

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: P956521

Luminaire Tested: **GALN-SB9A-927-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956521  
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-SB9A-927-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

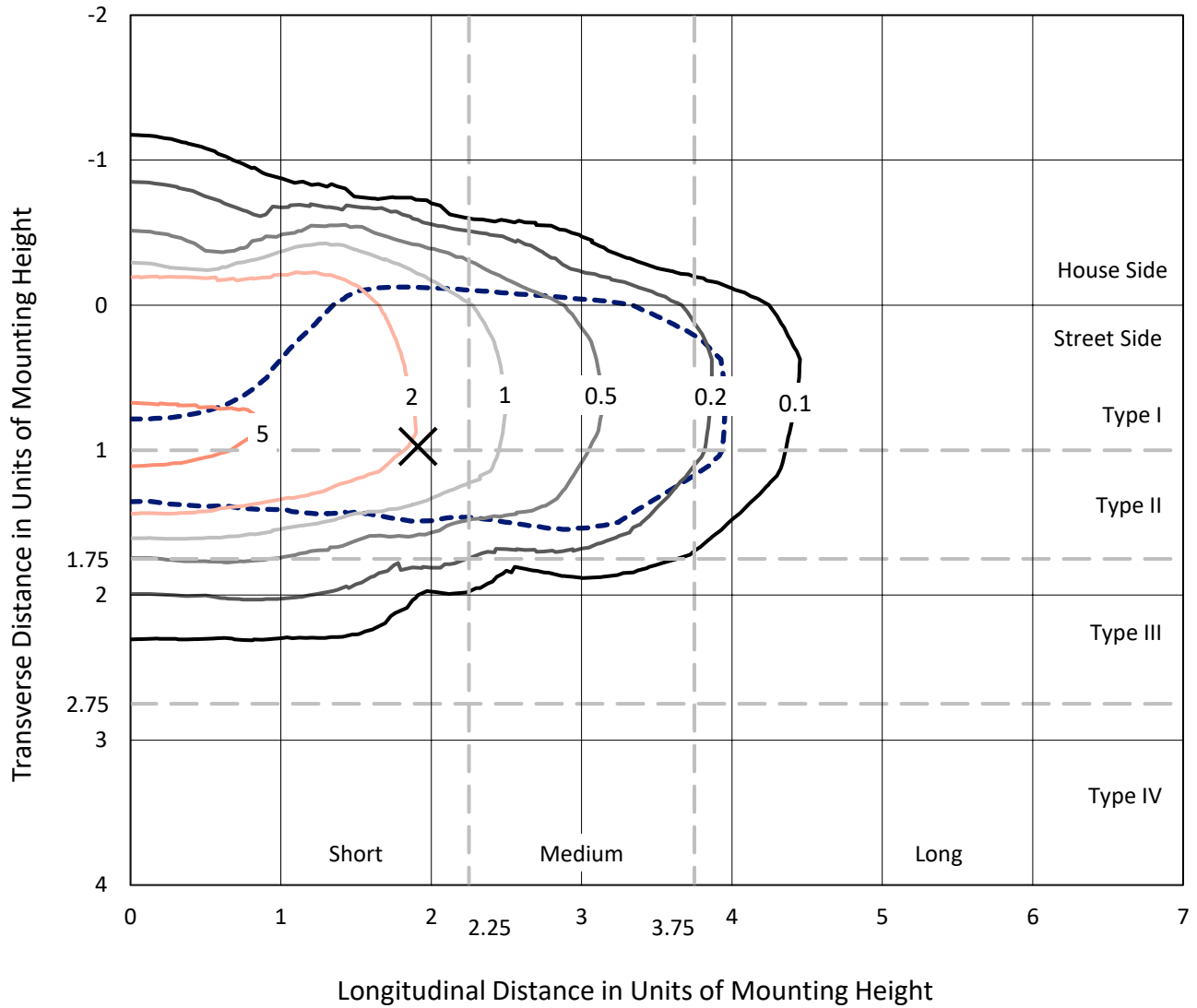
Lumens per Lamp: N/A  
Luminaire Lumens: 19007 lumens  
Efficiency: N/A  
Efficacy: 74.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

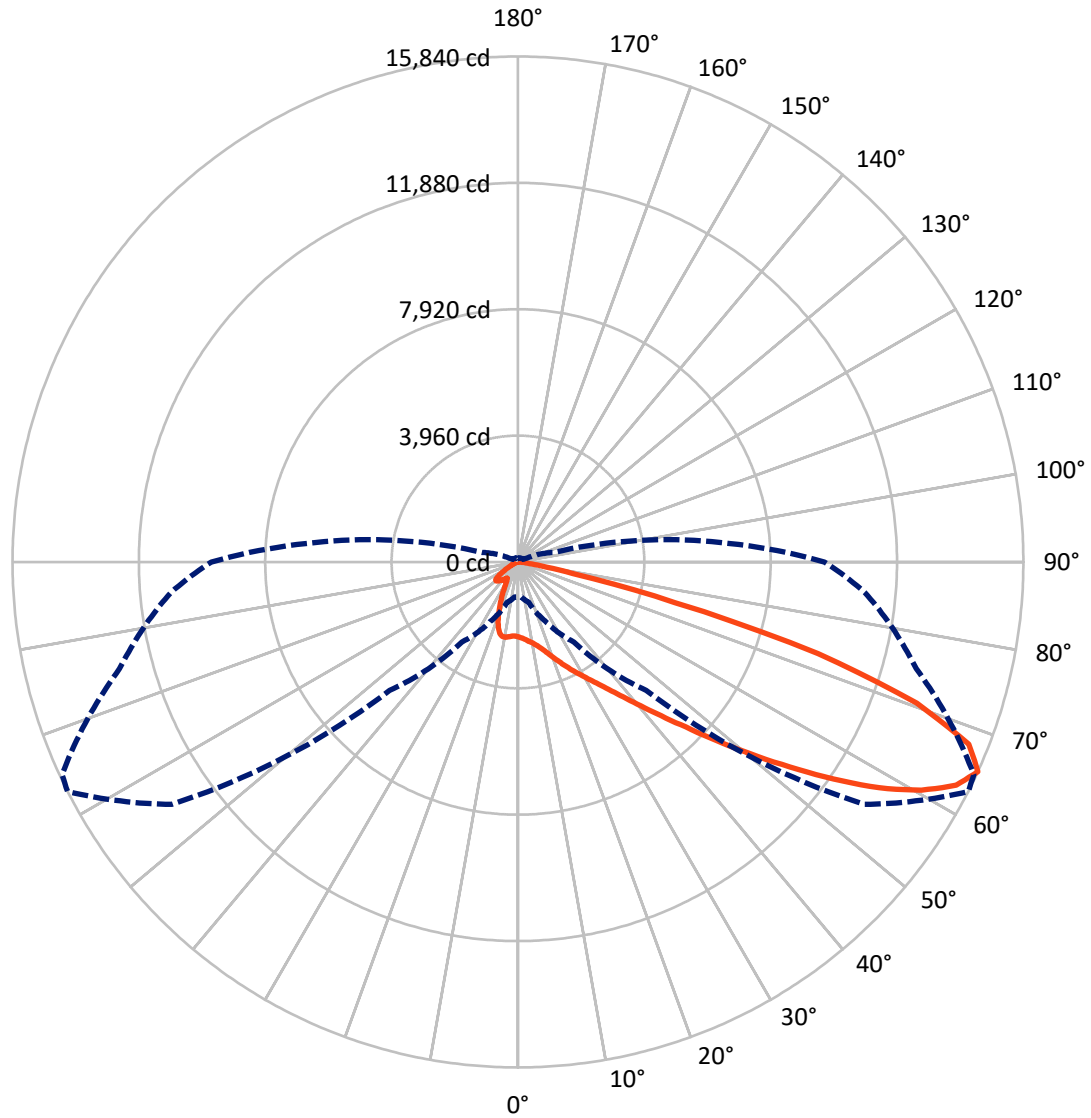
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	2793.9	0.0	2793.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	16213.1	0.0	16213.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	19007.0	0.0	19007.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.0	1.2
10°-20°	613.3	3.2
20°-30°	1067.8	5.6
30°-40°	1924.6	10.1
40°-50°	3817.2	20.1
50°-60°	5199.6	27.4
60°-70°	4150.3	21.8
70°-80°	1878.1	9.9
80°-90°	135.0	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°	19007.0	100.0
0°-180°	19007.0	100.0

**Coefficient of Utilization**



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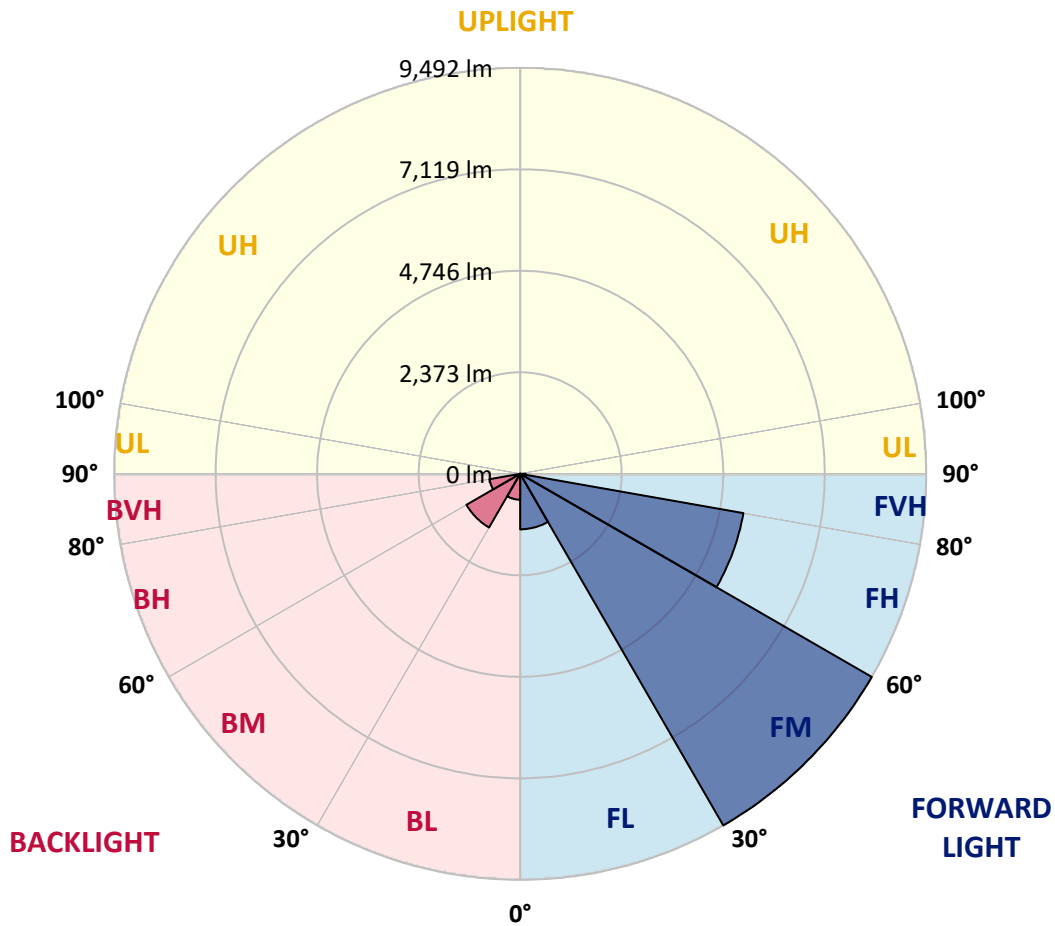
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1297.5	6.8			
FM (30°-60°)	9491.6	49.9			
FH (60°-80°)	5299.1	27.9			G3/7500
FVH (80°-90°)	125.0	0.7			G2/225
BL (0°-30°)	604.6	3.2	B2/1000		
BM (30°-60°)	1449.9	7.6	B2/2500		
BH (60°-80°)	729.4	3.8	B2/1000		G2/1000
BVH (80°-90°)	10.0	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°	2345.8	2345.8	2345.8	2345.8	2345.8	2345.8	2345.8	2345.8	2345.8	2345.8
2.5°	2400.7	2394.2	2403.4	2399.4	2396.8	2391.6	2389.0	2386.4	2381.1	2377.2
5°	2407.3	2403.4	2412.5	2420.4	2428.2	2436.0	2440.0	2445.2	2440.0	2429.5
7.5°	2352.4	2349.7	2369.4	2392.9	2428.2	2458.3	2491.0	2509.3	2510.6	2506.7
10°	2348.4	2341.9	2361.5	2390.3	2436.0	2489.7	2547.2	2586.4	2591.7	2608.6
12.5°	2409.9	2403.4	2430.8	2462.2	2509.3	2565.5	2636.1	2691.0	2698.9	2722.4
15°	2513.2	2504.0	2535.4	2576.0	2636.1	2700.2	2774.7	2824.4	2830.9	2859.7
17.5°	2633.5	2624.3	2661.0	2704.1	2769.5	2857.1	2943.4	2998.3	3006.2	3024.5
20°	2787.8	2776.0	2804.8	2844.0	2913.3	3017.9	3121.2	3199.7	3198.4	3198.4
22.5°	2966.9	2948.6	2973.5	3004.9	3070.2	3197.1	3334.4	3427.2	3427.2	3390.6
25°	3159.1	3140.8	3168.3	3197.1	3254.6	3398.4	3559.3	3674.3	3679.6	3616.8
27.5°	3399.7	3376.2	3397.1	3431.1	3465.1	3611.6	3802.5	3935.9	3938.5	3841.7
30°	3862.6	3795.9	3730.6	3694.0	3709.6	3854.8	4058.8	4206.5	4219.6	4086.2
32.5°	4710.0	4696.9	4466.7	4166.0	4009.1	4116.3	4345.1	4523.0	4530.8	4359.5
35°	6026.7	6011.0	5641.0	5068.2	4557.0	4466.7	4693.0	4903.5	4898.2	4704.7
37.5°	7598.4	7584.0	7096.3	6330.1	5502.4	4996.3	5141.5	5362.4	5395.1	5141.5
40°	8941.3	8887.7	8579.1	7840.3	6757.6	5875.0	5779.6	5926.0	5960.0	5659.3
42.5°	9958.6	9912.9	9756.0	9294.4	8277.1	7174.8	6531.4	6587.7	6625.6	6264.7
45°	10485.6	10475.1	10537.9	10494.7	9825.3	8770.0	7606.3	7372.2	7386.6	6935.5
47.5°	10560.1	10554.9	10841.3	11246.6	11156.4	10569.3	8985.8	8350.3	8299.3	7692.6
50°	10120.8	10110.3	10659.5	11419.2	12045.6	12080.9	10552.3	9452.6	9340.1	8475.8
52.5°	8717.7	8715.1	9617.4	10881.8	12358.1	13404.1	12100.5	10663.4	10475.1	9304.8
55°	6708.0	6756.3	7790.6	9285.2	11788.0	14040.9	13490.4	12007.6	11718.7	10139.1
57.5°	4751.8	4822.4	5844.9	7176.1	10020.1	13664.4	14430.6	13354.5	13043.2	10970.7
60°	2552.4	2615.2	3639.0	5227.8	7454.6	12260.0	14926.2	14523.4	14229.2	11760.5
62.5°	1520.7	1541.7	1965.3	3374.9	5042.1	9366.3	14715.7	15413.9	15172.0	12423.4
65°	1091.8	1095.8	1308.9	2060.8	3061.1	5690.6	13239.4	15840.2	15765.7	12922.9
67.5°	919.2	916.6	1005.5	1369.1	2085.6	2850.6	10146.9	15237.4	15553.8	13239.4
70°	788.5	792.4	897.0	1002.9	1567.8	1613.6	5044.7	13266.8	13941.6	13323.1
72.5°	587.1	600.2	696.9	914.0	1183.4	1110.1	1741.7	9837.0	11057.0	12552.9
75°	414.5	421.0	490.3	768.9	882.6	808.1	889.2	5085.2	6649.1	9623.9
77.5°	319.1	330.8	371.4	537.4	869.5	567.5	544.0	1760.0	2704.1	5813.6
80°	172.6	193.5	268.1	388.4	610.6	401.4	269.4	700.9	916.6	2718.5
82.5°	88.9	99.4	187.0	279.8	347.8	350.4	133.4	291.6	377.9	839.5
85°	35.3	43.2	125.5	154.3	179.1	172.6	60.1	117.7	136.0	232.8
87.5°	7.8	13.1	45.8	35.3	34.0	36.6	14.4	27.5	26.2	27.5
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°
2345.8	0°	2345.8	2345.8	2345.8	2345.8	2345.8	2345.8	2345.8	2345.8	2345.8	2345.8
2361.5	2.5°	2360.2	2355.0	2340.6	2324.9	2306.6	2296.1	2289.6	2288.3	2279.1	2272.6
2413.8	5°	2399.4	2394.2	2366.7	2334.1	2298.7	2271.3	2245.1	2221.6	2187.6	2181.1
2489.7	7.5°	2477.9	2463.5	2419.0	2374.6	2307.9	2228.1	2131.4	2020.2	1920.9	1890.8
2590.3	10°	2574.7	2555.0	2498.8	2420.4	2272.6	2055.5	1821.5	1604.4	1431.8	1383.4
2709.3	12.5°	2684.5	2667.5	2593.0	2447.8	2124.8	1731.3	1373.0	1103.6	936.2	894.4
2836.2	15°	2815.2	2790.4	2687.1	2406.0	1860.7	1315.4	942.8	783.2	723.1	715.3
2981.3	17.5°	2953.9	2913.3	2770.8	2255.6	1505.0	934.9	728.3	682.6	656.4	648.6
3127.8	20°	3080.7	3028.4	2820.5	2028.1	1124.5	728.3	652.5	622.4	598.9	589.7
3274.2	22.5°	3207.5	3133.0	2820.5	1718.2	843.4	646.0	598.9	571.4	544.0	532.2
3431.1	25°	3339.6	3240.2	2770.8	1373.0	678.6	592.3	547.9	517.8	494.3	479.9
3580.2	27.5°	3467.7	3330.4	2657.0	1046.1	604.1	545.3	500.8	472.0	449.8	439.4
3742.3	30°	3589.3	3419.4	2497.5	793.7	555.7	499.5	457.7	432.8	410.6	400.1
3952.9	32.5°	3754.1	3531.8	2327.5	651.2	513.9	456.4	418.4	394.9	375.3	367.4
4226.1	35°	3982.9	3697.9	2181.1	639.4	478.6	421.0	383.1	360.9	341.3	334.7
4579.2	37.5°	4307.2	3965.9	2103.9	717.9	449.8	389.7	354.4	330.8	312.5	307.3
5027.7	40°	4707.3	4329.4	2145.8	796.3	430.2	362.2	328.2	304.7	289.0	282.4
5542.9	42.5°	5182.0	4777.9	2377.2	856.5	417.1	338.7	303.4	277.2	266.7	264.1
6127.4	45°	5727.3	5270.9	2731.6	920.5	396.2	316.4	278.5	258.9	251.1	249.8
6762.9	47.5°	6347.1	5812.3	3142.1	1000.3	375.3	295.5	258.9	245.8	239.3	236.7
7425.8	50°	6961.6	6357.5	3564.5	1044.8	358.3	275.9	243.2	232.8	227.5	226.2
8126.7	52.5°	7605.0	6918.5	3905.8	1002.9	343.9	260.2	230.1	222.3	217.1	215.8
8772.6	55°	8218.2	7372.2	3964.6	851.2	315.1	244.5	215.8	211.8	205.3	205.3
9427.7	57.5°	8746.5	7599.7	3548.8	625.0	286.4	221.0	201.4	197.4	192.2	190.9
10018.8	60°	9231.6	7534.4	2739.4	421.0	255.0	197.4	183.1	180.4	175.2	168.7
10532.7	62.5°	9504.9	7246.7	1873.8	274.6	223.6	172.6	162.1	160.8	149.1	136.0
10913.2	65°	9608.2	6655.7	1169.0	200.1	187.0	147.8	139.9	137.3	120.3	105.9
11128.9	67.5°	9518.0	5682.8	589.7	158.2	147.8	122.9	115.1	115.1	103.3	90.2
11115.9	70°	9157.1	4260.1	248.4	126.8	113.8	94.1	94.1	99.4	87.6	73.2
10539.2	72.5°	8373.8	2866.2	132.1	96.8	85.0	66.7	77.1	81.1	69.3	54.9
8626.2	75°	6657.0	1748.3	91.5	71.9	53.6	47.1	58.8	61.5	47.1	36.6
5914.2	77.5°	4553.0	1004.2	61.5	45.8	34.0	27.5	40.5	37.9	24.8	17.0
2280.4	80°	1999.3	418.4	35.3	20.9	13.1	10.5	14.4	10.5	7.8	5.2
312.5	82.5°	234.1	98.1	13.1	7.8	5.2	2.6	1.3	0.0	0.0	0.0
95.5	85°	48.4	11.8	6.5	2.6	1.3	0.0	0.0	0.0	0.0	0.0
17.0	87.5°	9.2	2.6	1.3	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>
2345.8
2279.1
2178.5
1876.4
1365.1
882.6
707.4
644.6
584.5
525.7
474.7
439.4
401.4
367.4
334.7
306.0
281.1
264.1
248.4
236.7
226.2
215.8
204.0
189.6
167.4
133.4
104.6
88.9
71.9
54.9
35.3
18.3
5.2
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