

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: P941426

Luminaire Tested: **GALN-SB4D-950-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941426  
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-SB4D-950-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

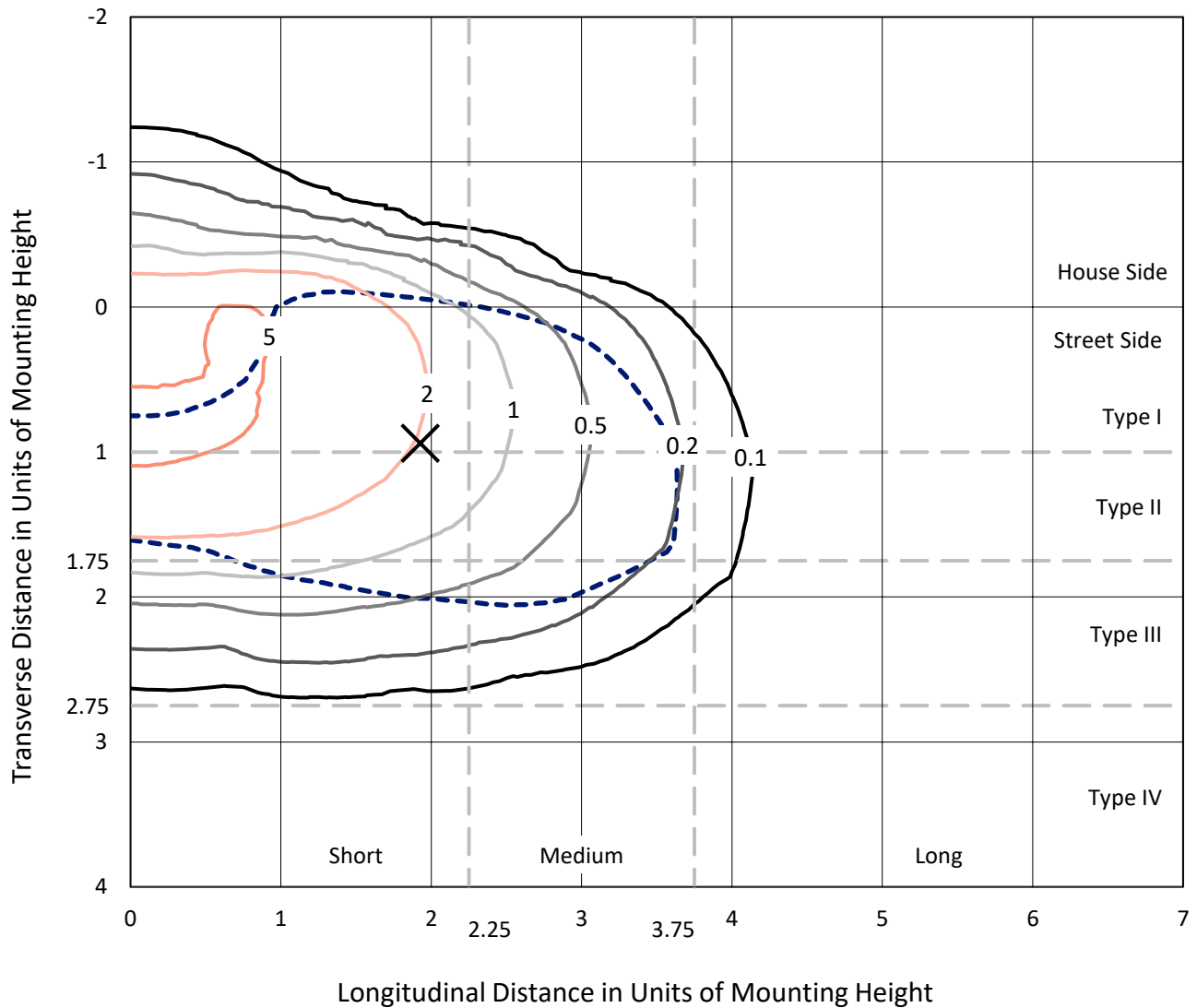
Lumens per Lamp: N/A  
Luminaire Lumens: 22251 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

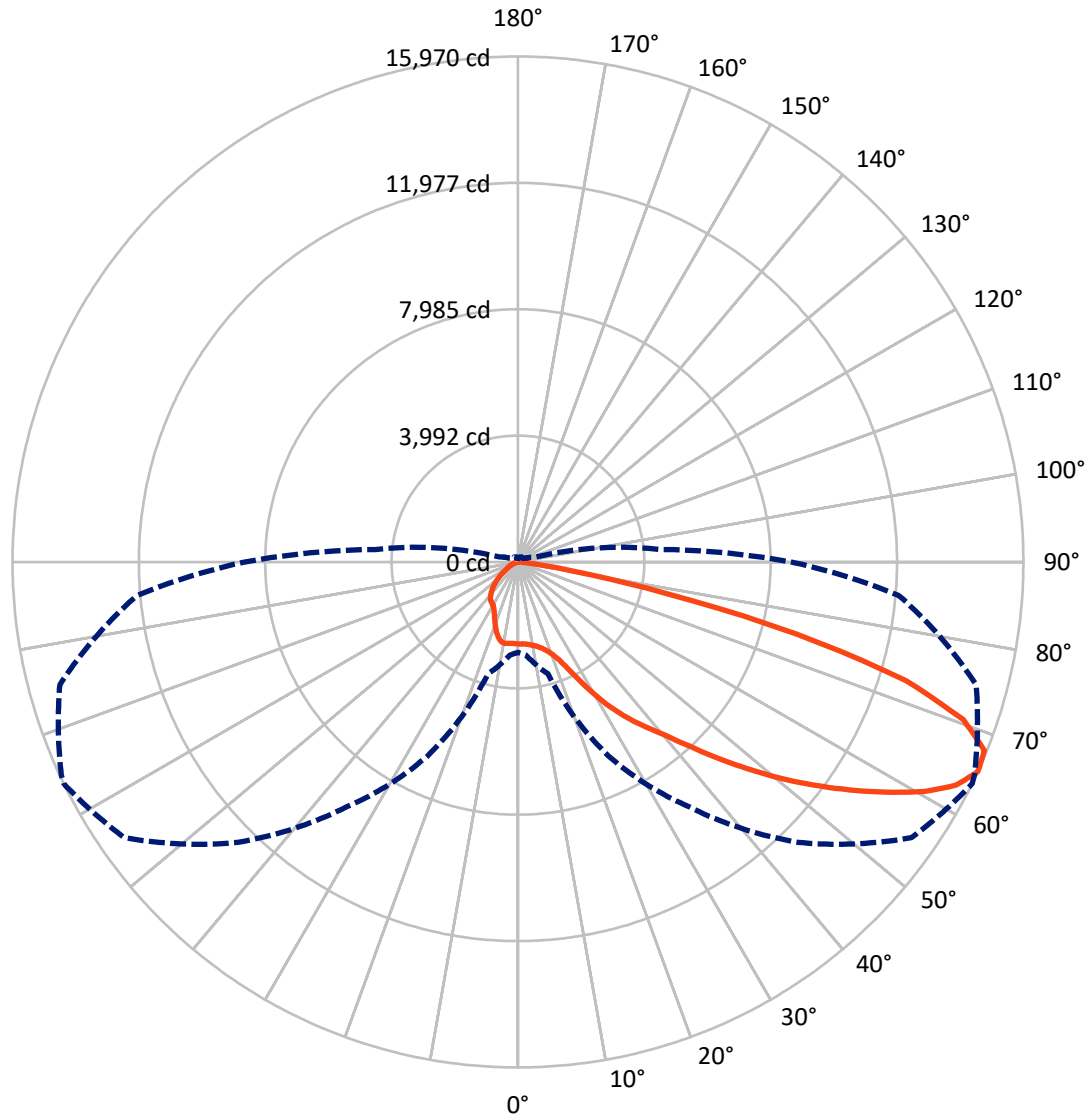
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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
<b>House Side</b>	Lumens	2975.6	0.0	2975.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	19275.4	0.0	19275.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	22251.0	0.0	22251.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.8	1.1
10°-20°	647.6	2.9
20°-30°	1227.2	5.5
30°-40°	2483.2	11.2
40°-50°	4230.2	19.0
50°-60°	5752.7	25.9
60°-70°	5402.1	24.3
70°-80°	2164.3	9.7
80°-90°	104.9	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°	22251.0	100.0
0°-180°	22251.0	100.0

**Coefficient of Utilization**



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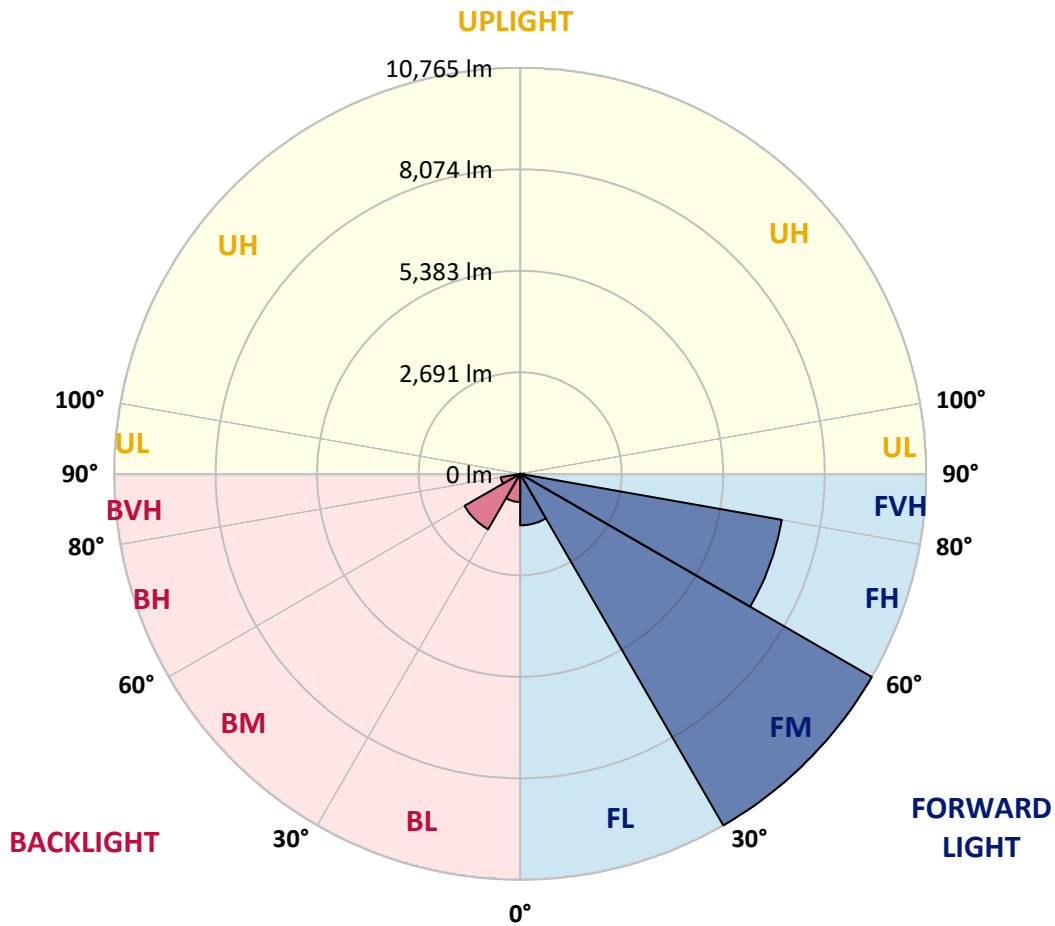
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1366.5	6.1			
FM (30°-60°)	10765.0	48.4			
FH (60°-80°)	7044.2	31.7			G3/7500
FVH (80°-90°)	99.7	0.4			G1/100
BL (0°-30°)	747.1	3.4	B2/1000		
BM (30°-60°)	1701.2	7.6	B2/2500		
BH (60°-80°)	522.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.1	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°	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0
2.5°	2579.1	2597.0	2592.5	2588.0	2586.5	2589.5	2591.0	2589.5	2589.5	2589.5
5°	2529.8	2544.8	2544.8	2555.2	2570.1	2588.0	2601.4	2604.4	2607.4	2611.9
7.5°	2435.9	2447.8	2456.8	2491.1	2528.4	2576.1	2616.4	2637.2	2640.2	2656.6
10°	2371.7	2386.6	2401.6	2437.4	2491.1	2562.7	2631.3	2682.0	2689.5	2728.2
12.5°	2368.7	2383.7	2403.1	2441.8	2504.5	2580.6	2664.1	2737.2	2750.6	2807.3
15°	2400.1	2418.0	2435.9	2483.6	2550.7	2643.2	2732.7	2823.7	2837.1	2917.7
17.5°	2464.2	2488.1	2501.5	2549.2	2620.8	2723.8	2841.6	2946.0	2958.0	3051.9
20°	2591.0	2619.3	2623.8	2662.6	2732.7	2843.1	2983.3	3113.1	3128.0	3235.4
22.5°	2853.5	2893.8	2858.0	2877.4	2940.1	3050.4	3202.6	3366.7	3387.5	3509.9
25°	3316.0	3372.6	3280.2	3247.3	3274.2	3389.0	3580.0	3787.3	3811.2	3909.6
27.5°	4224.4	4151.3	4011.1	3873.8	3793.3	3858.9	4073.7	4330.3	4360.1	4455.6
30°	5222.3	5158.1	4968.7	4664.4	4473.5	4463.0	4661.4	4947.8	4982.1	5073.1
32.5°	6221.7	6160.5	5954.7	5580.3	5249.1	5085.1	5222.3	5540.0	5557.9	5616.1
35°	7204.7	7142.0	6936.2	6552.8	6145.6	5772.7	5745.9	6103.9	6109.8	6171.0
37.5°	8193.7	8141.5	7922.2	7546.3	7145.0	6630.4	6381.3	6637.9	6645.3	6705.0
40°	8899.2	8921.6	8770.9	8480.1	8135.5	7573.1	7094.3	7206.2	7161.4	7261.4
42.5°	9504.8	9549.6	9418.3	9272.1	9072.2	8577.0	7977.4	7958.0	7886.4	7940.1
45°	10028.4	10065.7	9947.9	9913.5	9909.1	9561.5	8942.5	8826.1	8726.2	8715.7
47.5°	10220.8	10292.4	10343.1	10458.0	10681.7	10535.6	9940.4	9759.9	9648.0	9566.0
50°	10293.9	10370.0	10543.0	10877.2	11406.7	11469.3	10933.8	10731.0	10593.7	10444.6
52.5°	10195.5	10331.2	10563.9	11126.3	11894.5	12218.2	11887.0	11709.5	11552.9	11309.7
55°	9615.2	9751.0	10226.8	11123.3	12137.6	12743.2	12788.0	12708.9	12532.9	12149.5
57.5°	8392.1	8593.4	9346.7	10744.4	12133.1	13195.2	13671.0	13727.7	13530.8	12981.9
60°	6697.5	6970.5	7889.4	9904.6	11758.7	13439.8	14445.2	14728.6	14519.8	13802.3
62.5°	4673.4	4989.6	5859.2	8589.0	10902.5	13263.8	15010.5	15534.1	15376.0	14536.2
65°	2850.6	2952.0	3653.1	6758.7	9446.7	12526.9	15185.1	15969.7	15917.5	14985.2
67.5°	1898.9	1983.9	2185.3	4634.6	7333.0	11054.7	14767.4	15893.6	15908.5	14912.1
70°	1144.1	1217.2	1348.5	2695.4	4752.4	8750.1	13474.1	14924.0	15010.5	13935.0
72.5°	471.4	520.6	639.9	1221.7	2461.2	5553.4	10729.5	12813.3	13014.7	11717.0
75°	267.0	292.4	375.9	613.1	1068.0	2588.0	6499.1	9096.1	9393.0	8075.8
77.5°	177.5	189.4	243.1	396.8	601.1	883.1	2777.5	4739.0	5305.8	4410.8
80°	119.3	129.8	167.1	265.5	390.8	378.9	884.6	1755.7	2159.9	1515.5
82.5°	80.5	82.0	119.3	174.5	247.6	183.5	261.0	545.9	686.2	438.5
85°	46.2	44.7	88.0	101.4	110.4	76.1	79.1	164.1	214.8	185.0
87.5°	6.0	8.9	34.3	26.8	14.9	16.4	16.4	28.3	41.8	44.7
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°
2588.0	0°	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0
2591.0	2.5°	2591.0	2589.5	2585.0	2580.6	2570.1	2564.2	2567.1	2564.2	2562.7	2564.2
2610.4	5°	2610.4	2605.9	2594.0	2579.1	2558.2	2532.8	2516.4	2492.6	2470.2	2456.8
2662.6	7.5°	2662.6	2658.1	2641.7	2600.0	2532.8	2426.9	2330.0	2244.9	2180.8	2143.5
2746.1	10°	2746.1	2738.7	2713.3	2620.8	2444.8	2213.6	2021.2	1861.6	1757.2	1707.9
2844.6	12.5°	2844.6	2835.6	2790.9	2601.4	2277.8	1916.8	1651.3	1473.8	1376.8	1333.5
2958.0	15°	2960.9	2949.0	2861.0	2509.0	2034.6	1588.6	1345.5	1212.7	1150.1	1111.3
3102.6	17.5°	3105.6	3084.7	2913.2	2370.2	1770.6	1338.0	1157.5	1057.6	1002.4	965.1
3292.1	20°	3293.6	3259.3	2955.0	2204.7	1527.5	1179.9	1030.7	947.2	905.4	872.6
3560.6	22.5°	3556.1	3506.9	3005.7	2025.7	1355.9	1071.0	936.8	875.6	841.3	804.0
3935.0	25°	3881.3	3823.1	3068.3	1860.1	1238.1	977.0	868.1	817.4	777.2	733.9
4425.7	27.5°	4336.2	4231.8	3142.9	1724.4	1136.6	896.5	805.5	748.8	702.6	666.8
4982.1	30°	4843.4	4671.9	3208.6	1642.3	1044.2	821.9	723.5	666.8	623.5	598.2
5481.8	32.5°	5323.7	5091.0	3251.8	1606.5	960.6	736.9	634.0	572.8	540.0	532.5
5971.1	35°	5777.2	5469.9	3247.3	1572.2	886.0	651.9	545.9	483.3	457.9	462.4
6497.7	37.5°	6299.3	5874.1	3216.0	1518.5	824.9	574.3	469.9	414.7	392.3	393.8
7137.6	40°	6906.4	6341.0	3196.6	1417.1	757.8	502.7	407.2	362.5	346.1	340.1
7811.8	42.5°	7553.7	6793.0	3199.6	1302.2	674.2	438.5	364.0	326.7	311.8	307.3
8562.1	45°	8204.1	7224.1	3204.1	1182.9	586.2	389.3	332.6	301.3	292.4	286.4
9322.8	47.5°	8815.7	7591.0	3120.5	1054.6	499.7	352.0	307.3	286.4	278.9	271.5
10086.6	50°	9385.5	7835.7	2919.2	905.4	431.1	322.2	287.9	273.0	265.5	258.1
10778.7	52.5°	9828.5	7874.4	2586.5	751.8	383.4	299.8	276.0	262.5	253.6	246.1
11338.1	55°	10025.4	7631.3	2113.7	608.6	346.1	280.4	264.0	250.6	240.2	232.7
11778.1	57.5°	9974.7	7119.7	1648.3	489.3	310.3	261.0	249.1	240.2	228.2	216.3
12134.6	60°	9725.6	6435.0	1242.5	407.2	277.4	240.2	232.7	225.2	208.8	190.9
12271.9	62.5°	9294.5	5574.3	886.0	337.1	241.6	216.3	213.3	207.3	183.5	150.7
12069.0	65°	8635.2	4528.7	596.7	280.4	207.3	189.4	190.9	180.5	149.2	111.9
11326.1	67.5°	7671.6	3311.5	381.9	229.7	173.0	158.1	159.6	153.6	126.8	95.5
9918.0	70°	6444.0	2192.7	249.1	174.5	138.7	122.3	131.3	132.8	107.4	77.6
7611.9	72.5°	4724.1	1294.8	174.5	129.8	101.4	85.0	107.4	110.4	86.5	58.2
4579.4	75°	2692.4	614.6	131.3	94.0	62.6	59.7	83.5	83.5	59.7	38.8
1982.4	77.5°	1130.7	256.6	92.5	61.2	35.8	34.3	56.7	52.2	29.8	17.9
483.3	80°	326.7	114.9	49.2	29.8	14.9	13.4	22.4	16.4	7.5	3.0
183.5	82.5°	128.3	50.7	19.4	11.9	6.0	6.0	3.0	0.0	0.0	0.0
104.4	85°	76.1	20.9	8.9	4.5	1.5	0.0	0.0	0.0	0.0	0.0
22.4	87.5°	19.4	4.5	3.0	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°
2588.0
2570.1
2459.7
2145.0
1703.5
1329.1
1112.8
962.1
866.7
798.0
729.4
659.3
593.7
537.0
462.4
399.8
338.6
305.8
286.4
271.5
258.1
244.6
231.2
214.8
187.9
147.7
108.9
91.0
74.6
55.2
35.8
17.9
3.0
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