

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: P948196

Luminaire Tested: **GALN-SB3B-827-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948196  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3B-827-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

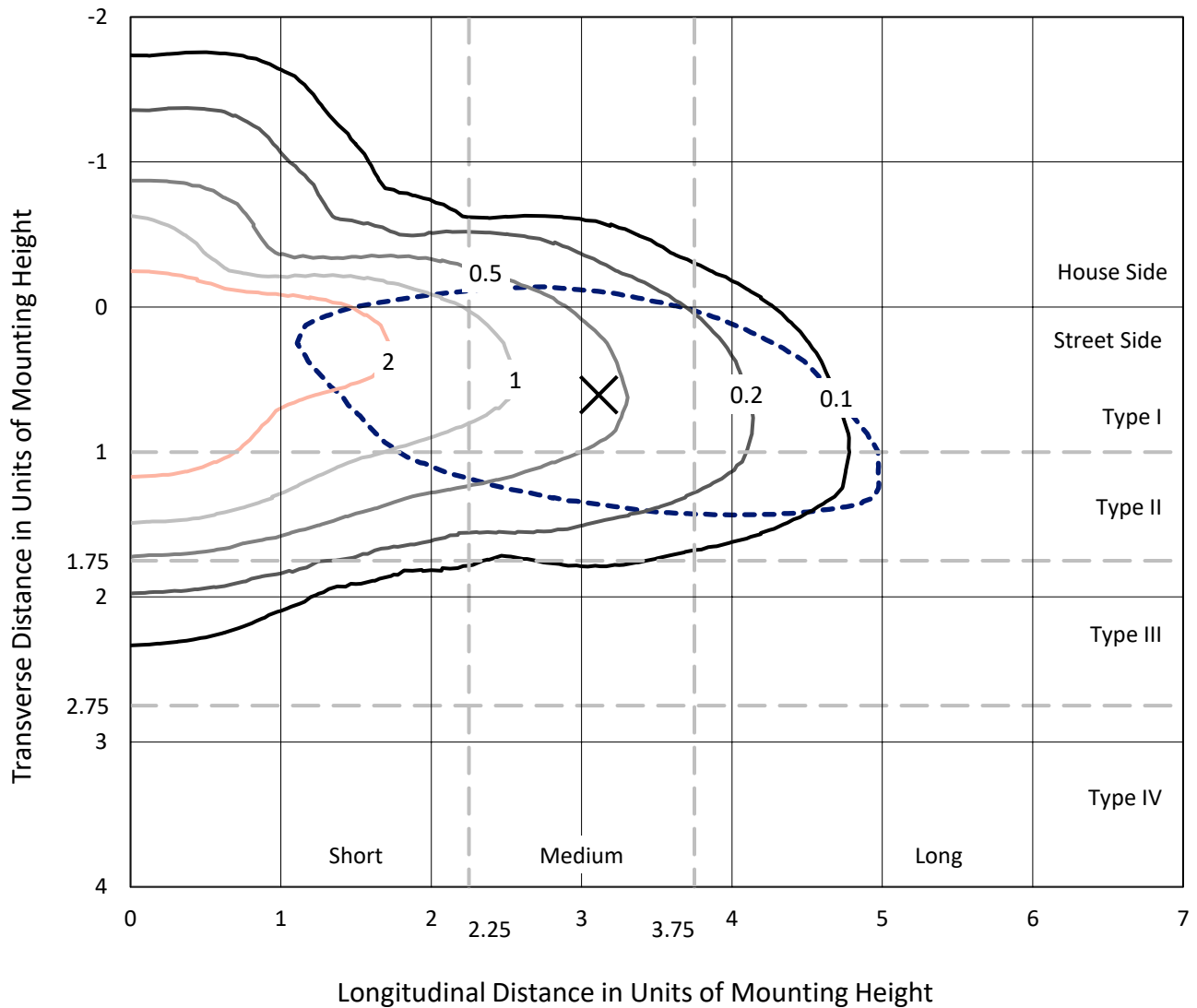
Lumens per Lamp: N/A  
Luminaire Lumens: 14603 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

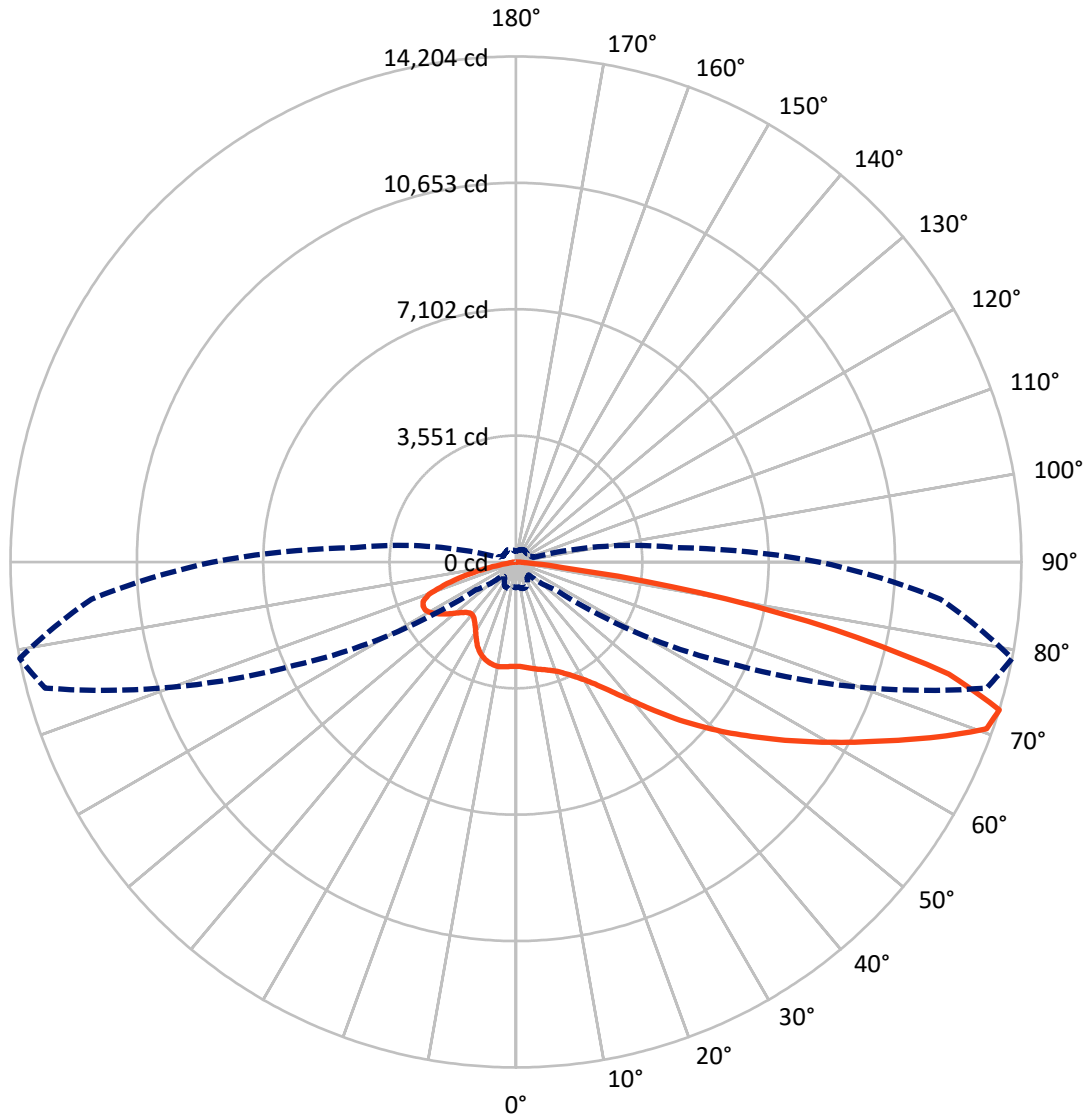
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3213.5	0.0	3213.5
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	11389.5	0.0	11389.5
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	14603.0	0.0	14603.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.1	1.8
10°-20°	695.7	4.8
20°-30°	1122.6	7.7
30°-40°	1684.8	11.5
40°-50°	2390.0	16.4
50°-60°	3018.2	20.7
60°-70°	3065.4	21.0
70°-80°	2089.2	14.3
80°-90°	271.1	1.9
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°	14603.0	100.0
0°-180°	14603.0	100.0



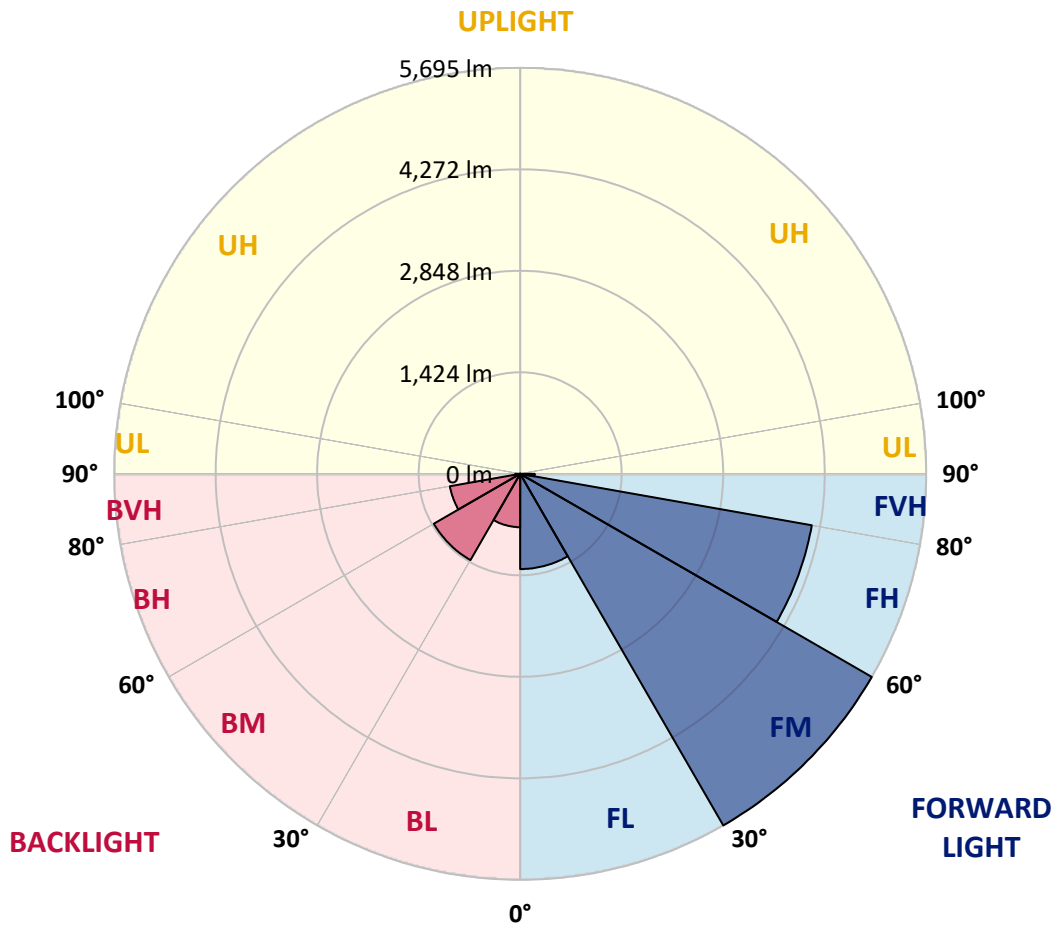
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1335.8	9.1			
FM (30°-60°)	5695.5	39.0			
FH (60°-80°)	4154.1	28.4			G2/5000
FVH (80°-90°)	204.2	1.4			G2/225
BL (0°-30°)	748.5	5.1	B2/1000		
BM (30°-60°)	1397.5	9.6	B2/2500		
BH (60°-80°)	1000.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	66.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4
2.5°	2933.0	2919.1	2927.6	2924.5	2928.3	2933.0	2934.5	2936.8	2944.5	2943.8
5°	2926.8	2912.9	2924.5	2920.6	2930.6	2941.5	2950.7	2959.2	2971.6	2977.0
7.5°	2913.6	2904.4	2916.0	2927.6	2946.1	2962.3	2975.4	2994.8	3012.5	3015.6
10°	2837.2	2830.2	2857.3	2887.4	2938.4	2982.4	3011.0	3033.4	3052.7	3055.8
12.5°	2757.6	2749.1	2779.2	2820.2	2902.8	2982.4	3042.6	3072.0	3089.0	3099.0
15°	2744.5	2737.5	2754.5	2790.1	2858.8	2961.5	3064.3	3118.3	3133.0	3144.6
17.5°	2807.8	2794.7	2801.6	2814.0	2854.2	2942.2	3081.3	3170.9	3193.3	3205.6
20°	2954.6	2936.0	2925.2	2900.5	2893.6	2945.3	3079.7	3234.2	3263.6	3279.0
22.5°	3150.0	3137.7	3114.5	3051.9	2983.9	2983.2	3109.1	3315.3	3370.2	3384.8
25°	3386.4	3367.8	3338.5	3253.5	3123.0	3058.1	3158.5	3418.8	3510.7	3514.6
27.5°	3658.3	3630.5	3590.3	3478.3	3302.2	3175.5	3234.2	3537.8	3672.2	3670.6
30°	3944.9	3917.0	3874.6	3738.6	3516.9	3333.9	3339.3	3666.0	3863.7	3855.3
32.5°	4154.2	4133.3	4124.8	4019.8	3764.1	3520.8	3459.8	3808.1	4100.1	4092.4
35°	4314.9	4287.8	4297.9	4244.6	4033.7	3730.1	3607.3	3977.3	4387.5	4386.7
37.5°	4474.0	4450.0	4458.5	4423.0	4283.2	3995.8	3787.3	4184.3	4743.6	4760.6
40°	4619.2	4593.7	4627.7	4594.5	4477.1	4278.6	3992.0	4418.4	5156.0	5188.5
42.5°	4706.5	4686.4	4742.8	4743.6	4645.5	4517.2	4216.8	4676.4	5633.4	5706.0
45°	4736.6	4729.7	4814.6	4832.4	4794.5	4655.5	4419.1	4957.5	6147.9	6277.6
47.5°	4704.2	4691.0	4808.4	4874.1	4904.2	4720.4	4586.8	5261.9	6673.1	6863.1
50°	4540.4	4514.9	4689.5	4827.8	4935.1	4762.9	4755.9	5613.3	7270.2	7478.0
52.5°	4246.1	4226.8	4425.3	4665.5	4867.2	4783.7	4945.9	5997.2	7837.2	8106.0
55°	3869.9	3844.4	4063.0	4376.7	4698.0	4776.8	5136.0	6426.7	8506.1	8778.8
57.5°	3273.6	3222.6	3499.2	3869.9	4422.2	4768.3	5333.7	6853.9	9185.9	9512.6
60°	2403.8	2328.1	2667.2	3106.8	3883.1	4685.6	5578.6	7332.8	10001.6	10295.9
62.5°	1399.7	1355.6	1577.3	1987.5	2926.8	4199.0	5716.1	7889.7	10803.4	11112.3
65°	1086.8	1074.5	1093.8	1125.4	1629.1	3143.8	5292.0	8432.7	11823.0	12039.3
67.5°	994.1	984.9	993.4	933.9	826.5	1751.1	4186.6	8570.2	12915.2	13046.5
70°	883.7	872.9	900.7	849.7	650.4	796.4	2705.1	8071.2	13784.2	14030.6
72.5°	719.9	707.6	772.4	749.3	547.7	511.4	1358.7	6885.5	13693.1	14204.4
75°	553.1	546.1	623.4	642.7	446.5	402.4	651.9	5118.2	12050.1	12565.3
77.5°	429.5	424.1	463.5	533.8	360.0	312.1	400.9	3246.6	9080.8	9171.2
80°	322.1	306.7	343.0	413.3	280.4	227.9	271.9	1893.3	5740.0	5203.2
82.5°	201.6	193.9	224.0	275.8	197.7	156.8	176.9	1045.9	2300.3	1354.9
85°	115.1	112.0	122.0	157.6	107.4	90.4	101.2	461.9	420.2	288.9
87.5°	46.3	44.8	55.6	70.3	39.4	33.2	35.5	111.2	92.7	85.7
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°
2931.4	0°	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4
2943.0	2.5°	2939.9	2939.9	2929.1	2912.1	2892.8	2880.4	2860.3	2854.9	2834.1	2827.9
2969.3	5°	2975.4	2969.3	2936.0	2888.2	2822.5	2762.2	2695.8	2654.1	2595.4	2574.5
3021.0	7.5°	3020.2	3003.3	2946.1	2841.0	2703.5	2568.4	2427.8	2321.2	2219.2	2182.9
3063.5	10°	3061.2	3037.2	2939.9	2756.1	2518.2	2284.1	2060.1	1903.3	1784.3	1735.7
3110.6	12.5°	3102.1	3058.1	2899.0	2614.7	2254.8	1937.3	1698.6	1576.6	1503.2	1444.5
3149.2	15°	3140.7	3078.9	2835.6	2425.5	1965.9	1643.8	1467.6	1370.3	1311.6	1273.0
3205.6	17.5°	3185.5	3096.7	2740.6	2185.2	1690.9	1440.6	1296.9	1238.2	1226.6	1222.0
3282.9	20°	3248.1	3112.9	2615.5	1916.4	1488.5	1278.4	1204.2	1198.8	1198.1	1195.7
3375.6	22.5°	3315.3	3132.2	2450.2	1672.3	1316.2	1177.2	1164.1	1153.3	1146.3	1145.5
3487.6	25°	3394.9	3138.4	2243.2	1472.3	1169.5	1129.3	1113.9	1097.6	1093.0	1093.0
3615.0	27.5°	3472.1	3117.6	2002.2	1298.5	1086.8	1085.3	1065.2	1059.8	1059.0	1061.3
3760.2	30°	3549.4	3078.2	1762.7	1137.8	1038.9	1038.9	1032.0	1035.8	1038.9	1046.7
3959.5	32.5°	3653.6	3036.5	1562.6	1018.8	997.2	989.5	996.4	1004.2	1007.3	1017.3
4221.4	35°	3806.6	3007.1	1403.5	954.0	954.0	943.9	947.8	946.2	939.3	934.7
4538.1	37.5°	4009.0	3005.6	1272.2	923.8	917.7	916.1	916.9	906.8	879.8	847.4
4921.2	40°	4252.3	3047.3	1171.0	903.0	898.3	907.6	903.0	875.9	801.8	745.4
5392.4	42.5°	4579.0	3166.2	1106.1	877.5	891.4	903.0	884.4	791.0	740.8	702.9
5929.3	45°	4963.7	3359.3	1072.9	850.5	878.3	892.2	802.6	761.6	721.5	675.9
6514.8	47.5°	5399.4	3602.7	1065.2	825.0	848.9	857.4	767.8	749.3	703.7	654.3
7103.4	50°	5873.6	3890.8	1086.1	794.8	806.4	777.1	756.2	739.2	692.1	643.4
7706.6	52.5°	6364.1	4208.3	1127.8	753.9	763.9	731.5	751.6	736.9	685.2	619.5
8330.0	55°	6846.1	4528.0	1167.9	706.0	720.7	690.6	738.5	727.6	653.5	579.3
8995.1	57.5°	7335.9	4846.3	1207.3	663.5	679.0	651.2	717.6	702.9	618.0	542.3
9721.2	60°	7844.9	5155.3	1225.9	622.6	633.4	614.9	685.9	660.4	577.8	504.4
10434.9	62.5°	8321.5	5412.5	1195.7	581.6	588.6	580.9	644.2	610.2	537.6	461.9
11178.8	65°	8799.6	5565.4	1103.0	541.5	543.0	539.2	585.5	556.2	490.5	424.8
11829.9	67.5°	9233.0	5651.2	955.5	498.2	494.4	492.8	530.7	497.5	444.9	387.8
12325.1	70°	9324.9	5433.3	730.0	447.2	447.2	443.4	470.4	436.4	394.7	348.4
11970.5	72.5°	8516.9	4570.5	518.3	389.3	395.5	387.8	410.2	381.6	343.7	312.8
10316.7	75°	6867.8	3351.6	377.0	329.8	340.6	327.5	348.4	328.3	295.8	295.1
7109.5	77.5°	4718.8	2072.5	273.4	271.9	279.6	262.6	286.6	275.8	246.4	233.3
3094.4	80°	2013.8	826.5	199.3	210.1	210.1	194.7	222.5	225.6	200.1	193.9
597.1	82.5°	400.9	234.8	139.8	144.4	135.9	131.3	157.6	174.6	241.0	268.0
180.0	85°	120.5	86.5	84.2	78.8	69.5	70.3	92.7	175.3	216.3	123.6
59.5	87.5°	33.2	21.6	22.4	17.8	14.7	19.3	31.7	132.9	72.6	30.9
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>
2931.4
2837.9
2590.0
2187.6
1746.5
1463.8
1279.9
1225.1
1203.5
1154.0
1097.6
1067.5
1052.1
1025.8
945.5
848.1
743.9
701.4
672.8
650.4
638.0
614.9
575.5
540.7
502.1
461.1
420.2
383.1
346.8
303.6
265.7
218.6
193.9
268.8
106.6
26.3
0.0

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