

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: P951061

Luminaire Tested: **GALN-SB5B-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18903 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

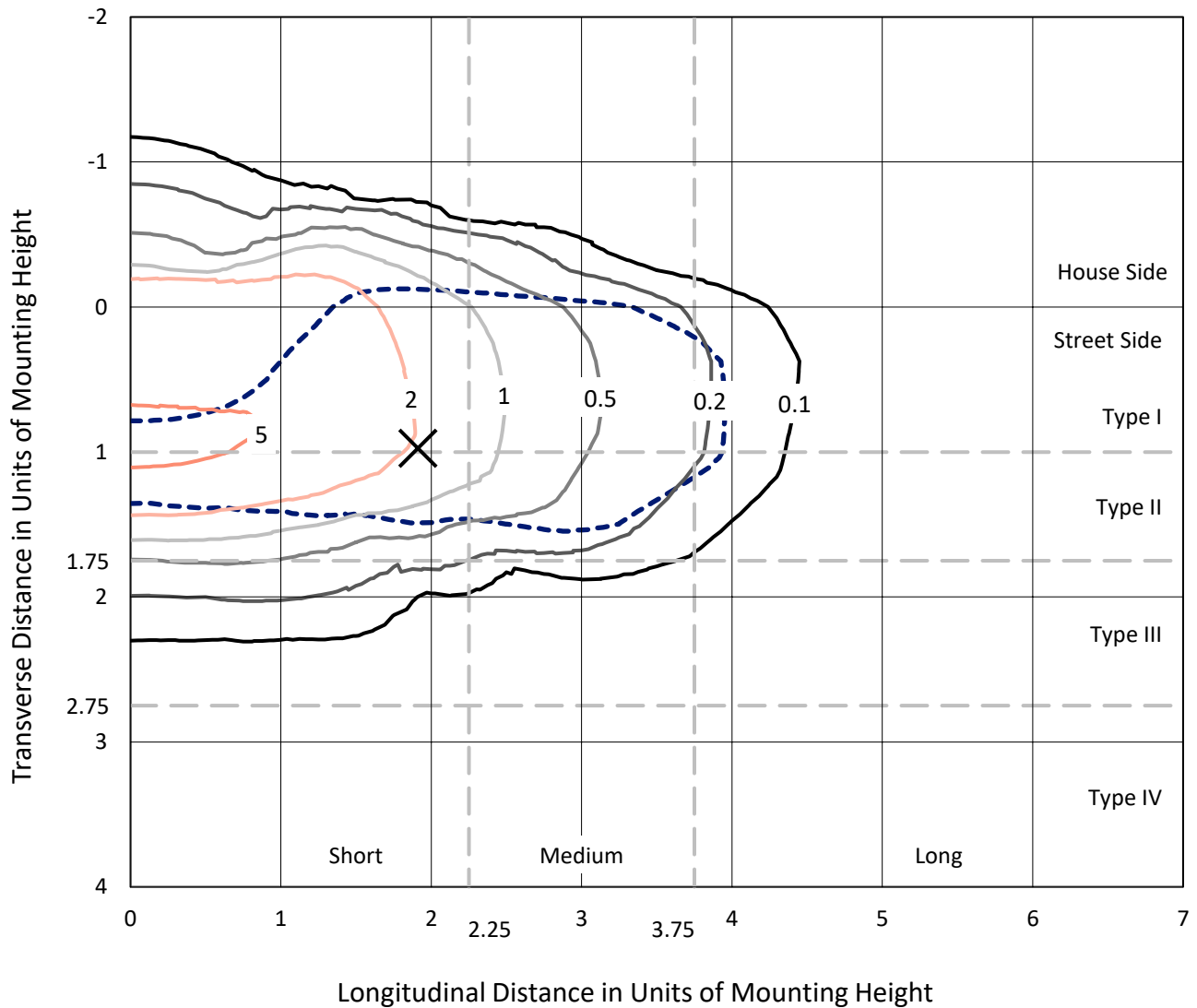
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

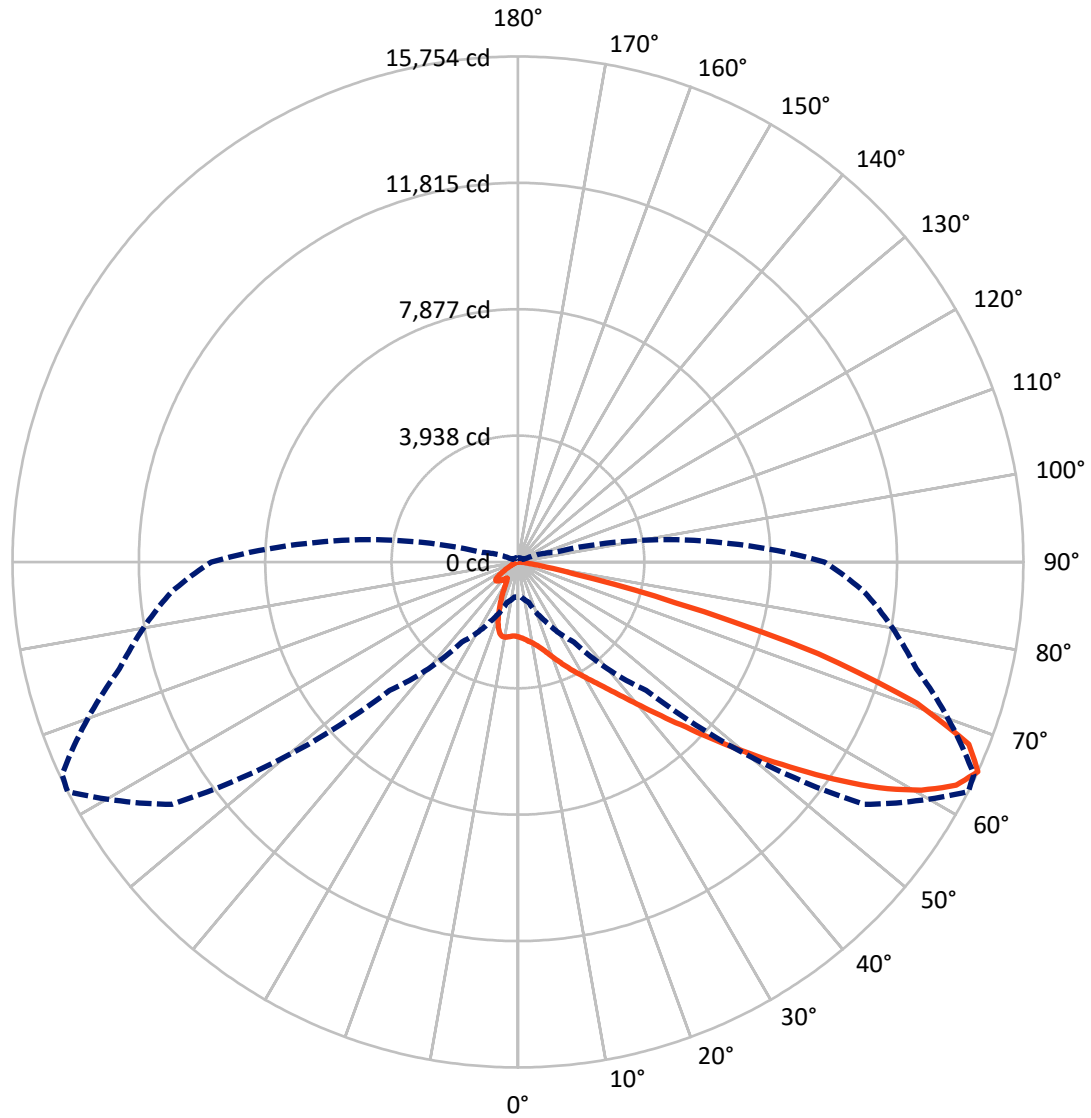
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2778.6	0.0	2778.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	16124.4	0.0	16124.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	18903.0	0.0	18903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	1.2
10°-20°	609.9	3.2
20°-30°	1062.0	5.6
30°-40°	1914.1	10.1
40°-50°	3796.3	20.1
50°-60°	5171.2	27.4
60°-70°	4127.6	21.8
70°-80°	1867.8	9.9
80°-90°	134.3	0.7
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°	18903.0	100.0
0°-180°	18903.0	100.0

Coefficient of Utilization



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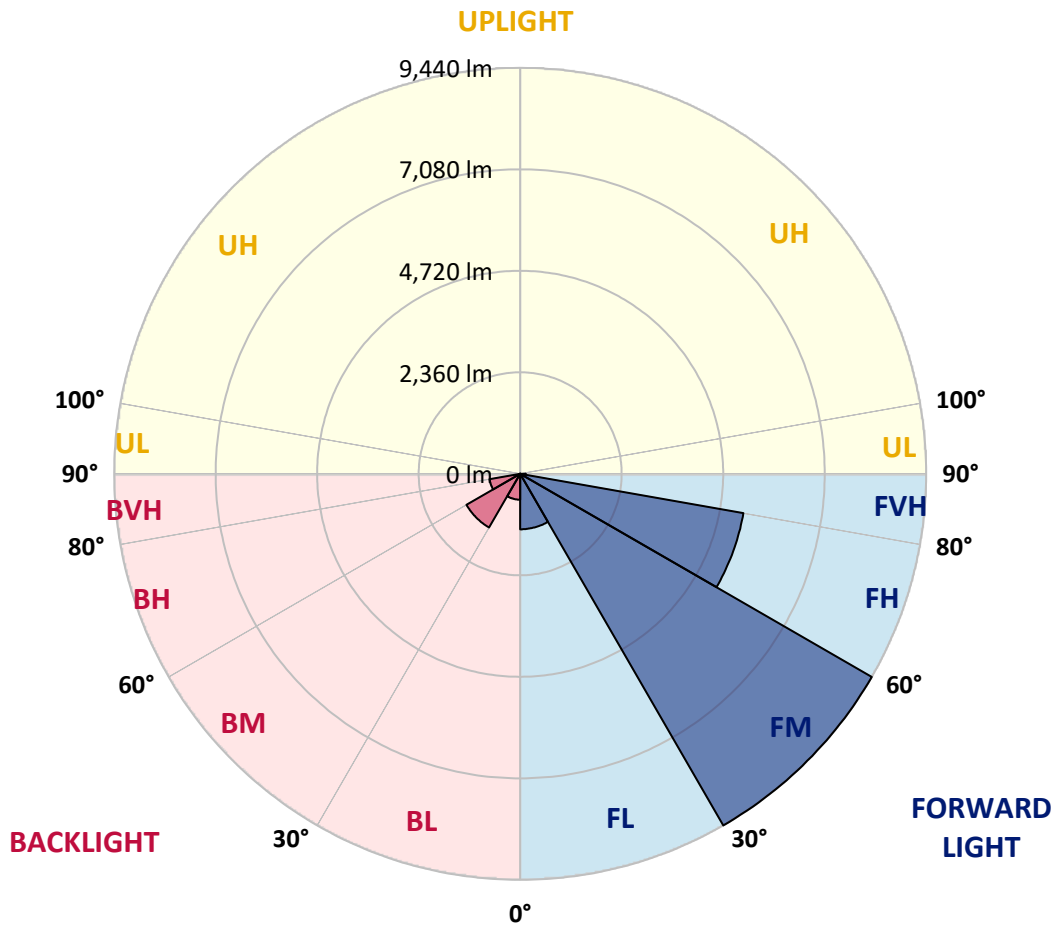
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1290.4	6.8			
FM (30°-60°)	9439.7	49.9			
FH (60°-80°)	5270.1	27.9			G3/7500
FVH (80°-90°)	124.3	0.7			G2/225
BL (0°-30°)	601.3	3.2	B2/1000		
BM (30°-60°)	1441.9	7.6	B2/2500		
BH (60°-80°)	725.4	3.8	B2/1000		G2/1000
BVH (80°-90°)	10.0	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0
2.5°	2387.6	2381.1	2390.2	2386.3	2383.7	2378.5	2375.9	2373.3	2368.1	2364.2
5°	2394.1	2390.2	2399.3	2407.1	2414.9	2422.7	2426.6	2431.8	2426.6	2416.2
7.5°	2339.5	2336.9	2356.4	2379.8	2414.9	2444.8	2477.3	2495.5	2496.8	2492.9
10°	2335.6	2329.1	2348.6	2377.2	2422.7	2476.0	2533.3	2572.3	2577.5	2594.4
12.5°	2396.7	2390.2	2417.5	2448.7	2495.5	2551.5	2621.7	2676.3	2684.1	2707.5
15°	2499.4	2490.3	2521.6	2561.9	2621.7	2685.4	2759.5	2808.9	2815.5	2844.1
17.5°	2619.1	2610.0	2646.4	2689.3	2754.3	2841.5	2927.3	2981.9	2989.7	3007.9
20°	2772.5	2760.8	2789.4	2828.5	2897.4	3001.4	3104.1	3182.2	3180.9	3180.9
22.5°	2950.7	2932.5	2957.2	2988.4	3053.4	3179.6	3316.1	3408.5	3408.5	3372.0
25°	3141.9	3123.7	3151.0	3179.6	3236.8	3379.8	3539.8	3654.2	3659.4	3597.0
27.5°	3381.1	3357.7	3378.5	3412.4	3446.2	3591.8	3781.7	3914.3	3916.9	3820.7
30°	3841.5	3775.2	3710.2	3673.7	3689.3	3833.7	4036.6	4183.5	4196.5	4063.9
32.5°	4684.2	4671.2	4442.3	4143.2	3987.1	4093.8	4321.4	4498.2	4506.0	4335.7
35°	5993.7	5978.1	5610.1	5040.5	4532.0	4442.3	4667.3	4876.6	4871.4	4679.0
37.5°	7556.9	7542.5	7057.5	6295.4	5472.2	4969.0	5113.3	5333.1	5365.6	5113.3
40°	8892.4	8839.1	8532.2	7797.4	6720.7	5842.9	5747.9	5893.6	5927.4	5628.3
42.5°	9904.1	9858.6	9702.6	9243.5	8231.8	7135.5	6495.7	6551.6	6589.3	6230.4
45°	10428.2	10417.8	10480.2	10437.3	9771.5	8722.0	7564.7	7331.9	7346.2	6897.5
47.5°	10502.3	10497.1	10781.9	11185.1	11095.3	10511.4	8936.6	8304.6	8253.9	7650.5
50°	10065.4	10055.0	10601.2	11356.7	11979.6	12014.8	10494.5	9400.9	9289.0	8429.4
52.5°	8670.0	8667.4	9564.7	10822.3	12290.4	13330.8	12034.3	10605.1	10417.8	9253.9
55°	6671.3	6719.4	7748.0	9234.4	11723.5	13964.1	13416.6	11941.9	11654.5	10083.6
57.5°	4725.8	4796.0	5813.0	7136.8	9965.3	13589.6	14351.6	13281.4	12971.9	10910.7
60°	2538.5	2600.9	3619.1	5199.2	7413.8	12192.9	14844.5	14444.0	14151.4	11696.1
62.5°	1512.4	1533.2	1954.6	3356.4	5014.5	9315.0	14635.1	15329.6	15089.0	12355.5
65°	1085.9	1089.8	1301.7	2049.5	3044.3	5659.5	13166.9	15753.5	15679.4	12852.2
67.5°	914.2	911.6	1000.0	1361.6	2074.2	2835.0	10091.4	15154.0	15468.7	13166.9
70°	784.2	788.1	892.1	997.4	1559.2	1604.7	5017.1	13194.3	13865.3	13250.2
72.5°	583.9	596.9	693.1	909.0	1176.9	1104.1	1732.2	9783.2	10996.5	12484.2
75°	412.2	418.7	487.7	764.7	877.8	803.7	884.3	5057.4	6612.7	9571.2
77.5°	317.3	329.0	369.3	534.5	864.8	564.4	541.0	1750.4	2689.3	5781.8
80°	171.7	192.5	266.6	386.2	607.3	399.2	267.9	697.0	911.6	2703.6
82.5°	88.4	98.8	186.0	278.3	345.9	348.5	132.6	290.0	375.8	834.9
85°	35.1	42.9	124.8	153.5	178.2	171.7	59.8	117.0	135.2	231.5
87.5°	7.8	13.0	45.5	35.1	33.8	36.4	14.3	27.3	26.0	27.3
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°
2333.0	0°	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0
2348.6	2.5°	2347.3	2342.1	2327.8	2312.2	2294.0	2283.6	2277.1	2275.8	2266.7	2260.2
2400.6	5°	2386.3	2381.1	2353.8	2321.3	2286.2	2258.9	2232.9	2209.4	2175.6	2169.1
2476.0	7.5°	2464.3	2450.0	2405.8	2361.6	2295.3	2215.9	2119.7	2009.2	1910.3	1880.4
2576.2	10°	2560.6	2541.1	2485.1	2407.1	2260.2	2044.3	1811.5	1595.6	1424.0	1375.9
2694.5	12.5°	2669.8	2652.9	2578.8	2434.4	2113.2	1721.8	1365.5	1097.6	931.1	889.5
2820.7	15°	2799.8	2775.1	2672.4	2392.8	1850.5	1308.2	937.6	779.0	719.1	711.3
2965.0	17.5°	2937.7	2897.4	2755.6	2243.3	1496.8	929.8	724.3	678.8	652.8	645.0
3110.6	20°	3063.8	3011.8	2805.0	2017.0	1118.4	724.3	648.9	619.0	595.6	586.5
3256.3	22.5°	3190.0	3115.9	2805.0	1708.8	838.8	642.4	595.6	568.3	541.0	529.3
3412.4	25°	3321.3	3222.5	2755.6	1365.5	674.9	589.1	544.9	515.0	491.6	477.3
3560.6	27.5°	3448.8	3312.2	2642.5	1040.4	600.8	542.3	498.1	469.5	447.4	436.9
3721.9	30°	3569.7	3400.6	2483.8	789.4	552.7	496.8	455.2	430.4	408.3	397.9
3931.2	32.5°	3733.6	3512.5	2314.8	647.6	511.1	453.9	416.1	392.7	373.2	365.4
4203.0	35°	3961.1	3677.6	2169.1	635.9	476.0	418.7	381.0	358.9	339.4	332.9
4554.1	37.5°	4283.6	3944.2	2092.4	713.9	447.4	387.5	352.4	329.0	310.8	305.6
5000.2	40°	4681.6	4305.8	2134.0	792.0	427.8	360.2	326.4	303.0	287.4	280.9
5512.6	42.5°	5153.6	4751.8	2364.2	851.8	414.8	336.8	301.7	275.7	265.3	262.7
6093.9	45°	5695.9	5242.1	2716.6	915.5	394.0	314.7	277.0	257.5	249.7	248.4
6725.9	47.5°	6312.3	5780.5	3125.0	994.8	373.2	293.9	257.5	244.5	238.0	235.4
7385.2	50°	6923.5	6322.7	3545.0	1039.1	356.3	274.4	241.9	231.5	226.3	225.0
8082.2	52.5°	7563.4	6880.6	3884.4	997.4	342.0	258.8	228.9	221.1	215.9	214.6
8724.6	55°	8173.3	7331.9	3942.9	846.6	313.4	243.2	214.6	210.7	204.2	204.2
9376.2	57.5°	8698.6	7558.2	3529.4	621.6	284.8	219.8	200.3	196.4	191.2	189.9
9964.0	60°	9181.1	7493.1	2724.4	418.7	253.6	196.4	182.1	179.5	174.3	167.8
10475.0	62.5°	9452.9	7207.0	1863.5	273.1	222.4	171.7	161.3	160.0	148.3	135.2
10853.5	65°	9555.6	6619.2	1162.6	199.0	186.0	146.9	139.1	136.5	119.6	105.3
11068.0	67.5°	9465.9	5651.7	586.5	157.4	146.9	122.2	114.4	114.4	102.7	89.7
11055.0	70°	9107.0	4236.8	247.1	126.1	113.1	93.6	93.6	98.8	87.1	72.8
10481.5	72.5°	8328.0	2850.6	131.3	96.2	84.5	66.3	76.7	80.6	68.9	54.6
8579.0	75°	6620.5	1738.7	91.0	71.5	53.3	46.8	58.5	61.1	46.8	36.4
5881.9	77.5°	4528.1	998.7	61.1	45.5	33.8	27.3	40.3	37.7	24.7	16.9
2268.0	80°	1988.4	416.1	35.1	20.8	13.0	10.4	14.3	10.4	7.8	5.2
310.8	82.5°	232.8	97.5	13.0	7.8	5.2	2.6	1.3	0.0	0.0	0.0
94.9	85°	48.1	11.7	6.5	2.6	1.3	0.0	0.0	0.0	0.0	0.0
16.9	87.5°	9.1	2.6	1.3	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°
2333.0
2266.7
2166.5
1866.1
1357.7
877.8
703.5
641.1
581.3
522.8
472.1
436.9
399.2
365.4
332.9
304.3
279.6
262.7
247.1
235.4
225.0
214.6
202.9
188.6
166.5
132.6
104.0
88.4
71.5
54.6
35.1
18.2
5.2
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