

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: P948940

Luminaire Tested: **GALN-SB3D-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948940
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-SB3D-830-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA 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: 20967 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

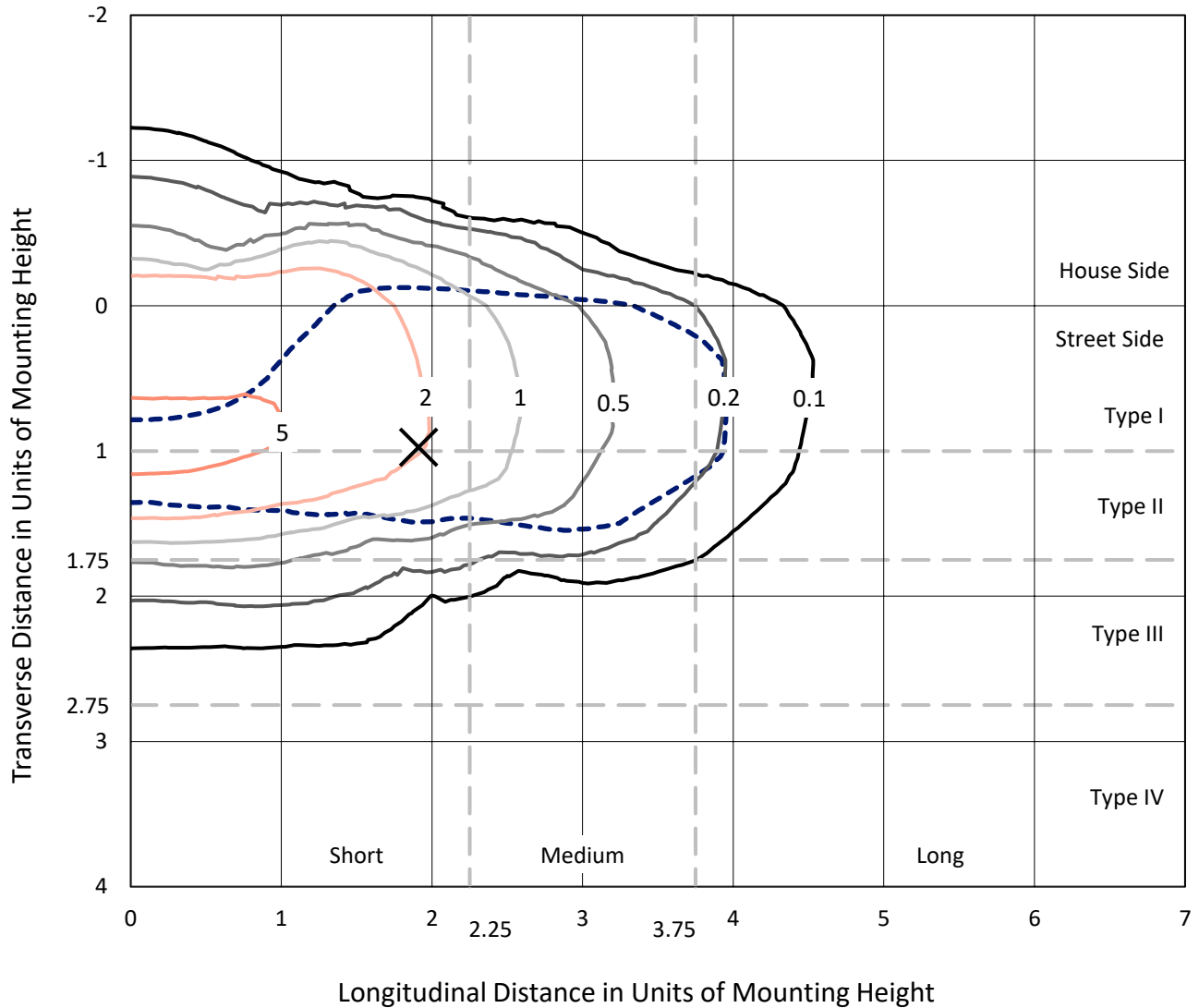
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

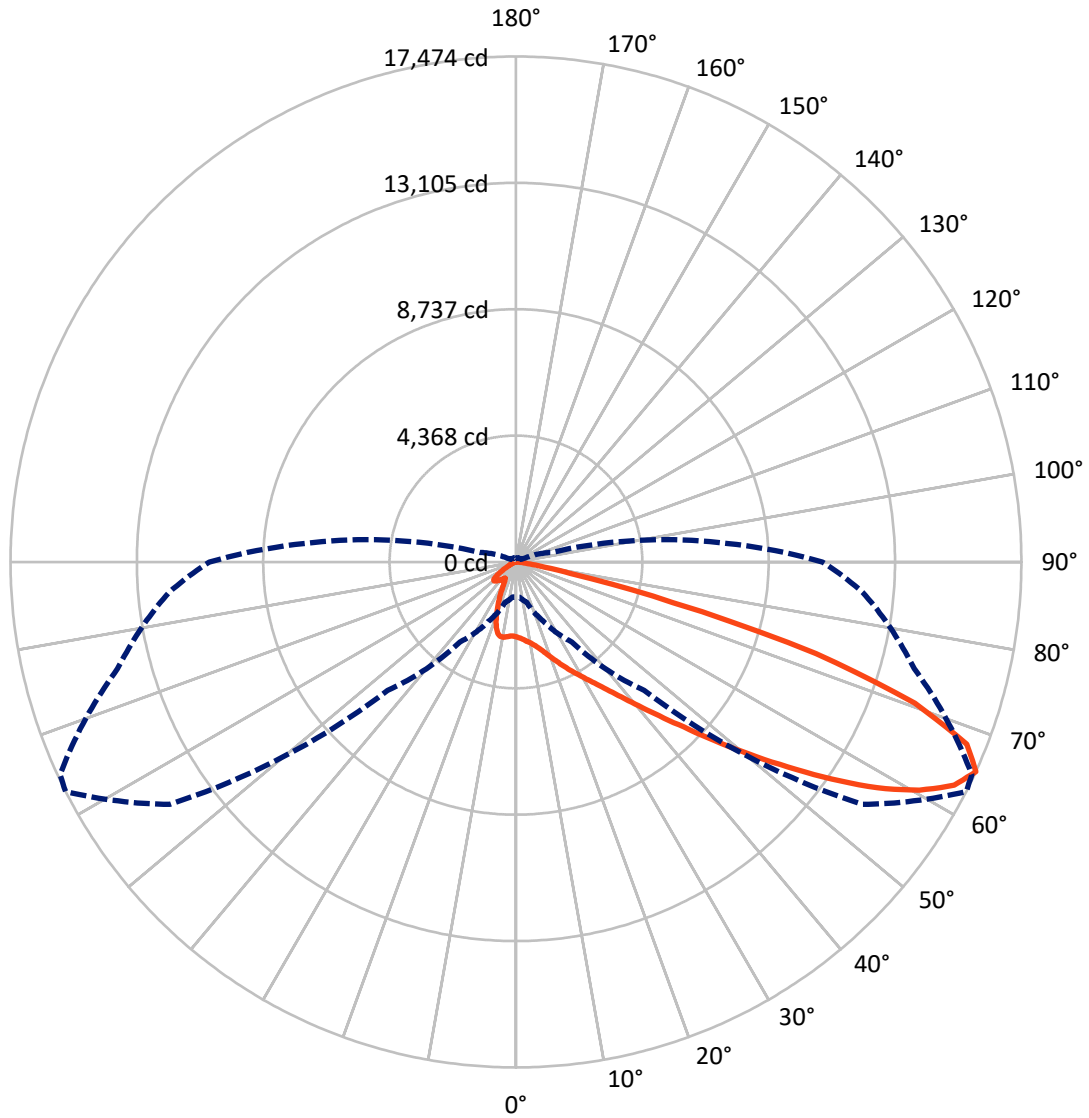
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	3082.0	0.0	3082.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	17885.0	0.0	17885.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	20967.0	0.0	20967.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.8	1.2
10°-20°	676.5	3.2
20°-30°	1177.9	5.6
30°-40°	2123.1	10.1
40°-50°	4210.8	20.1
50°-60°	5735.8	27.4
60°-70°	4578.3	21.8
70°-80°	2071.8	9.9
80°-90°	148.9	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°	20967.0	100.0
0°-180°	20967.0	100.0



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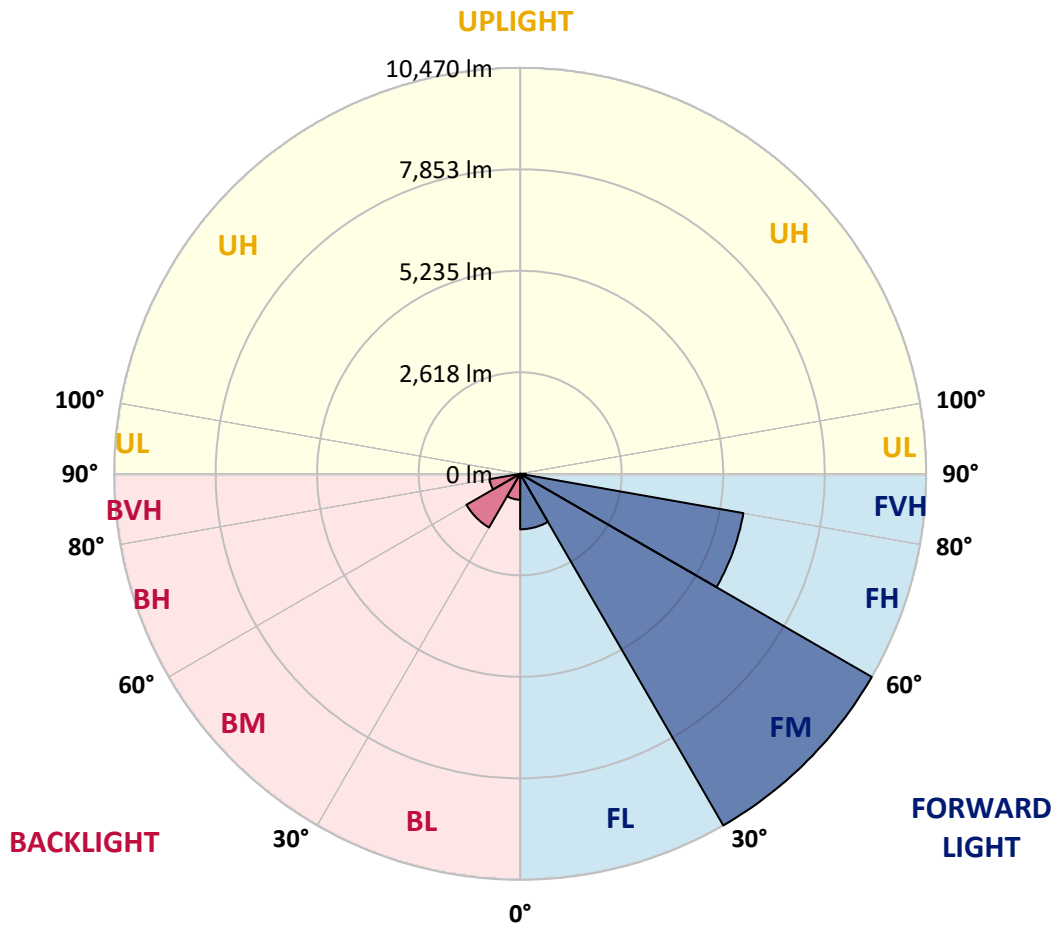
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1431.3	6.8			
FM (30°-60°)	10470.4	49.9			
FH (60°-80°)	5845.5	27.9			G3/7500
FVH (80°-90°)	137.9	0.7			G2/225
BL (0°-30°)	667.0	3.2	B2/1000		
BM (30°-60°)	1599.4	7.6	B2/2500		
BH (60°-80°)	804.6	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.1	0.1			G1/100
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°	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7
2.5°	2648.3	2641.1	2651.2	2646.9	2644.0	2638.2	2635.3	2632.4	2626.7	2622.3
5°	2655.5	2651.2	2661.3	2669.9	2678.6	2687.3	2691.6	2697.3	2691.6	2680.0
7.5°	2594.9	2592.1	2613.7	2639.7	2678.6	2711.8	2747.8	2768.0	2769.5	2765.1
10°	2590.6	2583.4	2605.0	2636.8	2687.3	2746.4	2809.9	2853.1	2858.9	2877.7
12.5°	2658.4	2651.2	2681.5	2716.1	2768.0	2830.1	2907.9	2968.5	2977.2	3003.1
15°	2772.4	2762.3	2796.9	2841.6	2907.9	2978.6	3060.8	3115.7	3122.9	3154.6
17.5°	2905.1	2895.0	2935.4	2983.0	3055.1	3151.7	3246.9	3307.5	3316.2	3336.3
20°	3075.3	3062.3	3094.0	3137.3	3213.7	3329.1	3443.1	3529.6	3528.2	3528.2
22.5°	3272.9	3252.7	3280.1	3314.7	3386.8	3526.7	3678.2	3780.6	3780.6	3740.2
25°	3484.9	3464.7	3495.0	3526.7	3590.2	3748.9	3926.3	4053.2	4059.0	3989.8
27.5°	3750.3	3724.4	3747.4	3784.9	3822.4	3984.0	4194.6	4341.7	4344.6	4237.9
30°	4260.9	4187.4	4115.3	4074.9	4092.2	4252.3	4477.3	4640.3	4654.7	4507.6
32.5°	5195.6	5181.2	4927.3	4595.6	4422.5	4540.8	4793.2	4989.4	4998.0	4809.1
35°	6648.2	6630.9	6222.7	5590.9	5026.9	4927.3	5176.9	5409.1	5403.4	5189.9
37.5°	8382.0	8366.1	7828.1	6982.8	6069.8	5511.5	5671.6	5915.4	5951.5	5671.6
40°	9863.4	9804.2	9463.8	8648.8	7454.5	6480.8	6375.6	6537.1	6574.6	6242.8
42.5°	10985.6	10935.1	10762.0	10252.8	9130.6	7914.6	7205.0	7267.0	7308.8	6910.7
45°	11566.9	11555.3	11624.6	11577.0	10838.4	9674.4	8390.6	8132.4	8148.3	7650.7
47.5°	11649.1	11643.3	11959.2	12406.4	12306.8	11659.2	9912.4	9211.4	9155.1	8485.8
50°	11164.4	11152.9	11758.7	12596.8	13287.7	13326.6	11640.4	10427.3	10303.3	9349.8
52.5°	9616.7	9613.8	10609.1	12003.9	13632.4	14786.4	13348.3	11763.0	11555.3	10264.3
55°	7399.7	7453.0	8594.0	10242.7	13003.5	15488.8	14881.6	13245.9	12927.1	11184.6
57.5°	5241.8	5319.7	6447.7	7916.1	11053.4	15073.4	15918.7	14731.6	14388.3	12102.0
60°	2815.6	2884.9	4014.3	5766.8	8223.3	13524.2	16465.4	16021.1	15696.6	12973.2
62.5°	1677.5	1700.6	2168.0	3722.9	5562.0	10332.1	16233.1	17003.4	16736.5	13704.6
65°	1204.4	1208.8	1443.9	2273.3	3376.7	6277.5	14604.6	17473.6	17391.4	14255.6
67.5°	1014.0	1011.1	1109.2	1510.2	2300.7	3144.5	11193.3	16808.7	17157.7	14604.6
70°	869.8	874.1	989.5	1106.3	1729.5	1780.0	5564.9	14634.9	15379.2	14696.9
72.5°	647.7	662.1	768.8	1008.3	1305.4	1224.6	1921.3	10851.4	12197.2	13847.4
75°	457.3	464.5	540.9	848.2	973.6	891.4	980.9	5609.6	7334.8	10616.3
77.5°	352.0	364.9	409.7	592.8	959.2	626.0	600.1	1941.5	2983.0	6413.1
80°	190.4	213.5	295.7	428.4	673.6	442.8	297.1	773.1	1011.1	2998.8
82.5°	98.1	109.6	206.3	308.7	383.7	386.6	147.1	321.7	416.9	926.0
85°	38.9	47.6	138.5	170.2	197.6	190.4	66.4	129.8	150.0	256.8
87.5°	8.7	14.4	50.5	38.9	37.5	40.4	15.9	30.3	28.8	30.3
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°
2587.7	0°	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7	2587.7
2605.0	2.5°	2603.6	2597.8	2582.0	2564.6	2544.5	2532.9	2525.7	2524.3	2514.2	2506.9
2662.7	5°	2646.9	2641.1	2610.8	2574.7	2535.8	2505.5	2476.7	2450.7	2413.2	2406.0
2746.4	7.5°	2733.4	2717.5	2668.5	2619.5	2545.9	2457.9	2351.2	2228.6	2118.9	2085.8
2857.5	10°	2840.1	2818.5	2756.5	2669.9	2506.9	2267.5	2009.3	1769.9	1579.5	1526.1
2988.7	12.5°	2961.3	2942.6	2860.3	2700.2	2344.0	1909.8	1514.6	1217.4	1032.8	986.6
3128.6	15°	3105.6	3078.2	2964.2	2654.1	2052.6	1451.1	1040.0	864.0	797.7	789.0
3288.7	17.5°	3258.5	3213.7	3056.5	2488.2	1660.2	1031.3	803.4	752.9	724.1	715.4
3450.3	20°	3398.4	3340.7	3111.3	2237.2	1240.5	803.4	719.8	686.6	660.6	650.5
3611.9	22.5°	3538.3	3456.1	3111.3	1895.4	930.4	712.6	660.6	630.3	600.1	587.1
3784.9	25°	3684.0	3574.3	3056.5	1514.6	748.6	653.4	604.4	571.2	545.2	529.4
3949.4	27.5°	3825.3	3673.9	2931.0	1153.9	666.4	601.5	552.5	520.7	496.2	484.7
4128.2	30°	3959.5	3772.0	2755.0	875.6	613.0	551.0	504.9	477.4	452.9	441.4
4360.5	32.5°	4141.2	3896.0	2567.5	718.3	566.9	503.4	461.6	435.6	414.0	405.3
4661.9	35°	4393.6	4079.2	2406.0	705.3	527.9	464.5	422.6	398.1	376.5	369.3
5051.4	37.5°	4751.4	4374.9	2320.9	791.9	496.2	429.8	390.9	364.9	344.7	339.0
5546.2	40°	5192.8	4775.9	2367.0	878.4	474.6	399.6	362.1	336.1	318.8	311.6
6114.5	42.5°	5716.4	5270.6	2622.3	944.8	460.1	373.6	334.6	305.8	294.3	291.4
6759.2	45°	6317.9	5814.4	3013.2	1015.5	437.1	349.1	307.2	285.6	276.9	275.5
7460.3	47.5°	7001.6	6411.6	3466.2	1103.5	414.0	326.0	285.6	271.2	264.0	261.1
8191.6	50°	7679.5	7013.1	3932.1	1152.5	395.2	304.4	268.3	256.8	251.0	249.5
8964.7	52.5°	8389.2	7631.9	4308.5	1106.3	379.4	287.0	253.9	245.2	239.4	238.0
9677.3	55°	9065.7	8132.4	4373.5	939.0	347.6	269.7	238.0	233.7	226.5	226.5
10399.9	57.5°	9648.4	8383.4	3914.8	689.5	315.9	243.8	222.1	217.8	212.0	210.6
11051.9	60°	10183.6	8311.3	3021.9	464.5	281.3	217.8	201.9	199.1	193.3	186.1
11618.8	62.5°	10485.0	7994.0	2067.0	302.9	246.7	190.4	178.9	177.4	164.4	150.0
12038.5	65°	10599.0	7342.0	1289.5	220.7	206.3	163.0	154.3	151.5	132.7	116.8
12276.5	67.5°	10499.5	6268.8	650.5	174.5	163.0	135.6	126.9	126.9	114.0	99.5
12262.1	70°	10101.4	4699.4	274.1	139.9	125.5	103.9	103.9	109.6	96.6	80.8
11626.0	72.5°	9237.3	3161.8	145.7	106.7	93.8	73.6	85.1	89.4	76.4	60.6
9515.7	75°	7343.4	1928.5	101.0	79.3	59.1	51.9	64.9	67.8	51.9	40.4
6524.1	77.5°	5022.6	1107.8	67.8	50.5	37.5	30.3	44.7	41.8	27.4	18.8
2515.6	80°	2205.5	461.6	38.9	23.1	14.4	11.5	15.9	11.5	8.7	5.8
344.7	82.5°	258.2	108.2	14.4	8.7	5.8	2.9	1.4	0.0	0.0	0.0
105.3	85°	53.4	13.0	7.2	2.9	1.4	0.0	0.0	0.0	0.0	0.0
18.8	87.5°	10.1	2.9	1.4	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°
2587.7
2514.2
2403.1
2069.9
1505.9
973.6
780.4
711.1
644.8
579.9
523.6
484.7
442.8
405.3
369.3
337.5
310.1
291.4
274.1
261.1
249.5
238.0
225.0
209.2
184.6
147.1
115.4
98.1
79.3
60.6
38.9
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