

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: P942826

Luminaire Tested: **GALN-SB7A-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25019 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

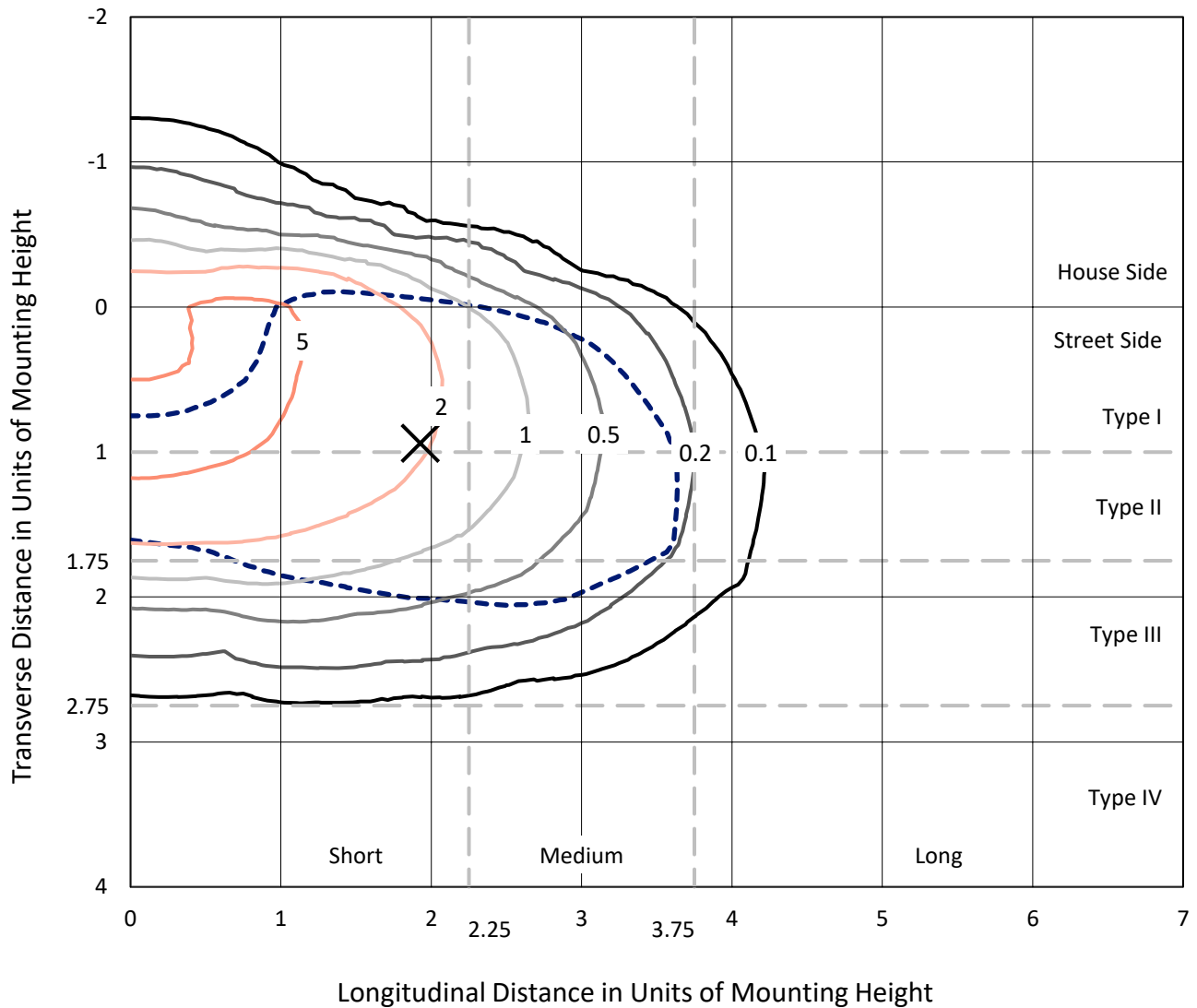
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

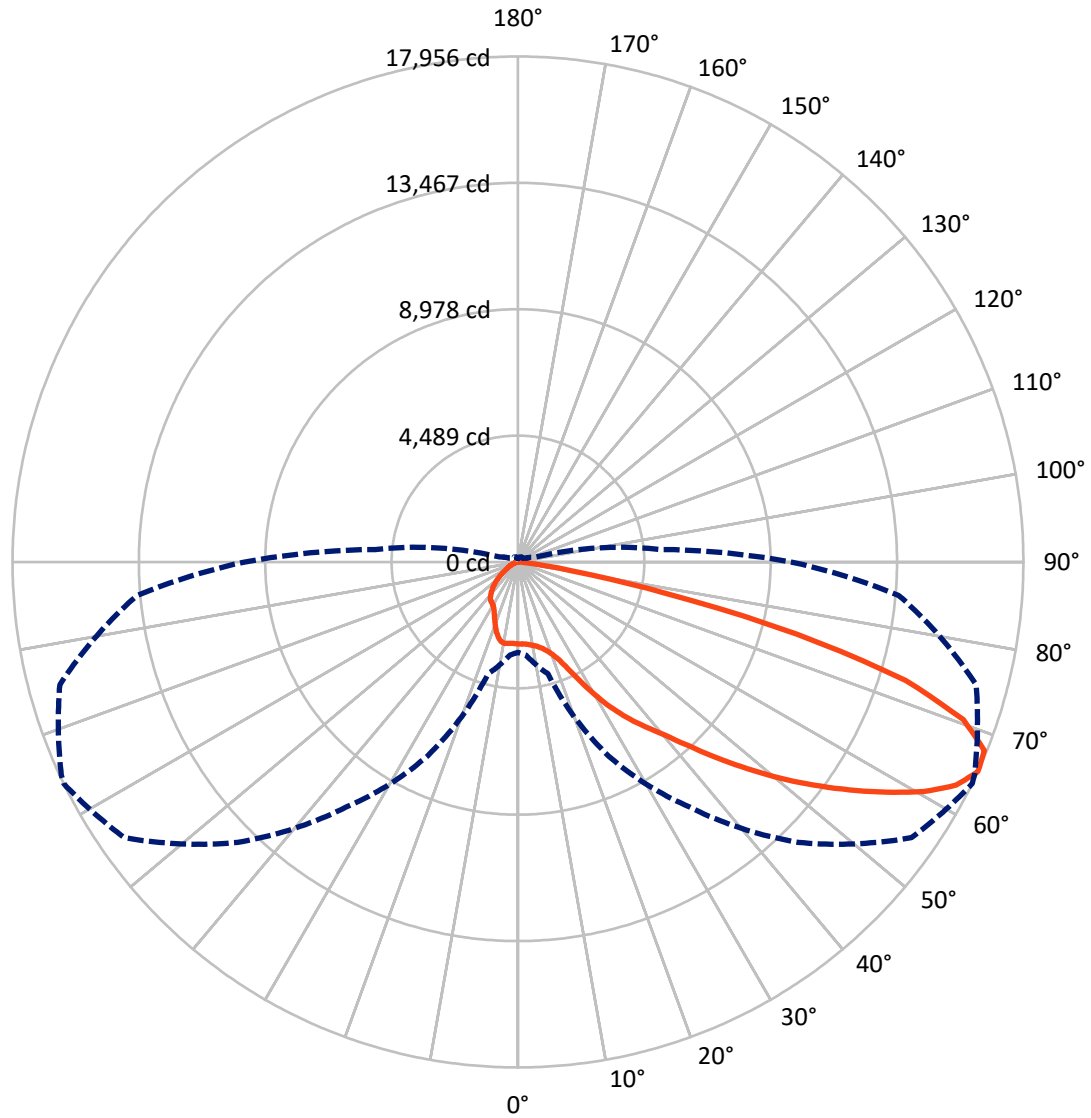
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3345.8	0.0	3345.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21673.2	0.0	21673.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	25019.0	0.0	25019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.5	1.1
10°-20°	728.2	2.9
20°-30°	1379.8	5.5
30°-40°	2792.1	11.2
40°-50°	4756.4	19.0
50°-60°	6468.4	25.9
60°-70°	6074.1	24.3
70°-80°	2433.6	9.7
80°-90°	117.9	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°	25019.0	100.0
0°-180°	25019.0	100.0

Coefficient of Utilization



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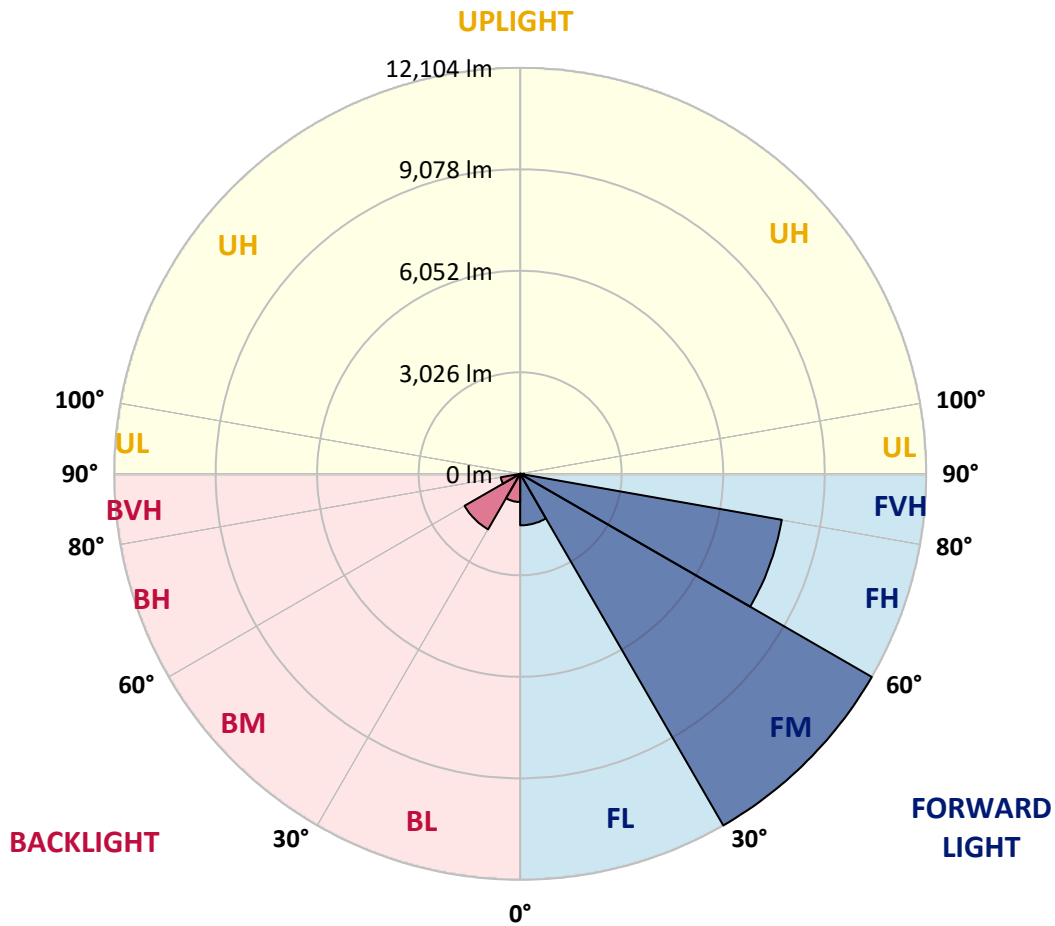
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1536.5	6.1			
FM (30°-60°)	12104.2	48.4			
FH (60°-80°)	7920.4	31.7			G4/12000
FVH (80°-90°)	112.1	0.4			G2/225
BL (0°-30°)	840.0	3.4	B2/1000		
BM (30°-60°)	1912.8	7.6	B2/2500		
BH (60°-80°)	587.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2910.0	2910.0	2910.0	2910.0	2910.0	2910.0	2910.0	2910.0	2910.0	2910.0
2.5°	2899.9	2920.0	2915.0	2910.0	2908.3	2911.6	2913.3	2911.6	2911.6	2911.6
5°	2844.6	2861.3	2861.3	2873.1	2889.8	2910.0	2925.1	2928.4	2931.8	2936.8
7.5°	2738.9	2752.3	2762.4	2801.0	2842.9	2896.6	2941.8	2965.3	2968.7	2987.1
10°	2666.8	2683.5	2700.3	2740.6	2801.0	2881.5	2958.6	3015.6	3024.0	3067.6
12.5°	2663.4	2680.2	2702.0	2745.6	2816.0	2901.6	2995.5	3077.7	3092.8	3156.5
15°	2698.6	2718.8	2738.9	2792.6	2868.0	2972.0	3072.7	3175.0	3190.1	3280.6
17.5°	2770.8	2797.6	2812.7	2866.4	2946.9	3062.6	3195.1	3312.5	3325.9	3431.6
20°	2913.3	2945.2	2950.2	2993.8	3072.7	3196.8	3354.4	3500.3	3517.1	3637.9
22.5°	3208.5	3253.8	3213.5	3235.3	3305.8	3429.9	3601.0	3785.5	3809.0	3946.5
25°	3728.5	3792.2	3688.2	3651.3	3681.5	3810.6	4025.3	4258.5	4285.3	4396.0
27.5°	4749.9	4667.7	4510.0	4355.7	4265.2	4339.0	4580.5	4869.0	4902.5	5009.8
30°	5871.9	5799.8	5586.8	5244.7	5030.0	5018.2	5241.3	5563.3	5601.9	5704.2
32.5°	6995.7	6926.9	6695.4	6274.5	5902.1	5717.6	5871.9	6229.2	6249.3	6314.7
35°	8101.0	8030.5	7799.1	7368.0	6910.1	6490.8	6460.6	6863.2	6869.9	6938.6
37.5°	9212.9	9154.2	8907.7	8485.0	8033.9	7455.2	7175.1	7463.6	7472.0	7539.1
40°	10006.3	10031.4	9862.0	9535.0	9147.5	8515.2	7976.8	8102.6	8052.3	8164.7
42.5°	10687.2	10737.5	10589.9	10425.6	10200.8	9644.0	8969.8	8947.9	8867.4	8927.8
45°	11275.9	11317.9	11185.4	11146.8	11141.7	10751.0	10054.9	9924.1	9811.7	9800.0
47.5°	11492.3	11572.8	11629.8	11759.0	12010.5	11846.2	11177.0	10974.0	10848.2	10756.0
50°	11574.5	11660.0	11854.6	12230.3	12825.7	12896.1	12294.0	12065.9	11911.6	11743.9
52.5°	11463.8	11616.4	11878.0	12510.4	13374.1	13738.1	13365.7	13166.1	12990.0	12716.7
55°	10811.3	10964.0	11499.0	12507.0	13647.5	14328.5	14378.8	14289.9	14092.0	13660.9
57.5°	9436.0	9662.4	10509.4	12081.0	13642.5	14836.7	15371.7	15435.4	15214.0	14596.8
60°	7530.7	7837.6	8870.8	11136.7	13221.5	15111.7	16242.2	16560.8	16326.0	15519.3
62.5°	5254.7	5610.3	6588.1	9657.4	12258.8	14913.8	16877.8	17466.5	17288.7	16344.5
65°	3205.2	3319.2	4107.5	7599.5	10621.8	14085.3	17074.1	17956.3	17897.6	16849.3
67.5°	2135.1	2230.7	2457.1	5211.1	8245.2	12429.8	16604.4	17870.7	17887.5	16767.1
70°	1286.4	1368.6	1516.2	3030.7	5343.6	9838.5	15150.3	16780.5	16877.8	15668.6
72.5°	530.0	585.3	719.5	1373.6	2767.4	6244.3	12064.2	14407.3	14633.7	13174.5
75°	300.2	328.7	422.7	689.3	1200.9	2910.0	7307.6	10227.7	10561.4	9080.4
77.5°	199.6	213.0	273.4	446.1	675.9	992.9	3123.0	5328.5	5965.9	4959.5
80°	134.2	145.9	187.8	298.5	439.4	426.0	994.6	1974.1	2428.6	1704.1
82.5°	90.6	92.2	134.2	196.2	278.4	206.3	293.5	613.9	771.5	493.1
85°	52.0	50.3	99.0	114.1	124.1	85.5	88.9	184.5	241.5	208.0
87.5°	6.7	10.1	38.6	30.2	16.8	18.4	18.4	31.9	47.0	50.3
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°
2910.0	0°	2910.0	2910.0	2910.0	2910.0	2910.0	2910.0	2910.0	2910.0	2910.0	2910.0
2913.3	2.5°	2913.3	2911.6	2906.6	2901.6	2889.8	2883.1	2886.5	2883.1	2881.5	2883.1
2935.1	5°	2935.1	2930.1	2916.7	2899.9	2876.4	2847.9	2829.5	2802.6	2777.5	2762.4
2993.8	7.5°	2993.8	2988.8	2970.3	2923.4	2847.9	2728.8	2619.8	2524.2	2452.1	2410.2
3087.8	10°	3087.8	3079.4	3050.9	2946.9	2749.0	2489.0	2272.6	2093.2	1975.8	1920.4
3198.5	12.5°	3198.5	3188.4	3138.1	2925.1	2561.1	2155.2	1856.7	1657.1	1548.1	1499.4
3325.9	15°	3329.3	3315.9	3216.9	2821.1	2287.7	1786.2	1512.8	1363.6	1293.1	1249.5
3488.6	17.5°	3492.0	3468.5	3275.6	2665.1	1990.9	1504.5	1301.5	1189.1	1127.1	1085.2
3701.6	20°	3703.3	3664.7	3322.6	2478.9	1717.5	1326.7	1159.0	1065.0	1018.1	981.2
4003.5	22.5°	3998.5	3943.1	3379.6	2277.7	1524.6	1204.2	1053.3	984.5	945.9	904.0
4424.5	25°	4364.1	4298.7	3450.0	2091.5	1392.1	1098.6	976.1	919.1	873.8	825.2
4976.3	27.5°	4875.7	4758.3	3533.9	1938.9	1278.0	1008.0	905.7	842.0	790.0	749.7
5601.9	30°	5445.9	5253.0	3607.7	1846.6	1174.1	924.1	813.4	749.7	701.1	672.6
6163.8	32.5°	5986.0	5724.3	3656.3	1806.4	1080.1	828.5	712.8	644.1	607.2	598.8
6713.9	35°	6495.9	6150.4	3651.3	1767.8	996.3	732.9	613.9	543.4	514.9	519.9
7306.0	37.5°	7082.9	6604.9	3616.1	1707.4	927.5	645.7	528.3	466.3	441.1	442.8
8025.5	40°	7765.5	7129.8	3594.3	1593.4	852.0	565.2	457.9	407.6	389.1	382.4
8783.6	42.5°	8493.4	7638.0	3597.6	1464.2	758.1	493.1	409.2	367.3	350.5	345.5
9627.2	45°	9224.7	8122.8	3602.7	1330.0	659.1	437.8	374.0	338.8	328.7	322.0
10482.6	47.5°	9912.3	8535.4	3508.7	1185.8	561.9	395.8	345.5	322.0	313.6	305.3
11341.3	50°	10553.0	8810.4	3282.3	1018.1	484.7	362.3	323.7	306.9	298.5	290.2
12119.6	52.5°	11051.2	8854.0	2908.3	845.3	431.0	337.1	310.3	295.2	285.1	276.7
12748.5	55°	11272.6	8580.6	2376.6	684.3	389.1	315.3	296.9	281.8	270.0	261.6
13243.3	57.5°	11215.5	8005.4	1853.3	550.1	348.9	293.5	280.1	270.0	256.6	243.2
13644.2	60°	10935.4	7235.5	1397.1	457.9	312.0	270.0	261.6	253.3	234.8	214.7
13798.5	62.5°	10450.7	6267.8	996.3	379.1	271.7	243.2	239.8	233.1	206.3	169.4
13570.4	65°	9709.4	5092.0	670.9	315.3	233.1	213.0	214.7	202.9	167.7	125.8
12735.1	67.5°	8625.9	3723.4	429.4	258.3	194.6	177.8	179.5	172.8	142.6	107.3
11151.8	70°	7245.6	2465.5	280.1	196.2	156.0	137.5	147.6	149.3	120.8	87.2
8558.8	72.5°	5311.7	1455.8	196.2	145.9	114.1	95.6	120.8	124.1	97.3	65.4
5149.1	75°	3027.4	691.0	147.6	105.7	70.4	67.1	93.9	93.9	67.1	43.6
2229.0	77.5°	1271.3	288.5	104.0	68.8	40.3	38.6	63.7	58.7	33.5	20.1
543.4	80°	367.3	129.1	55.3	33.5	16.8	15.1	25.2	18.4	8.4	3.4
206.3	82.5°	144.2	57.0	21.8	13.4	6.7	6.7	3.4	0.0	0.0	0.0
117.4	85°	85.5	23.5	10.1	5.0	1.7	0.0	0.0	0.0	0.0	0.0
25.2	87.5°	21.8	5.0	3.4	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°
2910.0
2889.8
2765.7
2411.8
1915.4
1494.4
1251.2
1081.8
974.5
897.3
820.2
741.3
667.5
603.8
519.9
449.5
380.7
343.8
322.0
305.3
290.2
275.1
260.0
241.5
211.3
166.0
122.4
102.3
83.9
62.1
40.3
20.1
3.4
0.0
0.0
0.0
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