

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: P949990

Luminaire Tested: **GALN-SB4C-827-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949990  
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-SB4C-827-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

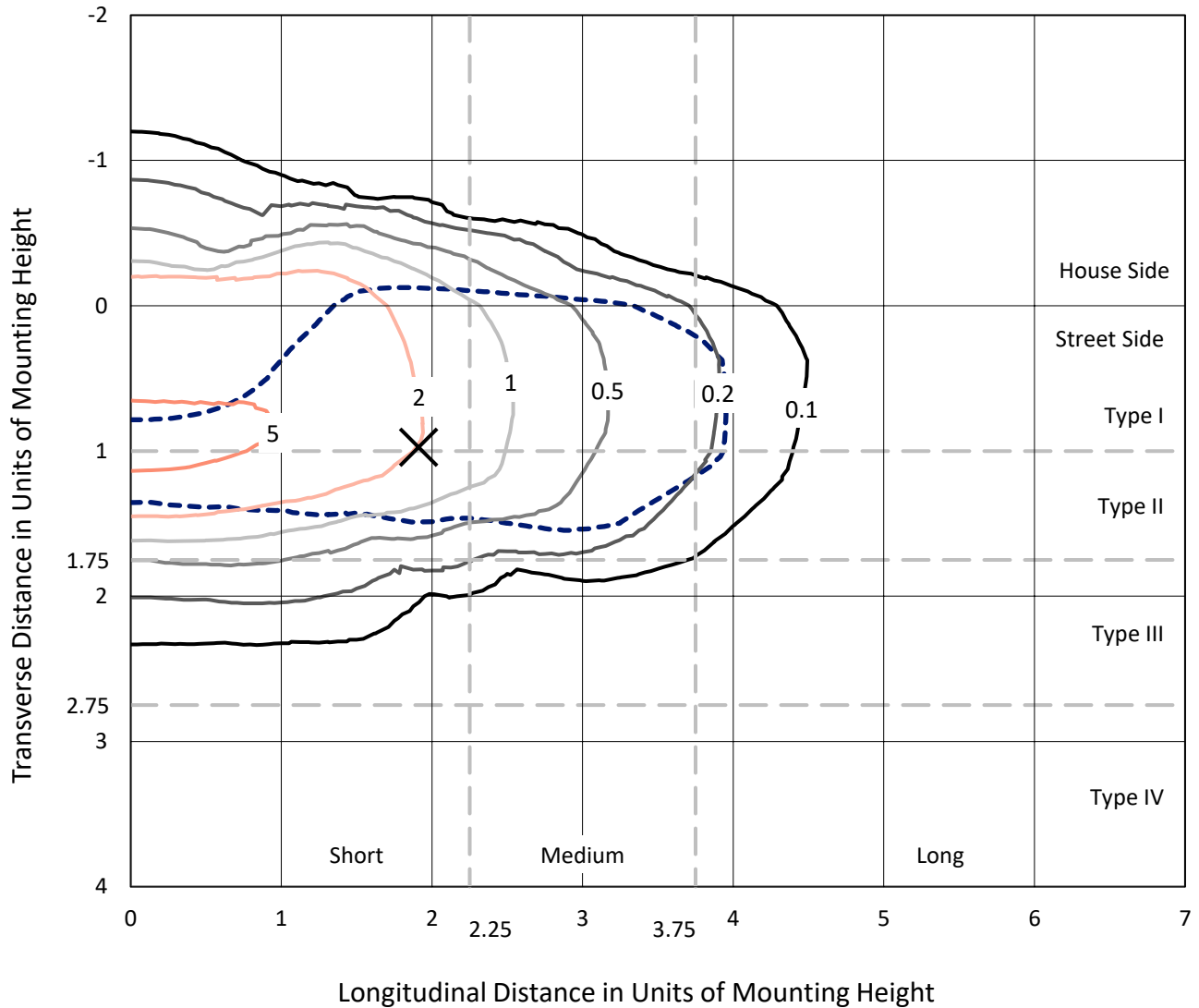
Lumens per Lamp: N/A  
Luminaire Lumens: 19946 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

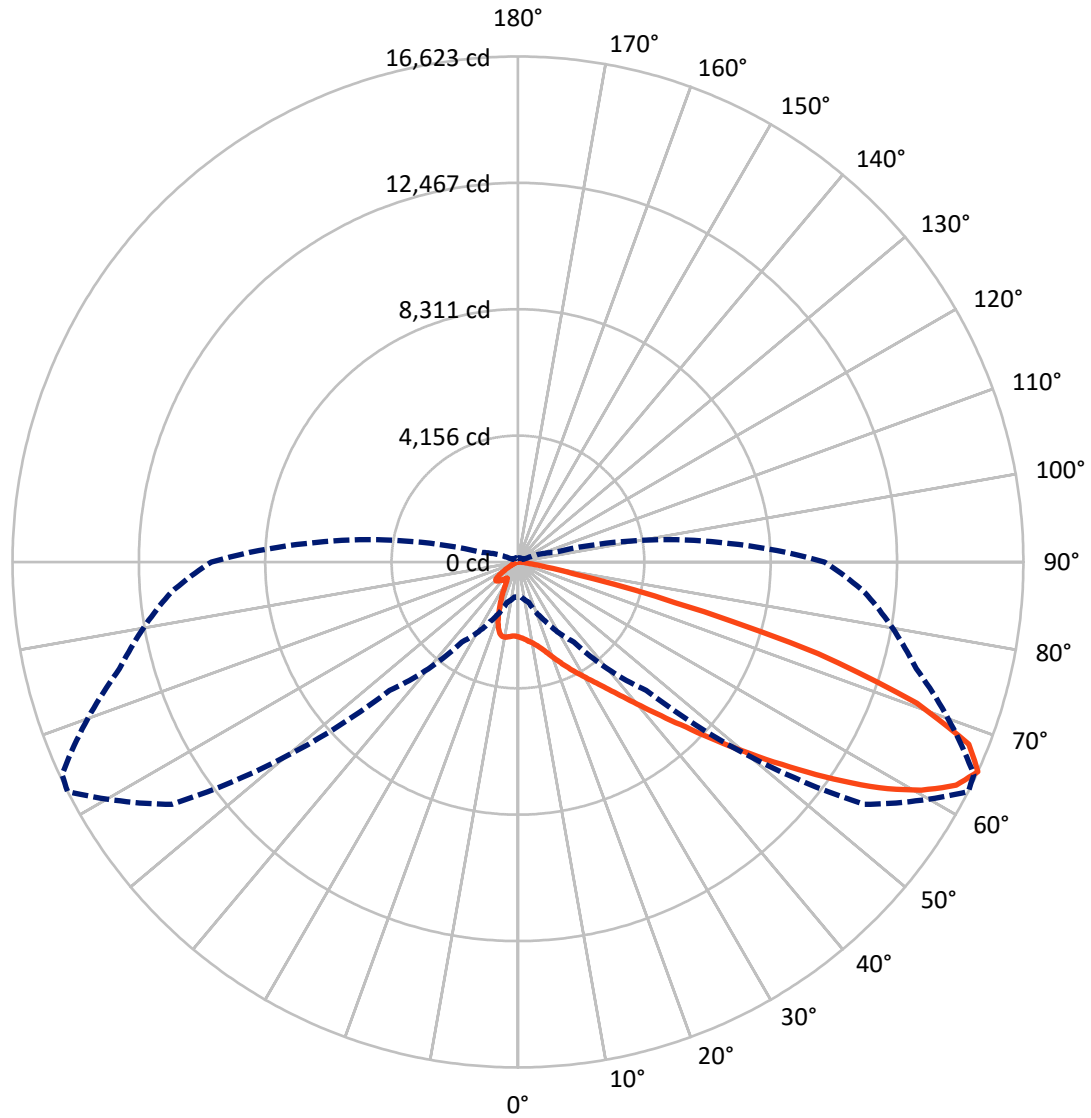
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type 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
<b>House Side</b>	Lumens	2931.9	0.0	2931.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	17014.1	0.0	17014.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	19946.0	0.0	19946.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.9	1.2
10°-20°	643.5	3.2
20°-30°	1120.6	5.6
30°-40°	2019.7	10.1
40°-50°	4005.8	20.1
50°-60°	5456.5	27.4
60°-70°	4355.4	21.8
70°-80°	1970.9	9.9
80°-90°	141.7	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°	19946.0	100.0
0°-180°	19946.0	100.0

**Coefficient of Utilization**



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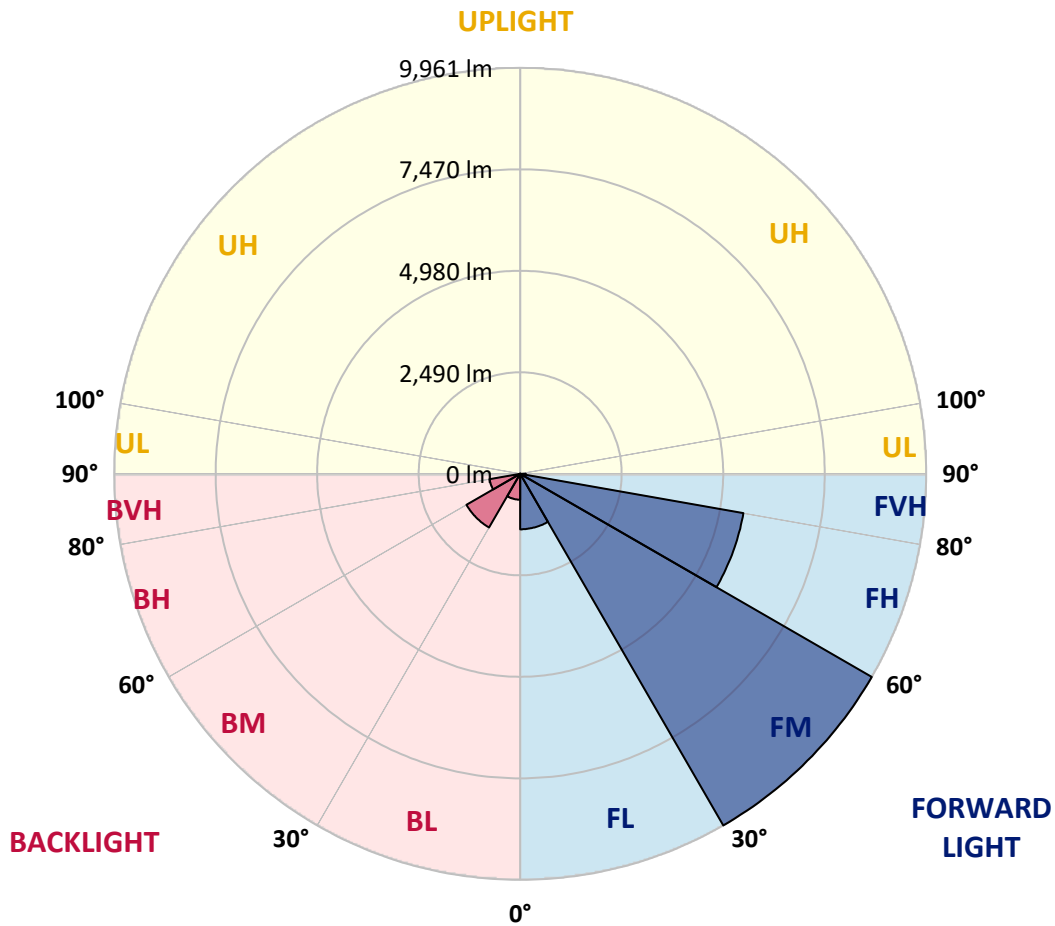
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1361.6	6.8			
FM (30°-60°)	9960.5	49.9			
FH (60°-80°)	5560.8	27.9			G3/7500
FVH (80°-90°)	131.2	0.7			G2/225
BL (0°-30°)	634.5	3.2	B2/1000		
BM (30°-60°)	1521.5	7.6	B2/2500		
BH (60°-80°)	765.4	3.8	B2/1000		G2/1000
BVH (80°-90°)	10.5	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°	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7
2.5°	2519.3	2512.5	2522.1	2518.0	2515.2	2509.7	2507.0	2504.3	2498.8	2494.6
5°	2526.2	2522.1	2531.7	2539.9	2548.2	2556.4	2560.5	2566.0	2560.5	2549.5
7.5°	2468.6	2465.8	2486.4	2511.1	2548.2	2579.7	2614.0	2633.2	2634.6	2630.5
10°	2464.5	2457.6	2478.2	2508.4	2556.4	2612.7	2673.0	2714.2	2719.7	2737.5
12.5°	2529.0	2522.1	2550.9	2583.8	2633.2	2692.2	2766.3	2824.0	2832.2	2856.9
15°	2637.4	2627.7	2660.7	2703.2	2766.3	2833.6	2911.8	2963.9	2970.8	3001.0
17.5°	2763.6	2754.0	2792.4	2837.7	2906.3	2998.2	3088.8	3146.4	3154.7	3173.9
20°	2925.5	2913.2	2943.4	2984.5	3057.2	3167.0	3275.4	3357.8	3356.4	3356.4
22.5°	3113.5	3094.3	3120.4	3153.3	3221.9	3355.0	3499.1	3596.5	3596.5	3558.1
25°	3315.2	3296.0	3324.8	3355.0	3415.4	3566.3	3735.1	3855.9	3861.3	3795.5
27.5°	3567.7	3543.0	3565.0	3600.6	3636.3	3790.0	3990.3	4130.3	4133.0	4031.5
30°	4053.5	3983.5	3914.9	3876.4	3892.9	4045.2	4259.3	4414.3	4428.1	4288.1
32.5°	4942.6	4928.9	4687.4	4371.8	4207.1	4319.7	4559.8	4746.4	4754.6	4574.9
35°	6324.4	6308.0	5919.6	5318.6	4782.1	4687.4	4924.8	5145.7	5140.2	4937.1
37.5°	7973.8	7958.7	7446.9	6642.8	5774.2	5243.1	5395.5	5627.4	5661.7	5395.5
40°	9383.1	9326.8	9003.0	8227.7	7091.5	6165.3	6065.1	6218.8	6254.5	5938.8
42.5°	10450.6	10402.6	10237.9	9753.5	8686.0	7529.2	6854.1	6913.1	6952.9	6574.2
45°	11003.6	10992.6	11058.5	11013.2	10310.7	9203.3	7982.0	7736.4	7751.5	7278.1
47.5°	11081.8	11076.3	11376.8	11802.2	11707.5	11091.4	9429.7	8762.8	8709.3	8072.6
50°	10620.8	10609.8	11186.1	11983.4	12640.6	12677.7	11073.6	9919.6	9801.6	8894.6
52.5°	9148.4	9145.7	10092.5	11419.4	12968.6	14066.3	12698.3	11190.2	10992.6	9764.5
55°	7039.3	7090.1	8175.5	9743.9	12370.3	14734.6	14156.9	12600.8	12297.6	10640.0
57.5°	4986.5	5060.6	6133.7	7530.6	10515.1	14339.4	15143.5	14014.2	13687.6	11512.7
60°	2678.5	2744.4	3818.8	5486.0	7822.9	12865.7	15663.6	15240.9	14932.2	12341.5
62.5°	1595.9	1617.8	2062.4	3541.6	5291.2	9829.0	15442.7	16175.4	15921.5	13037.2
65°	1145.8	1149.9	1373.6	2162.6	3212.3	5971.8	13893.4	16622.7	16544.5	13561.4
67.5°	964.7	961.9	1055.2	1436.7	2188.6	2991.4	10648.2	15990.2	16322.2	13893.4
70°	827.4	831.5	941.3	1052.5	1645.3	1693.3	5293.9	13922.3	14630.3	13981.3
72.5°	616.1	629.8	731.4	959.2	1241.8	1165.0	1827.8	10323.0	11603.3	13173.0
75°	435.0	441.8	514.6	806.8	926.2	848.0	933.1	5336.5	6977.6	10099.3
77.5°	334.8	347.2	389.7	564.0	912.5	595.5	570.8	1847.0	2837.7	6100.8
80°	181.1	203.1	281.3	407.5	640.8	421.3	282.7	735.5	961.9	2852.8
82.5°	93.3	104.3	196.2	293.6	365.0	367.7	140.0	306.0	396.6	880.9
85°	37.0	45.3	131.7	161.9	188.0	181.1	63.1	123.5	142.7	244.3
87.5°	8.2	13.7	48.0	37.0	35.7	38.4	15.1	28.8	27.4	28.8
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°
2461.7	0°	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7
2478.2	2.5°	2476.8	2471.3	2456.2	2439.8	2420.5	2409.6	2402.7	2401.3	2391.7	2384.9
2533.1	5°	2518.0	2512.5	2483.7	2449.4	2412.3	2383.5	2356.1	2331.4	2295.7	2288.8
2612.7	7.5°	2600.3	2585.2	2538.6	2491.9	2421.9	2338.2	2236.7	2120.0	2015.8	1984.2
2718.3	10°	2701.8	2681.3	2622.3	2539.9	2384.9	2157.1	1911.5	1683.7	1502.6	1451.8
2843.2	12.5°	2817.1	2799.3	2721.1	2568.7	2229.8	1816.8	1440.8	1158.1	982.5	938.6
2976.3	15°	2954.3	2928.3	2819.9	2524.8	1952.6	1380.4	989.4	821.9	758.8	750.6
3128.6	17.5°	3099.8	3057.2	2907.7	2367.0	1579.4	981.1	764.3	716.3	688.8	680.6
3282.3	20°	3232.9	3178.0	2959.8	2128.3	1180.1	764.3	684.7	653.2	628.5	618.9
3436.0	22.5°	3366.0	3287.8	2959.8	1803.1	885.1	677.9	628.5	599.6	570.8	558.5
3600.6	25°	3504.6	3400.3	2907.7	1440.8	712.2	621.6	574.9	543.4	518.7	503.6
3757.1	27.5°	3639.1	3495.0	2788.3	1097.8	634.0	572.2	525.5	495.4	472.0	461.1
3927.2	30°	3766.7	3588.3	2620.9	832.9	583.2	524.2	480.3	454.2	430.9	419.9
4148.1	32.5°	3939.6	3706.3	2442.5	683.4	539.3	478.9	439.1	414.4	393.8	385.6
4434.9	35°	4179.7	3880.6	2288.8	671.0	502.2	441.8	402.1	378.7	358.1	351.3
4805.4	37.5°	4520.0	4161.9	2207.9	753.3	472.0	408.9	371.9	347.2	328.0	322.5
5276.1	40°	4939.9	4543.3	2251.8	835.7	451.5	380.1	344.4	319.7	303.3	296.4
5816.7	42.5°	5438.0	5014.0	2494.6	898.8	437.7	355.4	318.3	290.9	279.9	277.2
6430.1	45°	6010.2	5531.3	2866.5	966.0	415.8	332.1	292.3	271.7	263.5	262.1
7097.0	47.5°	6660.6	6099.4	3297.4	1049.7	393.8	310.1	271.7	258.0	251.1	248.4
7792.7	50°	7305.6	6671.6	3740.6	1096.4	376.0	289.5	255.2	244.3	238.8	237.4
8528.2	52.5°	7980.7	7260.3	4098.7	1052.5	360.9	273.1	241.5	233.3	227.8	226.4
9206.0	55°	8624.2	7736.4	4160.5	893.3	330.7	256.6	226.4	222.3	215.4	215.4
9893.5	57.5°	9178.6	7975.2	3724.1	655.9	300.5	231.9	211.3	207.2	201.7	200.3
10513.7	60°	9687.7	7906.6	2874.7	441.8	267.6	207.2	192.1	189.4	183.9	177.0
11053.0	62.5°	9974.5	7604.7	1966.4	288.2	234.6	181.1	170.2	168.8	156.4	142.7
11452.3	65°	10082.9	6984.5	1226.7	209.9	196.2	155.1	146.8	144.1	126.2	111.1
11678.7	67.5°	9988.2	5963.5	618.9	166.0	155.1	129.0	120.8	120.8	108.4	94.7
11665.0	70°	9609.5	4470.6	260.7	133.1	119.4	98.8	98.8	104.3	91.9	76.8
11059.9	72.5°	8787.5	3007.8	138.6	101.5	89.2	70.0	81.0	85.1	72.7	57.6
9052.4	75°	6985.8	1834.6	96.1	75.5	56.3	49.4	61.7	64.5	49.4	38.4
6206.4	77.5°	4778.0	1053.8	64.5	48.0	35.7	28.8	42.5	39.8	26.1	17.8
2393.1	80°	2098.1	439.1	37.0	22.0	13.7	11.0	15.1	11.0	8.2	5.5
328.0	82.5°	245.6	102.9	13.7	8.2	5.5	2.7	1.4	0.0	0.0	0.0
100.2	85°	50.8	12.3	6.9	2.7	1.4	0.0	0.0	0.0	0.0	0.0
17.8	87.5°	9.6	2.7	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

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<u>180°</u>
2461.7
2391.7
2286.1
1969.1
1432.6
926.2
742.4
676.5
613.4
551.6
498.1
461.1
421.3
385.6
351.3
321.1
295.0
277.2
260.7
248.4
237.4
226.4
214.1
199.0
175.6
140.0
109.8
93.3
75.5
57.6
37.0
19.2
5.5
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