

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: P943116

Luminaire Tested: **GALN-SB7B-940-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943116  
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-SB7B-940-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

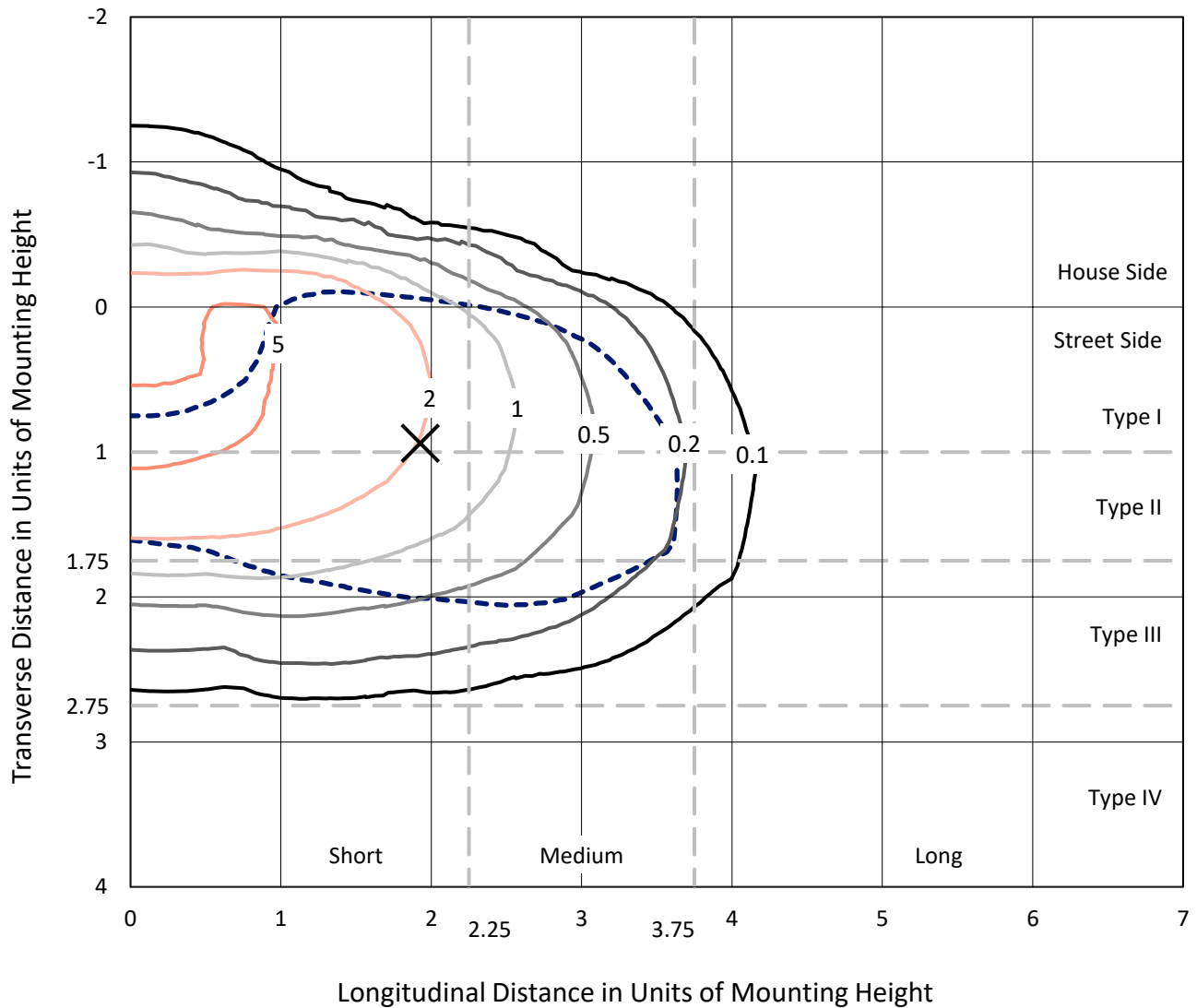
Lumens per Lamp: N/A  
Luminaire Lumens: 22759 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

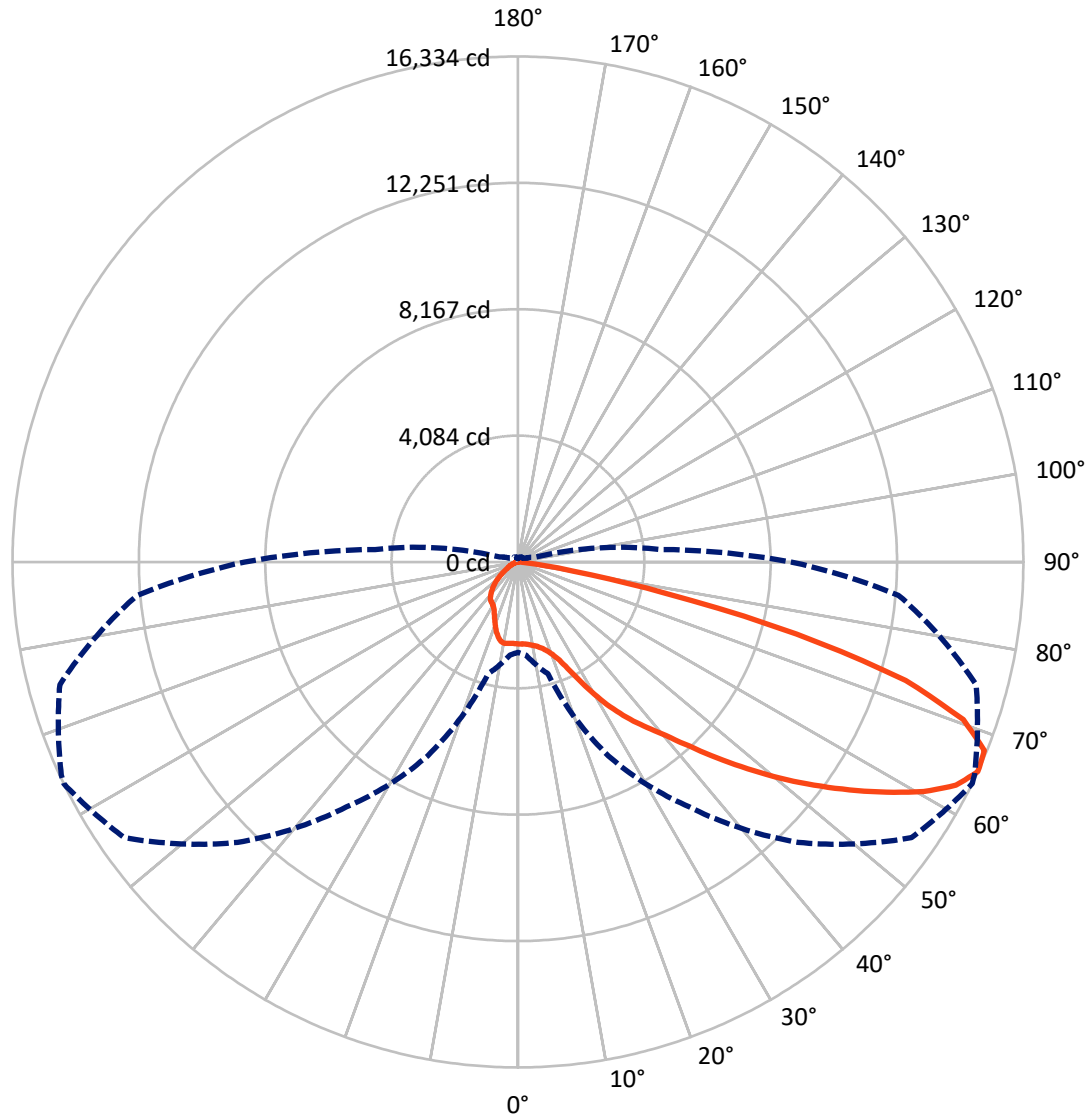
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	3043.6	0.0	3043.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	19715.4	0.0	19715.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	22759.0	0.0	22759.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.2	1.1
10°-20°	662.4	2.9
20°-30°	1255.2	5.5
30°-40°	2539.9	11.2
40°-50°	4326.8	19.0
50°-60°	5884.1	25.9
60°-70°	5525.4	24.3
70°-80°	2213.7	9.7
80°-90°	107.3	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°	22759.0	100.0
0°-180°	22759.0	100.0

**Coefficient of Utilization**



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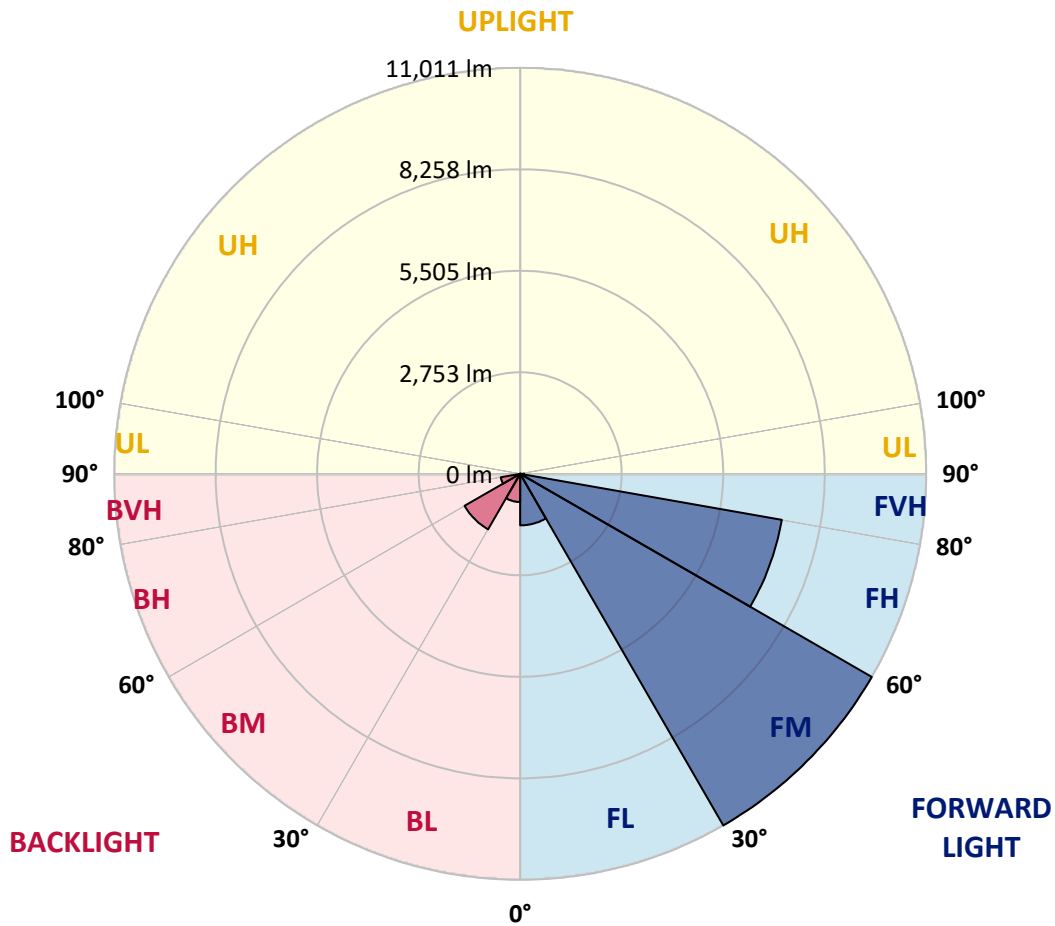
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1397.7	6.1			
FM (30°-60°)	11010.8	48.4			
FH (60°-80°)	7205.0	31.7			G3/7500
FVH (80°-90°)	102.0	0.4			G2/225
BL (0°-30°)	764.2	3.4	B2/1000		
BM (30°-60°)	1740.0	7.6	B2/2500		
BH (60°-80°)	534.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.2	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°	2647.1	2647.1	2647.1	2647.1	2647.1	2647.1	2647.1	2647.1	2647.1	2647.1
2.5°	2638.0	2656.3	2651.7	2647.1	2645.6	2648.6	2650.2	2648.6	2648.6	2648.6
5°	2587.6	2602.9	2602.9	2613.5	2628.8	2647.1	2660.8	2666.9	2666.9	2671.5
7.5°	2491.5	2503.7	2512.8	2547.9	2586.1	2634.9	2676.1	2700.5	2700.5	2717.3
10°	2425.9	2441.1	2456.4	2493.0	2547.9	2621.2	2691.4	2750.9	2750.9	2790.5
12.5°	2422.8	2438.1	2457.9	2497.6	2561.7	2639.5	2724.9	2813.4	2813.4	2871.4
15°	2454.9	2473.2	2491.5	2540.3	2609.0	2703.6	2795.1	2901.9	2901.9	2984.3
17.5°	2520.5	2544.9	2558.6	2607.4	2680.7	2785.9	2906.5	3025.5	3025.5	3121.6
20°	2650.2	2679.1	2683.7	2723.4	2795.1	2908.0	3051.4	3199.4	3199.4	3309.3
22.5°	2918.7	2959.9	2923.3	2943.1	3007.2	3120.1	3275.7	3464.9	3464.9	3590.0
25°	3391.7	3449.6	3355.0	3321.5	3348.9	3466.4	3661.7	3898.2	3898.2	3998.9
27.5°	4320.8	4246.1	4102.6	3962.3	3879.9	3947.0	4166.7	4459.7	4459.7	4557.3
30°	5341.5	5275.9	5082.1	4770.9	4575.6	4564.9	4767.8	5095.9	5095.9	5188.9
32.5°	6363.7	6301.2	6090.6	5707.7	5369.0	5201.1	5341.5	5684.8	5684.8	5744.3
35°	7369.2	7305.1	7094.6	6702.4	6285.9	5904.5	5877.0	6249.3	6249.3	6311.9
37.5°	8380.7	8327.3	8103.0	7718.6	7308.2	6781.8	6527.0	6797.0	6797.0	6858.1
40°	9102.4	9125.3	8971.2	8673.7	8321.2	7746.0	7256.3	7324.9	7324.9	7427.2
42.5°	9721.8	9767.6	9633.3	9483.8	9279.4	8772.8	8159.5	8066.4	8066.4	8121.4
45°	10257.4	10295.5	10175.0	10139.9	10135.3	9779.8	9146.6	8925.4	8925.4	8914.7
47.5°	10454.2	10527.4	10579.3	10696.8	10925.6	10776.1	10167.3	9868.3	9868.3	9784.4
50°	10528.9	10606.7	10783.7	11125.5	11667.1	11731.2	11183.5	10835.6	10835.6	10683.0
52.5°	10428.2	10567.1	10805.1	11380.3	12166.0	12497.1	12158.4	11816.6	11816.6	11567.9
55°	9834.7	9973.6	10460.3	11377.2	12414.7	13034.1	13079.9	12819.0	12819.0	12426.9
57.5°	8583.6	8789.6	9560.1	10989.7	12410.1	13496.4	13983.1	13839.7	13839.7	13278.3
60°	6850.4	7129.6	8069.5	10130.7	12027.2	13746.7	14775.0	14851.3	14851.3	14117.4
62.5°	4780.1	5103.5	5993.0	8785.0	11151.4	13566.6	15353.2	15727.0	15727.0	14868.1
65°	2915.6	3019.4	3736.5	6913.0	9662.3	12812.9	15531.7	16280.9	16280.9	15327.3
67.5°	1942.2	2029.2	2235.2	4740.4	7500.4	11307.0	15104.5	16271.7	16271.7	15252.5
70°	1170.2	1245.0	1379.2	2757.0	4860.9	8949.8	13781.7	15353.2	15353.2	14253.2
72.5°	482.1	532.5	654.5	1249.6	2517.4	5680.2	10974.4	13311.8	13311.8	11984.5
75°	273.1	299.0	384.5	627.1	1092.4	2647.1	6647.5	9607.4	9607.4	8260.2
77.5°	181.6	193.8	248.7	405.8	614.9	903.2	2840.9	5427.0	5427.0	4511.5
80°	122.1	132.7	170.9	271.6	399.7	387.5	904.7	2209.2	2209.2	1550.1
82.5°	82.4	83.9	122.1	178.5	253.3	187.7	267.0	701.8	701.8	448.6
85°	47.3	45.8	90.0	103.7	112.9	77.8	80.9	219.7	219.7	189.2
87.5°	6.1	9.2	35.1	27.5	15.3	16.8	16.8	42.7	42.7	45.8
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°
2647.1	0°	2647.1	2647.1	2647.1	2647.1	2647.1	2647.1	2647.1	2647.1	2647.1	2647.1
2650.2	2.5°	2650.2	2648.6	2644.1	2639.5	2628.8	2622.7	2625.7	2622.7	2621.2	2622.7
2670.0	5°	2670.0	2665.4	2653.2	2638.0	2616.6	2590.7	2573.9	2549.5	2526.6	2512.8
2723.4	7.5°	2723.4	2718.8	2702.0	2659.3	2590.7	2482.3	2383.2	2296.2	2230.6	2192.4
2808.8	10°	2808.8	2801.2	2775.3	2680.7	2500.6	2264.2	2067.3	1904.1	1797.3	1746.9
2909.5	12.5°	2909.5	2900.4	2854.6	2660.8	2329.8	1960.5	1689.0	1507.4	1408.2	1364.0
3025.5	15°	3028.5	3016.3	2926.3	2566.2	2081.1	1624.9	1376.2	1240.4	1176.3	1136.7
3173.5	17.5°	3176.5	3155.2	2979.7	2424.4	1811.0	1368.6	1184.0	1081.7	1025.3	987.1
3367.2	20°	3368.8	3333.7	3022.4	2255.0	1562.3	1206.8	1054.3	968.8	926.1	892.5
3641.9	22.5°	3637.3	3586.9	3074.3	2071.9	1386.9	1095.5	958.1	895.6	860.5	822.4
4024.8	25°	3969.9	3910.4	3138.4	1902.6	1266.3	999.3	888.0	836.1	794.9	750.6
4526.8	27.5°	4435.2	4328.4	3214.7	1763.7	1162.6	917.0	823.9	765.9	718.6	682.0
5095.9	30°	4954.0	4778.5	3281.8	1679.8	1068.0	840.7	740.0	682.0	637.7	611.8
5607.0	32.5°	5445.3	5207.3	3326.0	1643.2	982.6	753.7	648.4	585.9	552.3	544.7
6107.4	35°	5909.1	5594.8	3321.5	1608.1	906.3	666.7	558.4	494.3	468.4	473.0
6646.0	37.5°	6443.1	6008.2	3289.4	1553.2	843.7	587.4	480.6	424.1	401.3	402.8
7300.5	40°	7064.0	6485.8	3269.6	1449.4	775.1	514.2	416.5	370.7	354.0	347.9
7990.1	42.5°	7726.2	6948.1	3272.6	1331.9	689.6	448.6	372.3	334.1	318.9	314.3
8757.6	45°	8391.4	7389.0	3277.2	1209.9	599.6	398.2	340.2	308.2	299.0	292.9
9535.7	47.5°	9017.0	7764.3	3191.8	1078.7	511.1	360.1	314.3	292.9	285.3	277.7
10316.9	50°	9599.8	8014.6	2985.8	926.1	440.9	329.6	294.5	279.2	271.6	263.9
11024.8	52.5°	10052.9	8054.2	2645.6	769.0	392.1	306.7	282.3	268.5	259.4	251.7
11596.9	55°	10254.3	7805.5	2161.9	622.5	354.0	286.8	270.1	256.3	245.6	238.0
12047.0	57.5°	10202.4	7282.2	1685.9	500.4	317.3	267.0	254.8	245.6	233.4	221.2
12411.7	60°	9947.6	6581.9	1270.9	416.5	283.8	245.6	238.0	230.4	213.6	195.3
12552.0	62.5°	9506.7	5701.6	906.3	344.8	247.2	221.2	218.2	212.1	187.7	154.1
12344.5	65°	8832.3	4632.1	610.3	286.8	212.1	193.8	195.3	184.6	152.6	114.4
11584.7	67.5°	7846.7	3387.1	390.6	235.0	177.0	161.7	163.3	157.1	129.7	97.6
10144.5	70°	6591.1	2242.8	254.8	178.5	141.9	125.1	134.3	135.8	109.9	79.3
7785.7	72.5°	4831.9	1324.3	178.5	132.7	103.7	87.0	109.9	112.9	88.5	59.5
4683.9	75°	2753.9	628.6	134.3	96.1	64.1	61.0	85.4	85.4	61.0	39.7
2027.7	77.5°	1156.5	262.4	94.6	62.6	36.6	35.1	58.0	53.4	30.5	18.3
494.3	80°	334.1	117.5	50.3	30.5	15.3	13.7	22.9	16.8	7.6	3.1
187.7	82.5°	131.2	51.9	19.8	12.2	6.1	6.1	3.1	0.0	0.0	0.0
106.8	85°	77.8	21.4	9.2	4.6	1.5	0.0	0.0	0.0	0.0	0.0
22.9	87.5°	19.8	4.6	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

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<u>180°</u>
2647.1
2628.8
2515.9
2194.0
1742.4
1359.4
1138.2
984.1
886.4
816.3
746.1
674.4
607.2
549.3
473.0
408.9
346.3
312.8
292.9
277.7
263.9
250.2
236.5
219.7
192.2
151.0
111.4
93.1
76.3
56.5
36.6
18.3
3.1
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