

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: P951607

Luminaire Tested: **GALN-SB5C-950-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951607  
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-SB5C-950-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

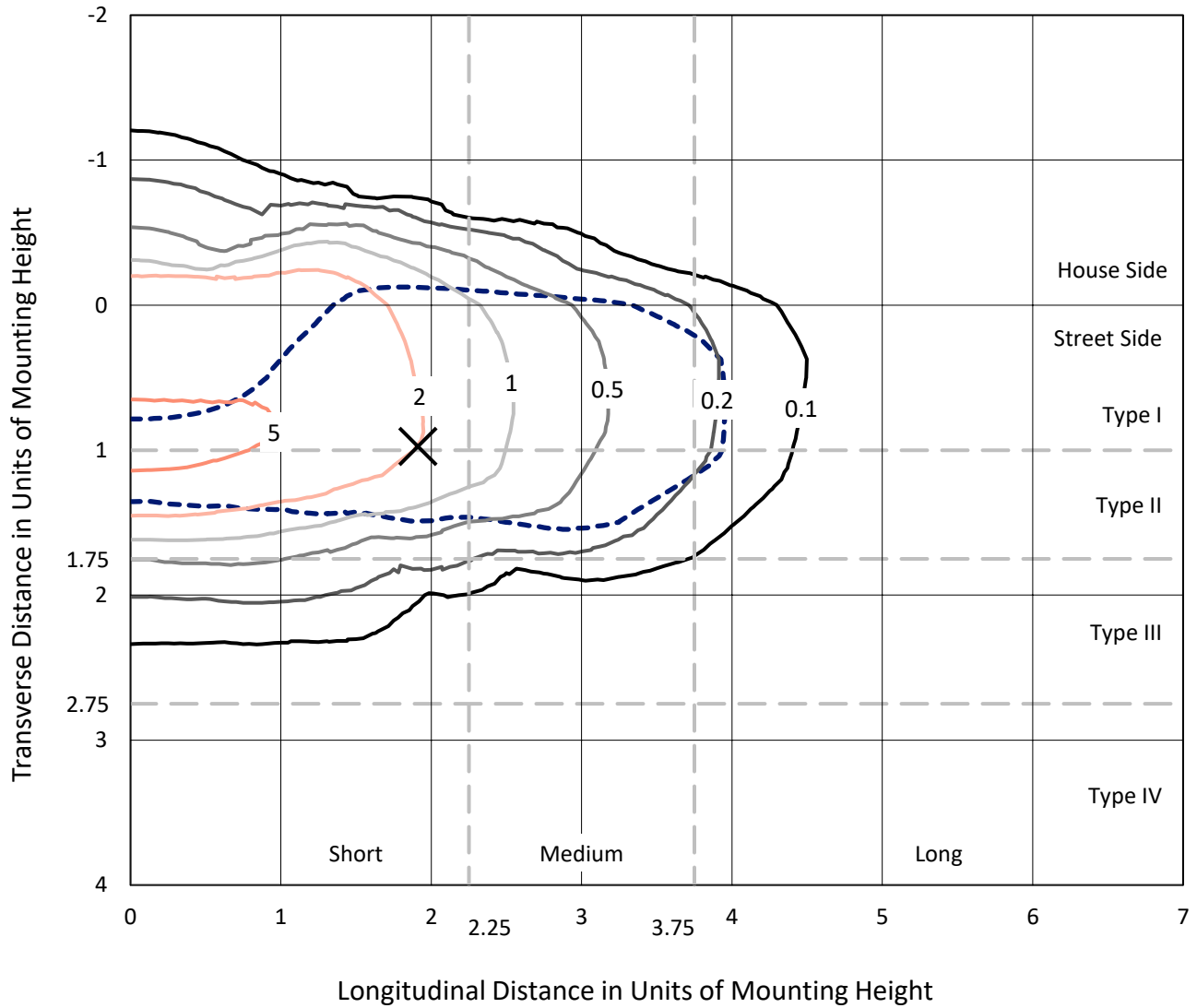
Lumens per Lamp: N/A  
Luminaire Lumens: 20113 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

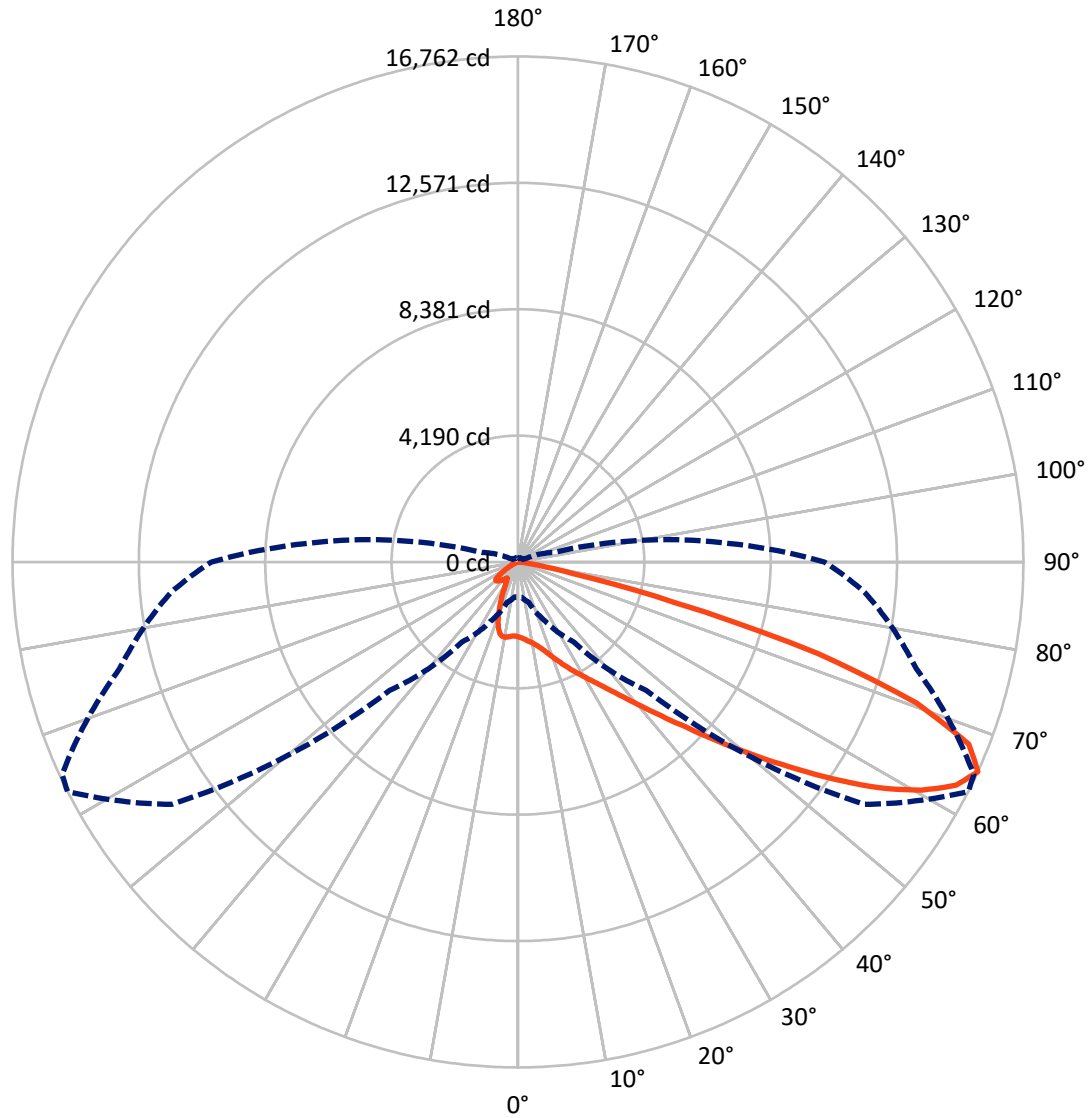
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type 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	2956.5	0.0	2956.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	17156.6	0.0	17156.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	20113.0	0.0	20113.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.9	1.2
10°-20°	648.9	3.2
20°-30°	1130.0	5.6
30°-40°	2036.6	10.1
40°-50°	4039.3	20.1
50°-60°	5502.2	27.4
60°-70°	4391.8	21.8
70°-80°	1987.4	9.9
80°-90°	142.9	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°	20113.0	100.0
0°-180°	20113.0	100.0

**Coefficient of Utilization**



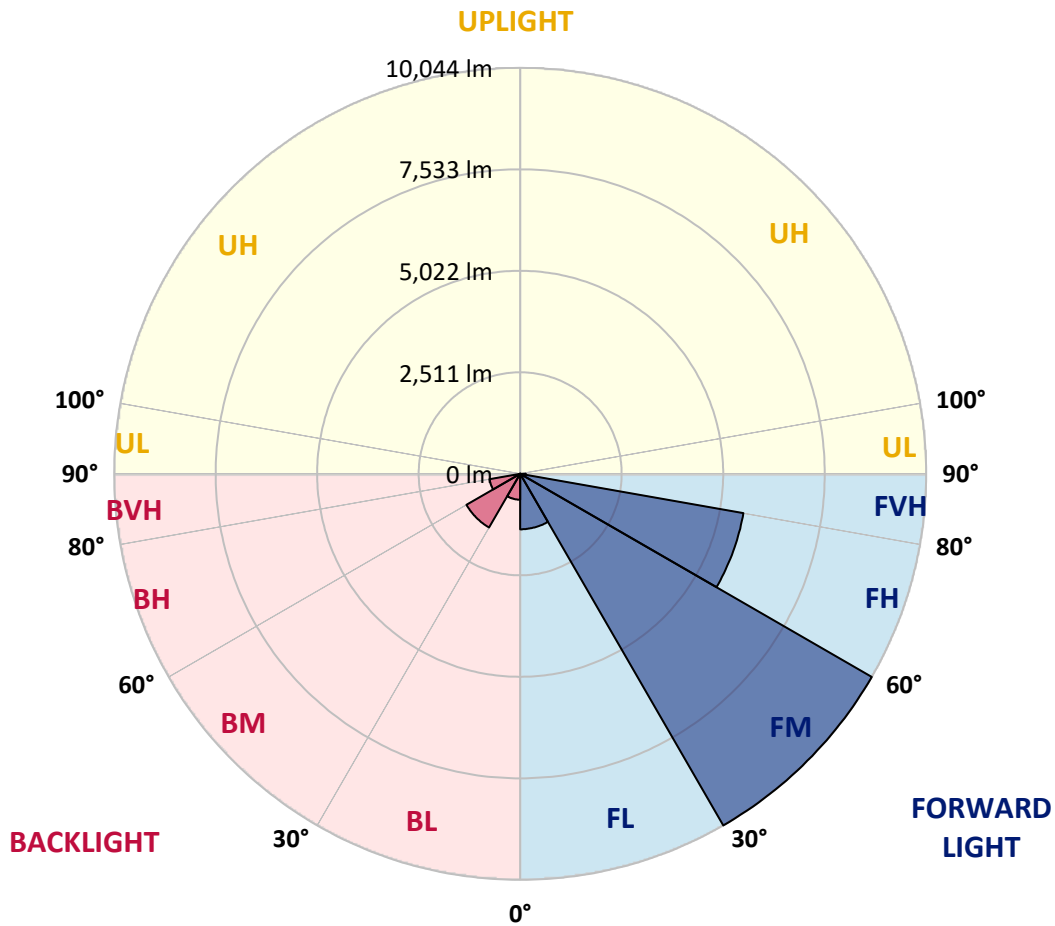
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1373.0	6.8			
FM (30°-60°)	10043.9	49.9			
FH (60°-80°)	5607.4	27.9			G3/7500
FVH (80°-90°)	132.3	0.7			G2/225
BL (0°-30°)	639.8	3.2	B2/1000		
BM (30°-60°)	1534.2	7.6	B2/2500		
BH (60°-80°)	771.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	10.6	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°	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3
2.5°	2540.4	2533.5	2543.2	2539.1	2536.3	2530.8	2528.0	2525.2	2519.7	2515.5
5°	2547.4	2543.2	2552.9	2561.2	2569.5	2577.8	2581.9	2587.5	2581.9	2570.9
7.5°	2489.2	2486.5	2507.2	2532.1	2569.5	2601.3	2635.9	2655.3	2656.7	2652.5
10°	2485.1	2478.2	2498.9	2529.4	2577.8	2634.5	2695.4	2736.9	2742.5	2760.4
12.5°	2550.1	2543.2	2572.3	2605.5	2655.3	2714.8	2789.5	2847.6	2855.9	2880.8
15°	2659.4	2649.7	2683.0	2725.9	2789.5	2857.3	2936.2	2988.8	2995.7	3026.1
17.5°	2786.7	2777.0	2815.8	2861.5	2930.6	3023.3	3114.7	3172.8	3181.1	3200.5
20°	2950.0	2937.6	2968.0	3009.5	3082.8	3193.5	3302.8	3385.9	3384.5	3384.5
22.5°	3139.6	3120.2	3146.5	3179.7	3248.9	3383.1	3528.4	3626.6	3626.6	3587.9
25°	3343.0	3323.6	3352.7	3383.1	3444.0	3596.2	3766.4	3888.1	3893.7	3827.3
27.5°	3597.6	3572.7	3594.8	3630.8	3666.8	3821.7	4023.7	4164.9	4167.6	4065.3
30°	4087.4	4016.8	3947.6	3908.9	3925.5	4079.1	4294.9	4451.3	4465.1	4324.0
32.5°	4984.0	4970.2	4726.7	4408.4	4242.4	4355.8	4598.0	4786.2	4794.5	4613.2
35°	6377.4	6360.8	5969.2	5363.1	4822.1	4726.7	4966.0	5188.8	5183.3	4978.5
37.5°	8040.6	8025.4	7509.2	6698.4	5822.5	5287.0	5440.6	5674.5	5709.1	5440.6
40°	9461.6	9404.9	9078.3	8296.6	7150.9	6216.9	6115.9	6270.8	6306.8	5988.6
42.5°	10538.1	10489.7	10323.6	9835.2	8758.7	7592.3	6911.5	6971.0	7011.1	6629.2
45°	11095.7	11084.7	11151.1	11105.4	10397.0	9280.4	8048.9	7801.2	7816.4	7339.0
47.5°	11174.6	11169.1	11472.1	11901.0	11805.6	11184.3	9508.7	8836.2	8782.2	8140.2
50°	10709.7	10698.6	11279.8	12083.7	12746.5	12783.8	11166.3	10002.6	9883.6	8969.0
52.5°	9225.0	9222.2	10177.0	11515.0	13077.2	14184.1	12804.6	11283.9	11084.7	9846.3
55°	7098.3	7149.5	8244.0	9825.5	12473.9	14858.0	14275.4	12706.3	12400.6	10729.1
57.5°	5028.3	5103.0	6185.1	7593.6	10603.1	14459.5	15270.3	14131.5	13802.2	11609.1
60°	2700.9	2767.4	3850.8	5532.0	7888.4	12973.4	15794.7	15368.5	15057.2	12444.8
62.5°	1609.2	1631.4	2079.7	3571.3	5335.5	9911.3	15571.9	16310.8	16054.9	13146.4
65°	1155.4	1159.5	1385.1	2180.7	3239.2	6021.8	14009.8	16761.9	16683.0	13674.9
67.5°	972.7	970.0	1064.1	1448.7	2207.0	3016.4	10737.4	16124.0	16458.9	14009.8
70°	834.4	838.5	949.2	1061.3	1659.0	1707.5	5338.2	14038.8	14752.8	14098.3
72.5°	621.3	635.1	737.5	967.2	1252.2	1174.7	1843.1	10409.4	11700.4	13283.3
75°	438.6	445.5	518.9	813.6	934.0	855.1	940.9	5381.1	7036.0	10183.9
77.5°	337.6	350.1	393.0	568.7	920.1	600.5	575.6	1862.4	2861.5	6151.8
80°	182.6	204.8	283.7	411.0	646.2	424.8	285.0	741.7	970.0	2876.7
82.5°	94.1	105.2	197.9	296.1	368.1	370.8	141.1	308.6	399.9	888.3
85°	37.4	45.7	132.8	163.3	189.6	182.6	63.6	124.5	143.9	246.3
87.5°	8.3	13.8	48.4	37.4	36.0	38.7	15.2	29.1	27.7	29.1
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°
2482.3	0°	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3	2482.3
2498.9	2.5°	2497.5	2492.0	2476.8	2460.2	2440.8	2429.7	2422.8	2421.4	2411.8	2404.8
2554.3	5°	2539.1	2533.5	2504.5	2469.9	2432.5	2403.5	2375.8	2350.9	2314.9	2308.0
2634.5	7.5°	2622.1	2606.9	2559.8	2512.8	2442.2	2357.8	2255.4	2137.8	2032.6	2000.8
2741.1	10°	2724.5	2703.7	2644.2	2561.2	2404.8	2175.1	1927.5	1697.8	1515.1	1463.9
2867.0	12.5°	2840.7	2822.7	2743.8	2590.3	2248.5	1832.0	1452.9	1167.8	990.7	946.4
3001.2	15°	2979.1	2952.8	2843.5	2546.0	1969.0	1392.0	997.6	828.8	765.2	756.9
3154.8	17.5°	3125.7	3082.8	2932.0	2386.9	1592.6	989.3	770.7	722.3	694.6	686.3
3309.8	20°	3260.0	3204.6	2984.6	2146.1	1190.0	770.7	690.5	658.6	633.7	624.0
3464.7	22.5°	3394.2	3315.3	2984.6	1818.2	892.5	683.5	633.7	604.7	575.6	563.2
3630.8	25°	3533.9	3428.8	2932.0	1452.9	718.1	626.8	579.8	547.9	523.0	507.8
3788.5	27.5°	3669.5	3524.2	2811.6	1106.9	639.3	577.0	529.9	499.5	476.0	464.9
3960.1	30°	3798.2	3618.3	2642.8	839.9	588.1	528.6	484.3	458.0	434.5	423.4
4182.9	32.5°	3972.5	3737.3	2463.0	689.1	543.8	482.9	442.8	417.9	397.1	388.8
4472.1	35°	4214.7	3913.1	2308.0	676.6	506.4	445.5	405.4	381.9	361.1	354.2
4845.7	37.5°	4557.8	4196.7	2226.3	759.6	476.0	412.3	375.0	350.1	330.7	325.2
5320.3	40°	4981.3	4581.4	2270.6	842.7	455.2	383.3	347.3	322.4	305.8	298.9
5865.4	42.5°	5483.5	5056.0	2515.5	906.3	441.4	358.4	321.0	293.3	282.3	279.5
6483.9	45°	6060.5	5577.6	2890.5	974.1	419.3	334.9	294.7	274.0	265.7	264.3
7156.4	47.5°	6716.4	6150.5	3325.0	1058.5	397.1	312.7	274.0	260.1	253.2	250.4
7857.9	50°	7366.7	6727.5	3771.9	1105.6	379.1	292.0	257.4	246.3	240.8	239.4
8599.6	52.5°	8047.5	7321.1	4133.1	1061.3	363.9	275.4	243.5	235.2	229.7	228.3
9283.1	55°	8696.4	7801.2	4195.3	900.8	333.5	258.7	228.3	224.2	217.2	217.2
9976.3	57.5°	9255.4	8042.0	3755.3	661.4	303.0	233.8	213.1	208.9	203.4	202.0
10601.8	60°	9768.8	7972.8	2898.8	445.5	269.8	208.9	193.7	190.9	185.4	178.5
11145.6	62.5°	10058.0	7668.4	1982.8	290.6	236.6	182.6	171.6	170.2	157.7	143.9
11548.2	65°	10167.3	7042.9	1237.0	211.7	197.9	156.4	148.1	145.3	127.3	112.1
11776.5	67.5°	10071.8	6013.5	624.0	167.4	156.4	130.1	121.8	121.8	109.3	95.5
11762.7	70°	9689.9	4508.0	262.9	134.2	120.4	99.6	99.6	105.2	92.7	77.5
11152.5	72.5°	8861.1	3033.0	139.8	102.4	89.9	70.6	81.6	85.8	73.3	58.1
9128.1	75°	7044.3	1850.0	96.9	76.1	56.7	49.8	62.3	65.0	49.8	38.7
6258.4	77.5°	4818.0	1062.7	65.0	48.4	36.0	29.1	42.9	40.1	26.3	18.0
2413.1	80°	2115.6	442.8	37.4	22.1	13.8	11.1	15.2	11.1	8.3	5.5
330.7	82.5°	247.7	103.8	13.8	8.3	5.5	2.8	1.4	0.0	0.0	0.0
101.0	85°	51.2	12.5	6.9	2.8	1.4	0.0	0.0	0.0	0.0	0.0
18.0	87.5°	9.7	2.8	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>
2482.3
2411.8
2305.2
1985.6
1444.6
934.0
748.6
682.2
618.5
556.2
502.3
464.9
424.8
388.8
354.2
323.8
297.5
279.5
262.9
250.4
239.4
228.3
215.9
200.6
177.1
141.1
110.7
94.1
76.1
58.1
37.4
19.4
5.5
0.0
0.0
0.0
0.0

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