.0	10404.1
60°	4644.8	4830.6	5633.9	8217.3	9681.6	10896.4	11022.9	10510.1	11364.8	11641.7
62.5°	3156.6	3358.3	4157.1	6827.1	9172.3	10883.9	11659.9	11626.9	12706.0	13003.4
65°	1955.5	2082.0	2608.4	5574.7	8460.0	10897.5	12326.5	12982.9	14121.3	14423.3
67.5°	1545.2	1603.4	1878.0	4280.2	7232.7	10589.9	12992.0	14258.1	15453.5	15692.8
70°	1038.1	1073.5	1366.3	2869.4	5381.0	9170.0	12979.5	14898.5	16139.5	16259.1
72.5°	547.0	574.3	798.8	1328.7	3250.0	6518.2	10940.8	14132.7	15456.9	15276.8
75°	273.5	319.1	537.9	674.6	1388.0	3635.2	6794.0	11142.5	12165.9	11468.5
77.5°	207.4	250.7	444.4	444.4	483.2	1223.9	2877.4	6077.2	5605.5	4667.6
80°	132.2	170.9	388.6	336.2	201.7	311.1	749.8	1702.5	1190.8	905.9
82.5°	77.5	111.7	323.6	222.2	112.8	115.1	212.0	362.4	308.8	240.4
85°	30.8	72.9	222.2	87.7	44.4	28.5	63.8	77.5	63.8	47.9
87.5°	0.0	17.1	38.7	0.0	3.4	2.3	4.6	5.7	5.7	4.6
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°
2814.7	0°	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7	2814.7
2817.0	2.5°	2827.2	2829.5	2836.3	2837.5	2821.5	2801.0	2793.0	2789.6	2775.9	2774.8
2835.2	5°	2861.4	2871.7	2861.4	2831.8	2761.1	2662.0	2586.8	2525.2	2469.4	2452.3
2897.9	7.5°	2929.8	2940.0	2909.3	2793.0	2615.3	2418.1	2240.4	2115.0	2002.2	1960.0
2974.2	10°	3027.8	3041.5	2944.6	2709.9	2395.3	2078.5	1777.7	1565.7	1400.5	1333.3
3077.9	12.5°	3150.9	3156.6	2964.0	2583.4	2109.3	1656.9	1230.7	1003.9	856.9	802.2
3203.3	15°	3286.5	3278.5	2966.3	2411.3	1719.6	1171.5	803.4	659.8	600.5	582.3
3328.6	17.5°	3428.9	3395.9	2920.7	2162.9	1292.3	801.1	596.0	561.8	551.5	547.0
3452.8	20°	3569.1	3495.0	2837.5	1838.1	927.6	598.3	541.3	531.0	525.3	523.1
3578.2	22.5°	3696.7	3570.2	2695.0	1460.9	673.5	528.8	511.7	502.5	492.3	487.7
3700.1	25°	3820.9	3613.5	2494.5	1108.8	539.0	494.6	480.9	463.8	450.1	444.4
3831.2	27.5°	3941.7	3640.9	2243.8	820.5	480.9	462.7	437.6	413.7	403.4	401.1
3971.3	30°	4070.5	3650.0	1958.9	611.9	445.6	422.8	386.3	359.0	353.3	354.4
4160.5	32.5°	4227.7	3663.7	1671.7	501.4	415.9	374.9	331.6	303.1	298.6	303.1
4436.3	35°	4415.8	3691.0	1394.8	461.5	389.7	325.9	279.2	255.3	250.7	254.1
4789.5	37.5°	4671.0	3735.5	1136.1	453.5	368.1	284.9	234.7	215.4	215.4	216.5
5222.6	40°	5010.6	3854.0	904.8	447.8	356.7	254.1	198.3	190.3	193.7	196.0
5774.1	42.5°	5424.3	4105.8	748.7	441.0	344.1	240.4	180.0	176.6	182.3	184.6
6435.1	45°	5888.1	4424.9	694.0	429.6	332.7	249.6	172.1	167.5	174.4	175.5
7175.8	47.5°	6367.8	4737.1	687.2	417.1	321.4	263.2	169.8	159.5	167.5	168.7
7966.6	50°	6853.3	4941.1	694.0	397.7	303.1	263.2	170.9	151.6	158.4	161.8
8787.1	52.5°	7342.1	5034.5	689.4	355.5	271.2	247.3	170.9	144.7	151.6	153.8
9673.7	55°	7816.2	5016.3	619.9	292.9	230.2	218.8	166.4	139.0	143.6	144.7
10511.2	57.5°	8191.1	4762.2	491.1	227.9	186.9	182.3	151.6	132.2	135.6	134.5
11279.3	60°	8387.1	4203.8	351.0	175.5	147.0	143.6	133.3	123.1	125.4	119.7
11930.0	62.5°	8389.4	3465.4	234.7	139.0	117.4	114.0	114.0	110.5	108.3	96.9
12433.7	65°	8210.5	2646.0	156.1	110.5	94.6	88.9	95.7	94.6	86.6	70.7
12587.5	67.5°	7804.8	1734.4	118.5	86.6	72.9	69.5	76.4	79.8	74.1	59.3
12026.8	70°	6970.6	1009.6	98.0	67.2	54.7	51.3	61.5	68.4	61.5	47.9
10279.9	72.5°	5790.1	544.7	79.8	50.1	37.6	34.2	49.0	55.8	49.0	35.3
6595.7	75°	3757.1	291.7	61.5	33.0	19.4	21.7	36.5	41.0	34.2	22.8
1936.1	77.5°	1261.5	128.8	38.7	16.0	9.1	9.1	21.7	25.1	16.0	8.0
352.1	80°	281.5	53.6	16.0	6.8	3.4	3.4	4.6	4.6	2.3	0.0
108.3	82.5°	92.3	21.7	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
27.3	85°	35.3	8.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.1	87.5°	13.7	1.1	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°
2814.7
2777.1
2442.1
1942.9
1304.8
785.2
582.3
545.8
520.8
486.6
442.1
398.8
354.4
302.0
253.0
215.4
196.0
184.6
176.6
169.8
163.0
153.8
144.7
134.5
118.5
93.4
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