

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: P942886

Luminaire Tested: **GALN-SB7A-835-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942886
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-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 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: 23206 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

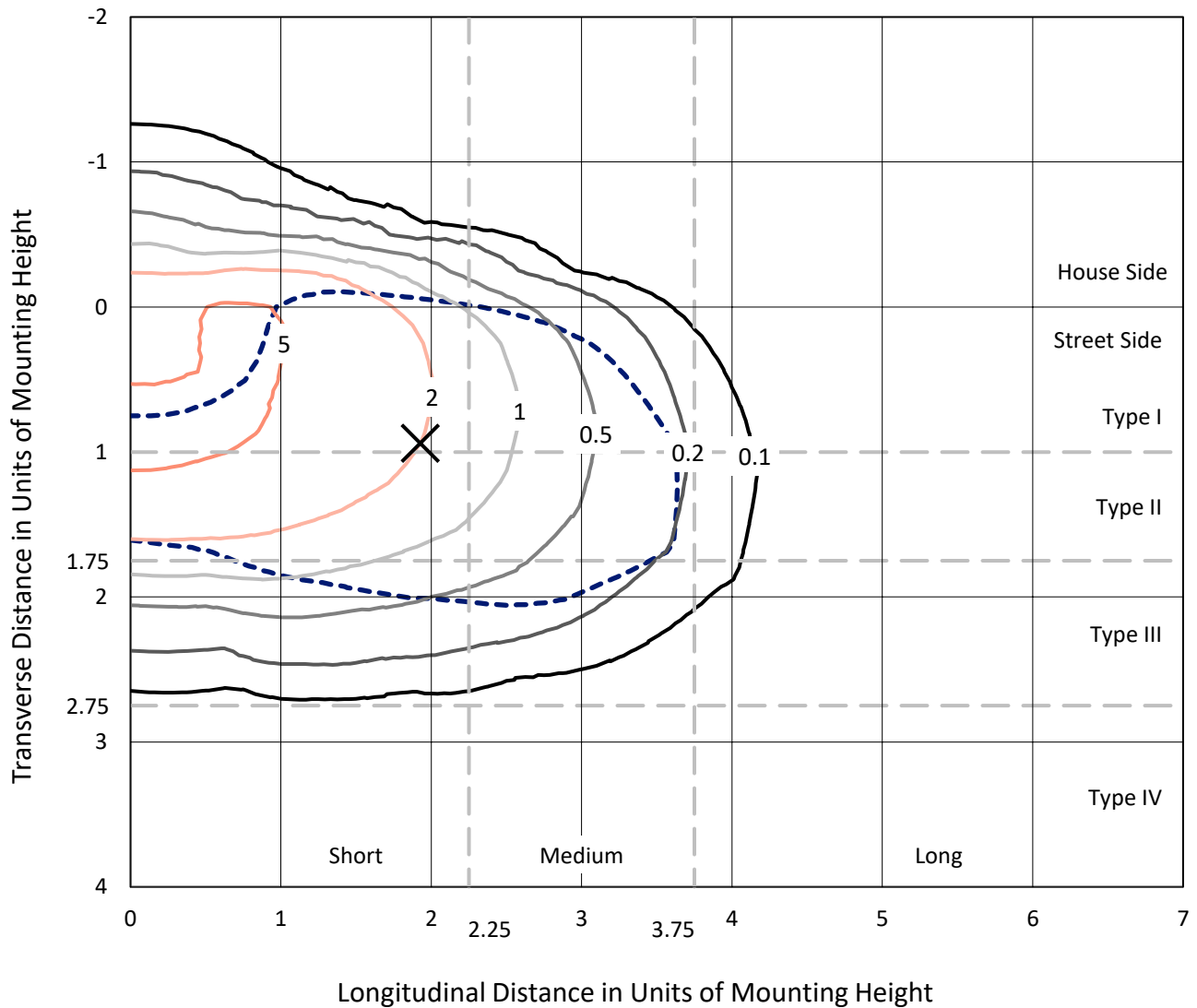
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

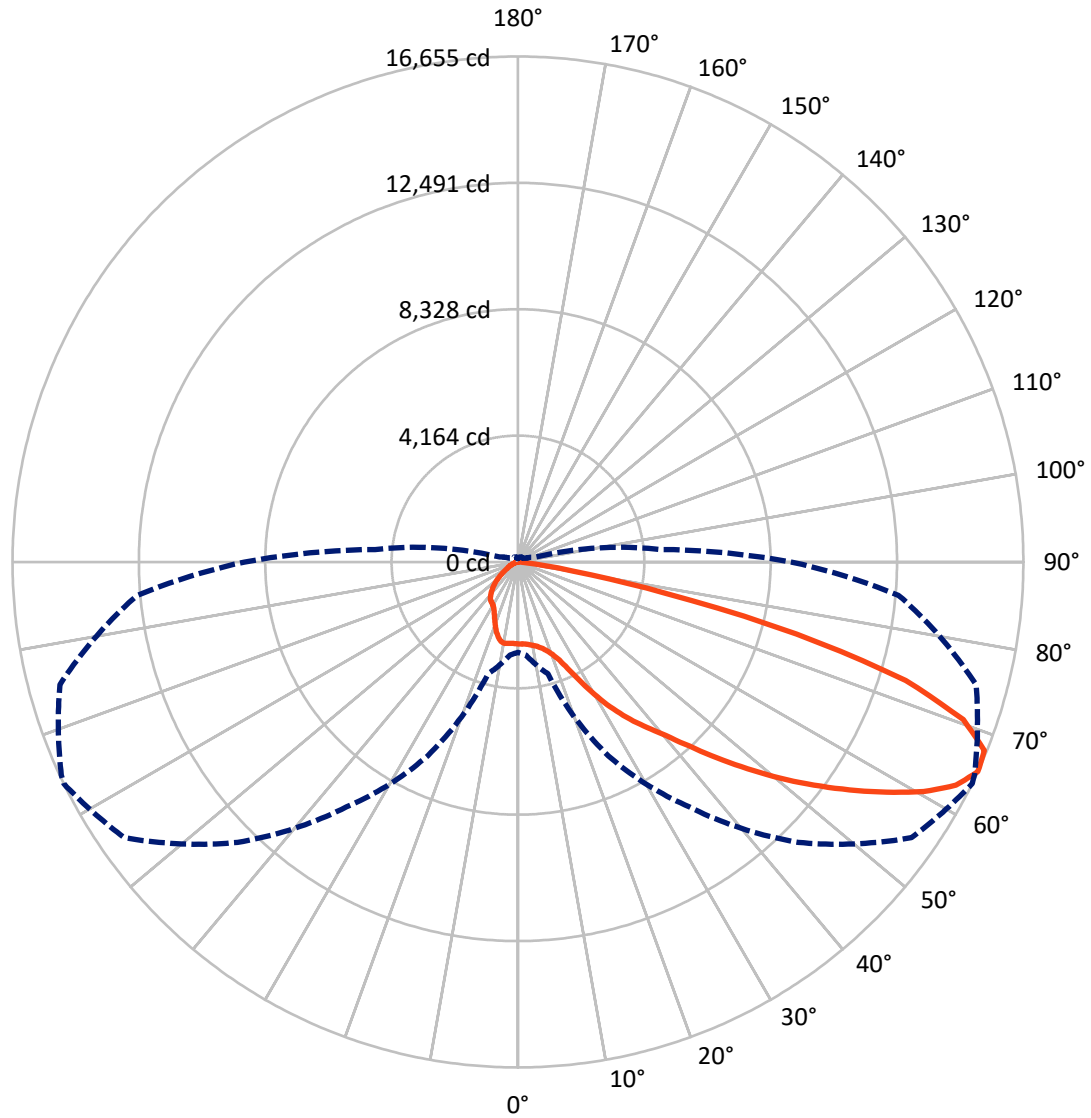
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	3103.4	0.0	3103.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	20102.7	0.0	20102.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	23206.0	0.0	23206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.0	1.1
10°-20°	675.4	2.9
20°-30°	1279.8	5.5
30°-40°	2589.8	11.2
40°-50°	4411.8	19.0
50°-60°	5999.6	25.9
60°-70°	5634.0	24.3
70°-80°	2257.2	9.7
80°-90°	109.4	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°	23206.0	100.0
0°-180°	23206.0	100.0

Coefficient of Utilization



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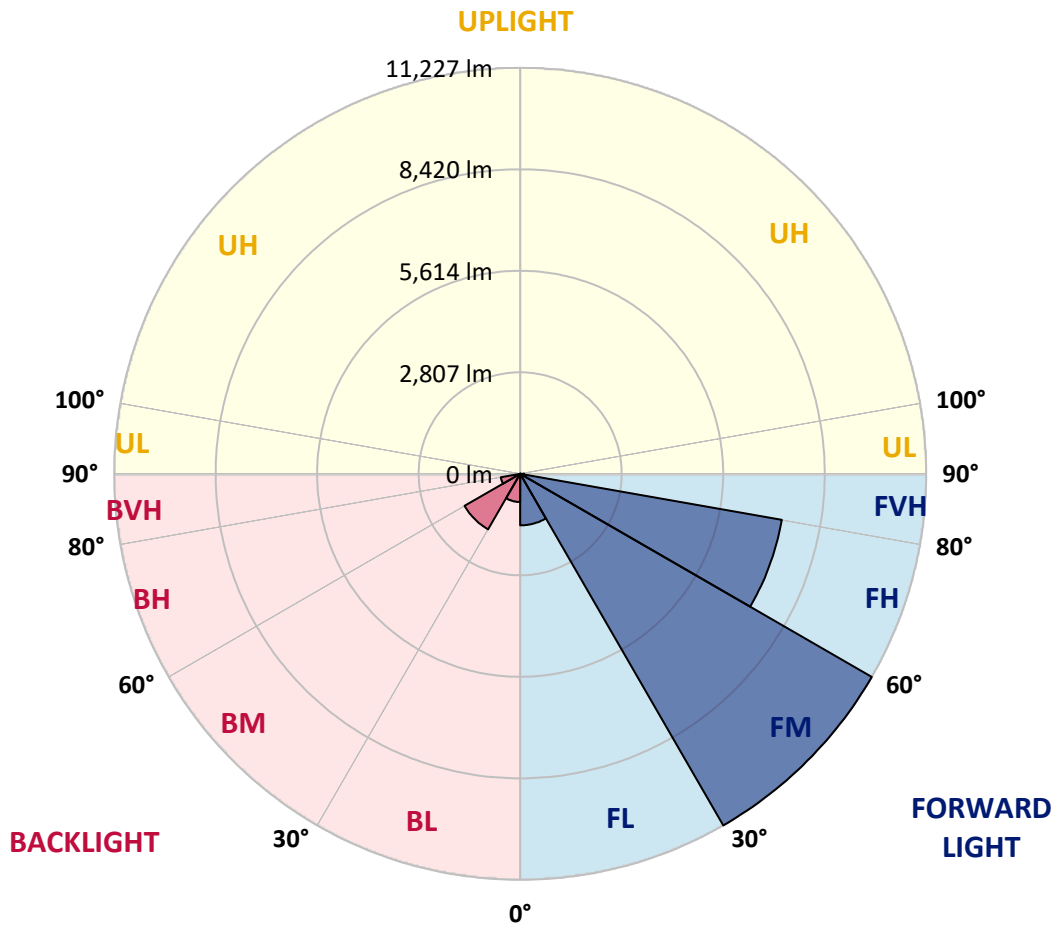
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1425.1	6.1			
FM	(30°-60°)	11227.0	48.4			
FH	(60°-80°)	7346.5	31.7			G3/7500
FVH	(80°-90°)	104.0	0.4			G2/225
BL	(0°-30°)	779.2	3.4	B2/1000		
BM	(30°-60°)	1774.2	7.6	B2/2500		
BH	(60°-80°)	544.7	2.3	B2/1000		G2/1000
BVH	(80°-90°)	5.3	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2699.1	2699.1	2699.1	2699.1	2699.1	2699.1	2699.1	2699.1	2699.1	2699.1
2.5°	2689.8	2708.4	2703.8	2699.1	2697.5	2700.7	2702.2	2700.7	2700.7	2700.7
5°	2638.4	2654.0	2654.0	2664.9	2680.4	2699.1	2713.1	2716.2	2719.3	2724.0
7.5°	2540.4	2552.9	2562.2	2598.0	2636.9	2686.7	2728.7	2750.4	2753.5	2770.7
10°	2473.5	2489.1	2504.6	2542.0	2598.0	2672.7	2744.2	2797.1	2804.9	2845.3
12.5°	2470.4	2486.0	2506.2	2546.6	2612.0	2691.3	2778.4	2854.7	2868.7	2927.8
15°	2503.1	2521.8	2540.4	2590.2	2660.2	2756.7	2850.0	2944.9	2958.9	3042.9
17.5°	2570.0	2594.9	2608.9	2658.7	2733.3	2840.7	2963.6	3072.5	3084.9	3182.9
20°	2702.2	2731.8	2736.4	2776.9	2850.0	2965.1	3111.4	3246.7	3262.3	3374.3
22.5°	2976.0	3018.0	2980.7	3000.9	3066.2	3181.4	3340.0	3511.2	3532.9	3660.5
25°	3458.3	3517.4	3420.9	3386.7	3414.7	3534.5	3733.6	3949.9	3974.8	4077.4
27.5°	4405.7	4329.4	4183.2	4040.1	3956.1	4024.5	4248.6	4516.1	4547.2	4646.8
30°	5446.4	5379.5	5182.0	4864.6	4665.5	4654.6	4861.5	5160.2	5196.0	5290.9
32.5°	6488.7	6424.9	6210.3	5819.8	5474.4	5303.3	5446.4	5777.8	5796.5	5857.1
35°	7513.9	7448.6	7233.9	6834.1	6409.4	6020.5	5992.5	6365.8	6372.1	6435.8
37.5°	8545.3	8490.9	8262.2	7870.2	7451.7	6915.0	6655.2	6922.8	6930.5	6992.8
40°	9281.2	9304.5	9147.4	8844.0	8484.7	7898.2	7398.8	7515.5	7468.8	7573.0
42.5°	9912.8	9959.4	9822.5	9670.1	9461.6	8945.1	8319.8	8299.5	8224.9	8280.9
45°	10458.8	10497.7	10374.8	10339.0	10334.4	9971.9	9326.3	9204.9	9100.7	9089.8
47.5°	10659.5	10734.2	10787.1	10906.8	11140.2	10987.7	10367.0	10178.8	10062.1	9976.6
50°	10735.7	10815.1	10995.5	11344.0	11896.3	11961.6	11403.1	11191.5	11048.4	10892.8
52.5°	10633.0	10774.6	11017.3	11603.8	12405.0	12742.5	12397.2	12212.1	12048.7	11795.1
55°	10027.9	10169.5	10665.7	11600.7	12658.5	13290.1	13336.8	13254.4	13070.8	12671.0
57.5°	8752.2	8962.3	9747.9	11205.5	12653.9	13761.5	14257.8	14316.9	14111.5	13539.1
60°	6985.0	7269.7	8228.0	10329.7	12263.4	14016.6	15065.2	15360.7	15143.0	14394.7
62.5°	4873.9	5203.7	6110.7	8957.6	11370.4	13833.1	15654.8	16200.8	16035.9	15160.1
65°	2972.9	3078.7	3809.9	7048.8	9852.1	13064.6	15836.8	16655.1	16600.6	15628.3
67.5°	1980.4	2069.0	2279.1	4833.5	7647.7	11529.1	15401.2	16575.7	16591.3	15552.1
70°	1193.2	1269.4	1406.3	2811.1	4956.4	9125.6	14052.4	15564.5	15654.8	14533.1
72.5°	491.6	542.9	667.4	1274.1	2566.9	5791.8	11190.0	13363.3	13573.3	12219.8
75°	278.5	304.9	392.0	639.4	1113.9	2699.1	6778.1	9486.5	9796.1	8422.4
77.5°	185.1	197.6	253.6	413.8	626.9	921.0	2896.7	4942.4	5533.5	4600.1
80°	124.5	135.3	174.2	276.9	407.6	395.1	922.5	1831.0	2252.6	1580.6
82.5°	84.0	85.6	124.5	182.0	258.2	191.3	272.2	569.4	715.6	457.4
85°	48.2	46.7	91.8	105.8	115.1	79.3	82.5	171.1	224.0	192.9
87.5°	6.2	9.3	35.8	28.0	15.6	17.1	17.1	29.6	43.6	46.7
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°
2699.1	0°	2699.1	2699.1	2699.1	2699.1	2699.1	2699.1	2699.1	2699.1	2699.1	2699.1
2702.2	2.5°	2702.2	2700.7	2696.0	2691.3	2680.4	2674.2	2677.3	2674.2	2672.7	2674.2
2722.4	5°	2722.4	2717.8	2705.3	2689.8	2668.0	2641.5	2624.4	2599.5	2576.2	2562.2
2776.9	7.5°	2776.9	2772.2	2755.1	2711.5	2641.5	2531.1	2430.0	2341.3	2274.4	2235.5
2864.0	10°	2864.0	2856.2	2829.8	2733.3	2549.8	2308.6	2107.9	1941.5	1832.6	1781.2
2966.7	12.5°	2966.7	2957.3	2910.7	2713.1	2375.5	1999.0	1722.1	1537.0	1435.9	1390.8
3084.9	15°	3088.0	3075.6	2983.8	2616.6	2121.9	1656.8	1403.2	1264.8	1199.4	1159.0
3235.8	17.5°	3238.9	3217.1	3038.2	2472.0	1846.6	1395.4	1207.2	1103.0	1045.4	1006.5
3433.4	20°	3434.9	3399.2	3081.8	2299.3	1593.0	1230.5	1075.0	987.9	944.3	910.1
3713.4	22.5°	3708.7	3657.4	3134.7	2112.6	1414.1	1117.0	977.0	913.2	877.4	838.5
4103.9	25°	4047.9	3987.2	3200.0	1939.9	1291.2	1019.0	905.4	852.5	810.5	765.4
4615.7	27.5°	4522.4	4413.5	3277.8	1798.4	1185.4	935.0	840.1	780.9	732.7	695.4
5196.0	30°	5051.3	4872.4	3346.3	1712.8	1089.0	857.2	754.5	695.4	650.3	623.8
5717.1	32.5°	5552.2	5309.5	3391.4	1675.5	1001.9	768.5	661.2	597.4	563.2	555.4
6227.4	35°	6025.1	5704.7	3386.7	1639.7	924.1	679.8	569.4	504.0	477.6	482.3
6776.5	37.5°	6569.6	6126.3	3354.0	1583.7	860.3	598.9	490.0	432.5	409.1	410.7
7443.9	40°	7202.8	6613.2	3333.8	1477.9	790.3	524.3	424.7	378.0	360.9	354.7
8147.1	42.5°	7877.9	7084.6	3336.9	1358.1	703.2	457.4	379.6	340.7	325.1	320.5
8929.6	45°	8556.2	7534.1	3341.6	1233.7	611.4	406.0	346.9	314.2	304.9	298.7
9723.0	47.5°	9194.0	7916.8	3254.5	1099.9	521.2	367.1	320.5	298.7	290.9	283.1
10519.5	50°	9788.3	8172.0	3044.5	944.3	449.6	336.0	300.2	284.7	276.9	269.1
11241.3	52.5°	10250.4	8212.4	2697.5	784.1	399.8	312.7	287.8	273.8	264.5	256.7
11824.7	55°	10455.7	7958.8	2204.4	634.7	360.9	292.5	275.4	261.4	250.5	242.7
12283.6	57.5°	10402.8	7425.2	1719.0	510.3	323.6	272.2	259.8	250.5	238.0	225.6
12655.4	60°	10143.0	6711.2	1295.9	424.7	289.4	250.5	242.7	234.9	217.8	199.1
12798.6	62.5°	9693.4	5813.6	924.1	351.6	252.0	225.6	222.5	216.2	191.3	157.1
12587.0	65°	9005.8	4723.0	622.3	292.5	216.2	197.6	199.1	188.2	155.6	116.7
11812.3	67.5°	8000.8	3453.6	398.3	239.6	180.5	164.9	166.5	160.2	132.2	99.6
10343.7	70°	6720.5	2286.8	259.8	182.0	144.7	127.6	136.9	138.5	112.0	80.9
7938.6	72.5°	4926.8	1350.3	182.0	135.3	105.8	88.7	112.0	115.1	90.2	60.7
4775.9	75°	2808.0	640.9	136.9	98.0	65.3	62.2	87.1	87.1	62.2	40.4
2067.5	77.5°	1179.2	267.6	96.5	63.8	37.3	35.8	59.1	54.4	31.1	18.7
504.0	80°	340.7	119.8	51.3	31.1	15.6	14.0	23.3	17.1	7.8	3.1
191.3	82.5°	133.8	52.9	20.2	12.4	6.2	6.2	3.1	0.0	0.0	0.0
108.9	85°	79.3	21.8	9.3	4.7	1.6	0.0	0.0	0.0	0.0	0.0
23.3	87.5°	20.2	4.7	3.1	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

<u>180°</u>
2699.1
2680.4
2565.3
2237.1
1776.6
1386.1
1160.5
1003.4
903.8
832.3
760.7
687.6
619.2
560.0
482.3
416.9
353.1
318.9
298.7
283.1
269.1
255.1
241.1
224.0
196.0
154.0
113.6
94.9
77.8
57.6
37.3
18.7
3.1
0.0
0.0
0.0
0.0

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