

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: P952209

Luminaire Tested: **GALN-SB6A-850-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952209  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB6A-850-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

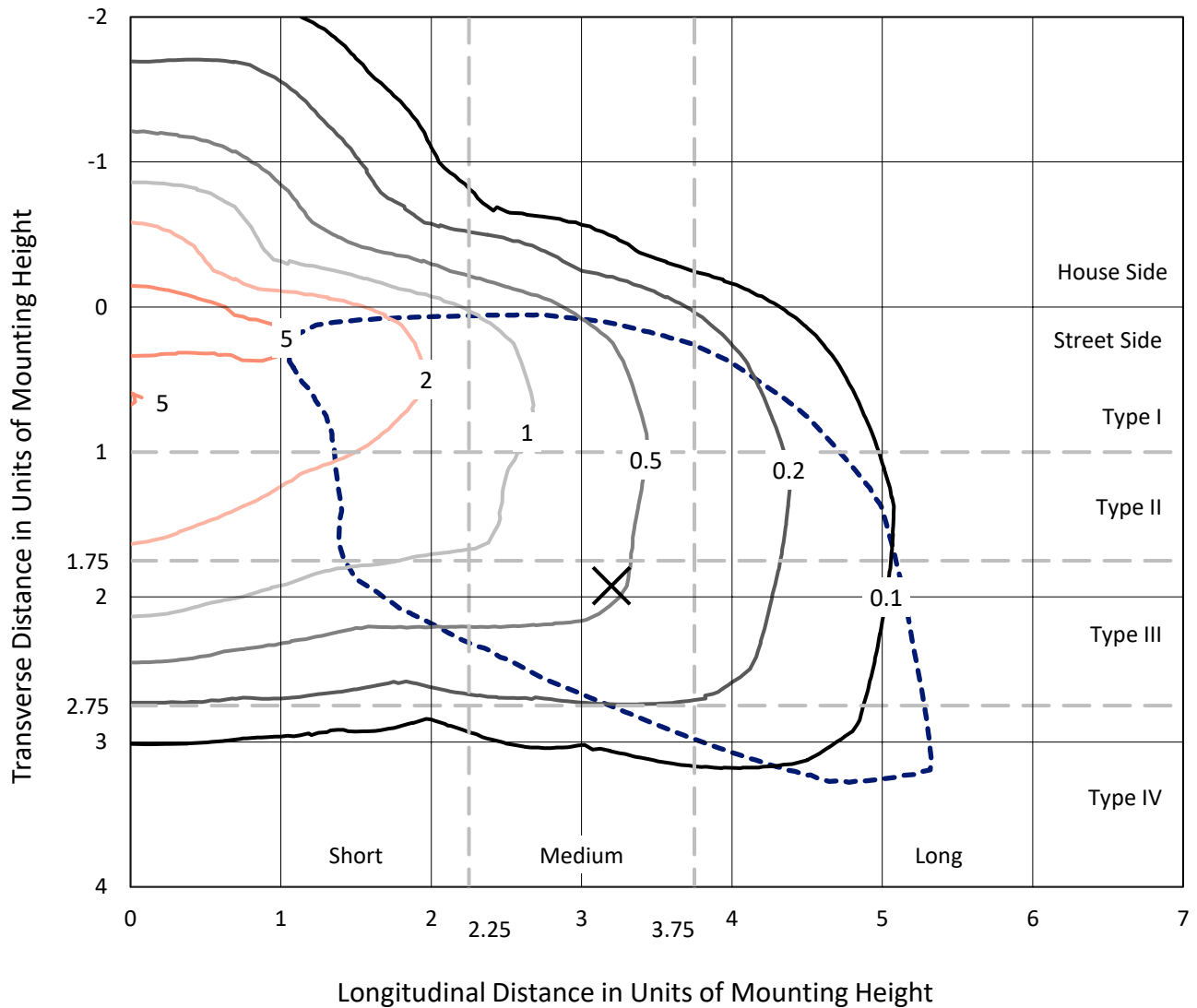
Lumens per Lamp: N/A  
Luminaire Lumens: 25429 lumens  
Efficiency: N/A  
Efficacy: 148.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

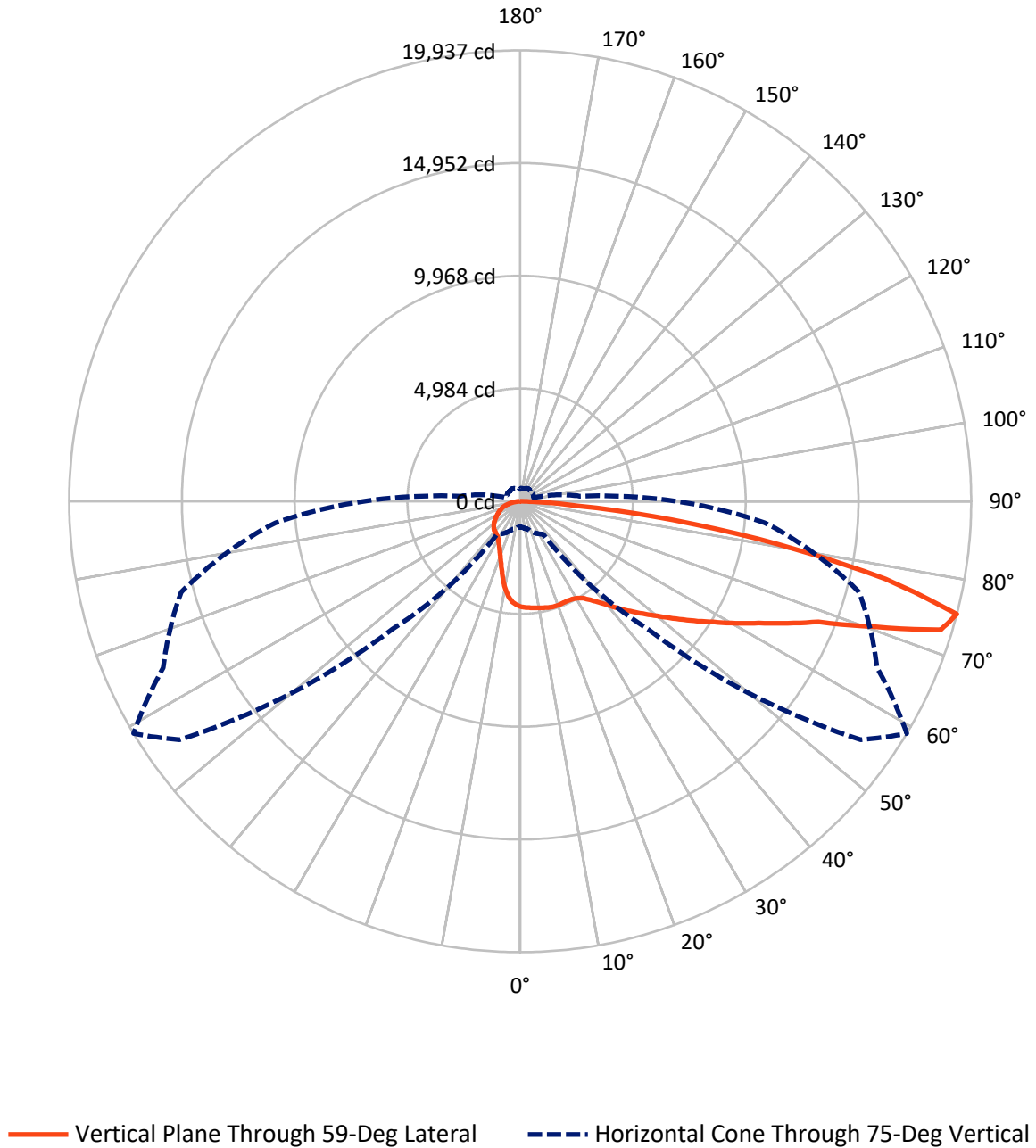
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4769.4	0.0	4769.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	20659.6	0.0	20659.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	25429.0	0.0	25429.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.5	1.6
10°-20°	1069.7	4.2
20°-30°	1624.9	6.4
30°-40°	2415.3	9.5
40°-50°	3592.0	14.1
50°-60°	4875.7	19.2
60°-70°	5952.4	23.4
70°-80°	4671.4	18.4
80°-90°	809.2	3.2
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°	25429.0	100.0
0°-180°	25429.0	100.0



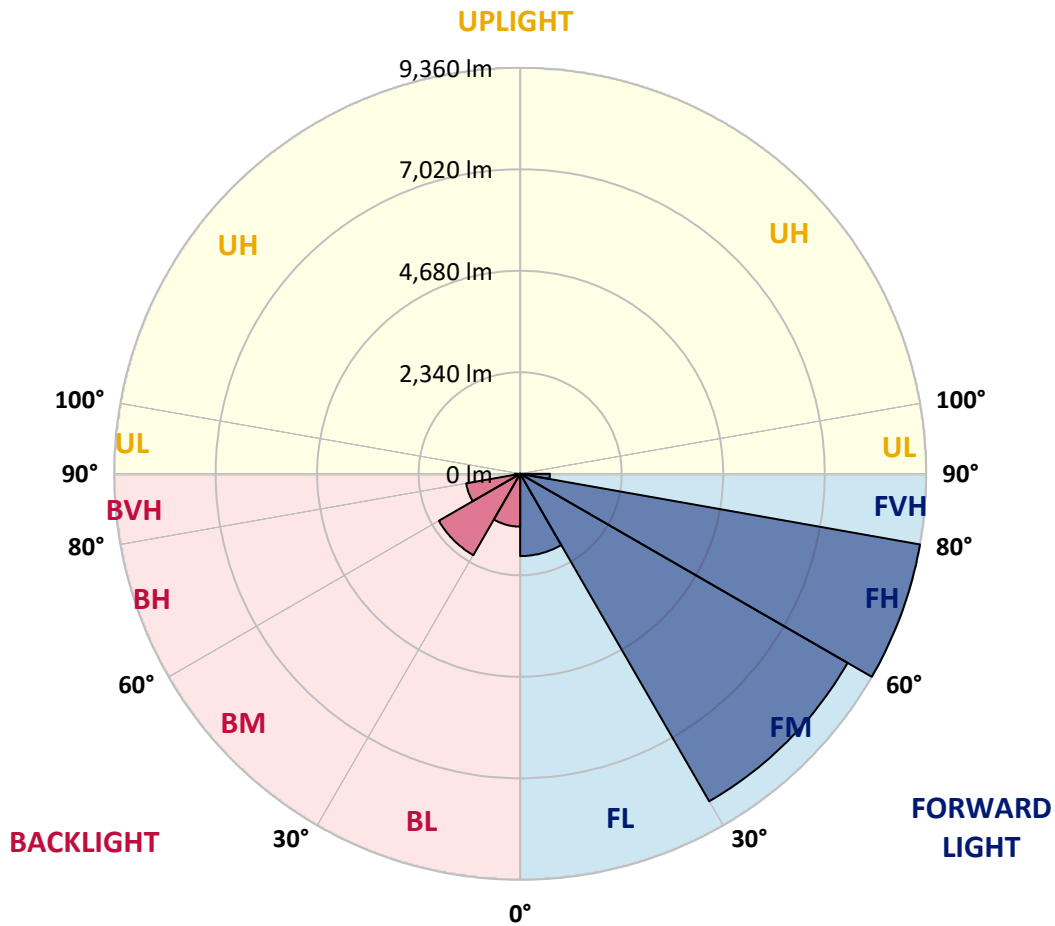
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1896.0	7.5			
FM (30°-60°)	8718.1	34.3			
FH (60°-80°)	9360.2	36.8			G4/12000
FVH (80°-90°)	685.3	2.7			G4/750
BL (0°-30°)	1217.1	4.8	B3/2500		
BM (30°-60°)	2164.8	8.5	B2/2500		
BH (60°-80°)	1263.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	123.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4667.4	4667.4	4667.4	4667.4	4667.4	4667.4	4667.4	4667.4	4667.4	4667.4
2.5°	4707.1	4690.7	4707.1	4700.3	4697.5	4692.1	4693.4	4703.0	4697.5	4704.4
5°	4675.6	4666.1	4682.5	4678.4	4696.2	4698.9	4716.7	4727.6	4734.5	4735.8
7.5°	4623.7	4614.1	4637.3	4656.5	4694.8	4705.7	4742.7	4760.5	4770.0	4786.4
10°	4433.5	4429.4	4486.9	4559.4	4649.7	4705.7	4761.8	4791.9	4807.0	4850.7
12.5°	4097.0	4102.5	4177.7	4317.2	4497.8	4678.4	4783.7	4827.5	4850.7	4905.5
15°	3775.5	3774.2	3856.2	4005.3	4258.4	4558.0	4794.7	4869.9	4909.6	4990.3
17.5°	3589.5	3584.0	3641.5	3755.0	3990.3	4373.3	4767.3	4893.1	4978.0	5079.2
20°	3555.3	3544.4	3574.4	3630.5	3797.4	4170.9	4696.2	4893.1	5032.7	5164.0
22.5°	3679.8	3662.0	3649.7	3642.8	3716.7	4004.0	4615.5	4876.7	5113.4	5285.7
25°	3930.1	3902.8	3839.8	3778.3	3756.4	3928.7	4544.3	4872.6	5233.8	5449.9
27.5°	4335.0	4300.8	4173.6	4025.9	3893.2	3967.0	4512.9	4897.3	5366.5	5623.6
30°	4837.1	4800.1	4640.1	4413.0	4175.0	4109.3	4552.5	4969.8	5536.1	5854.8
32.5°	5287.1	5246.1	5109.3	4878.1	4556.6	4355.5	4678.4	5107.9	5802.8	6176.3
35°	5686.6	5638.7	5515.6	5302.2	5024.5	4701.6	4905.5	5352.8	6181.8	6698.8
37.5°	6077.8	6021.7	5887.6	5661.9	5467.7	5162.6	5218.7	5667.4	6685.2	7333.6
40°	6515.5	6434.8	6272.0	6049.1	5860.3	5703.0	5630.5	6053.2	7196.8	8042.2
42.5°	6939.6	6863.0	6668.7	6478.6	6241.9	6196.8	6107.9	6504.6	7756.3	8820.5
45°	7396.5	7304.8	7069.6	6828.8	6679.7	6525.1	6570.3	6956.0	8304.8	9613.9
47.5°	7824.7	7722.1	7444.4	7176.3	7094.2	6801.4	6994.3	7452.6	8875.2	10418.3
50°	8055.8	7954.6	7723.4	7481.3	7417.0	7142.1	7453.9	7998.4	9473.0	11219.9
52.5°	8248.7	8139.3	7837.0	7702.9	7683.8	7512.8	8020.3	8622.2	10070.8	11928.5
55°	8453.9	8332.2	7946.4	7826.0	7913.6	7928.6	8691.9	9329.4	10702.8	12619.3
57.5°	8690.6	8536.0	8051.7	7930.0	8137.9	8415.6	9463.5	10062.6	11323.9	13259.5
60°	8913.5	8757.6	8254.2	8095.5	8380.0	8980.6	10348.5	10950.4	12027.0	13829.9
62.5°	8957.3	8828.7	8415.6	8414.2	8708.4	9639.9	11396.4	11846.4	12641.2	14393.5
65°	8199.5	8118.8	7873.9	8401.9	9178.9	10589.3	12563.2	12992.8	13422.3	14886.0
67.5°	6240.6	6251.5	6233.7	7252.9	8798.6	11953.1	14252.6	14219.8	14386.7	15438.7
70°	2853.5	2917.8	3336.4	5006.7	7049.0	12110.4	17046.0	16620.6	15597.3	16154.1
72.5°	1541.7	1590.9	1761.9	2425.4	4237.9	10767.1	19133.5	19435.8	17207.4	16635.6
75°	1131.3	1158.7	1277.7	1541.7	1779.7	8002.5	18385.2	19936.5	17408.5	15512.5
77.5°	846.8	859.1	956.2	1221.6	911.1	4218.7	14690.4	16511.1	14902.4	12745.2
80°	614.2	627.9	700.4	916.5	638.8	1543.0	10087.2	11589.2	10206.3	8124.2
82.5°	424.1	429.5	461.0	623.8	446.0	599.2	5723.5	6796.0	5697.5	2850.8
85°	255.8	262.6	276.3	363.9	253.1	284.5	2470.5	2555.3	1703.1	681.2
87.5°	105.3	112.2	123.1	153.2	99.9	79.3	407.6	511.6	318.7	199.7
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°
4667.4	0°	4667.4	4667.4	4667.4	4667.4	4667.4	4667.4	4667.4	4667.4	4667.4	4667.4
4681.1	2.5°	4674.3	4664.7	4638.7	4603.1	4570.3	4529.3	4511.5	4496.4	4482.8	4456.8
4718.1	5°	4703.0	4677.0	4607.2	4517.0	4414.4	4302.2	4192.8	4117.5	4053.2	4005.3
4760.5	7.5°	4746.8	4697.5	4570.3	4385.6	4150.4	3909.6	3692.1	3537.5	3421.2	3378.8
4820.6	10°	4791.9	4733.1	4511.5	4185.9	3779.6	3408.9	3120.3	2961.6	2868.6	2838.5
4891.8	12.5°	4845.3	4759.1	4419.8	3908.2	3365.2	2958.9	2707.2	2614.1	2566.3	2549.9
4979.3	15°	4923.2	4781.0	4281.7	3560.8	2969.8	2630.6	2467.8	2403.5	2378.9	2377.5
5069.6	17.5°	4982.1	4785.1	4066.9	3188.7	2666.1	2432.2	2298.2	2273.5	2289.9	2314.6
5158.5	20°	5047.7	4748.1	3785.1	2849.4	2452.7	2258.5	2202.4	2218.8	2258.5	2294.0
5276.2	22.5°	5094.2	4681.1	3444.5	2585.4	2268.1	2158.6	2155.9	2190.1	2212.0	2229.8
5414.3	25°	5135.3	4567.6	3083.4	2363.8	2116.2	2098.4	2128.5	2117.6	2102.5	2117.6
5552.5	27.5°	5165.4	4388.4	2760.5	2169.6	2009.5	2057.4	2039.6	2015.0	2013.6	2021.8
5715.3	30°	5155.8	4149.0	2495.1	1984.9	1934.3	1980.8	1938.4	1934.3	1930.2	1934.3
5960.1	32.5°	5155.8	3876.8	2291.3	1857.7	1886.4	1868.6	1864.5	1854.9	1838.5	1837.2
6292.6	35°	5184.5	3604.5	2116.2	1789.3	1846.7	1804.3	1807.1	1783.8	1749.6	1733.2
6733.0	37.5°	5243.3	3385.7	1942.5	1756.4	1777.0	1775.6	1764.7	1725.0	1664.8	1612.8
7283.0	40°	5385.6	3321.4	1823.5	1741.4	1744.1	1760.5	1731.8	1655.2	1518.4	1433.6
7841.1	42.5°	5608.6	3429.4	1797.5	1704.5	1722.2	1738.7	1682.6	1504.7	1407.6	1357.0
8426.6	45°	5891.7	3618.2	1853.6	1651.1	1670.3	1699.0	1532.1	1447.3	1403.5	1404.9
9006.6	47.5°	6250.2	3816.6	1957.5	1604.6	1595.0	1611.4	1432.2	1380.3	1320.1	1335.1
9563.3	50°	6664.6	4017.7	2056.0	1541.7	1511.6	1458.2	1367.9	1318.7	1242.1	1206.5
10100.9	52.5°	7113.3	4211.9	2095.7	1465.1	1421.3	1359.7	1324.2	1264.0	1171.0	1112.1
10608.4	55°	7538.8	4388.4	2051.9	1373.4	1331.0	1283.1	1277.7	1240.7	1140.9	1058.8
11059.9	57.5°	7940.9	4536.1	1942.5	1280.4	1239.4	1210.6	1247.6	1229.8	1103.9	998.6
11486.7	60°	8281.6	4637.3	1783.8	1186.0	1157.3	1142.2	1198.3	1192.9	1052.0	934.3
11869.7	62.5°	8552.4	4677.0	1608.7	1095.7	1088.9	1061.5	1129.9	1129.9	986.3	871.4
12206.2	65°	8764.4	4638.7	1430.9	1006.8	1020.5	979.5	1046.5	1038.3	916.5	815.3
12593.3	67.5°	8951.8	4512.9	1233.9	919.3	950.7	898.7	958.9	939.8	839.9	759.2
12928.5	70°	9035.3	4220.1	1009.5	831.7	870.0	819.4	871.4	835.8	753.7	699.0
12560.5	72.5°	8365.0	3507.4	794.8	740.1	772.9	731.9	777.0	736.0	660.7	636.1
10846.5	75°	6920.4	2631.9	611.5	640.2	664.8	633.4	663.5	633.4	565.0	582.7
8012.1	77.5°	5025.8	1777.0	467.8	534.9	545.8	529.4	555.4	521.2	459.6	455.5
3993.0	80°	2499.2	1041.0	366.6	422.7	418.6	407.6	437.7	421.3	369.3	391.2
1077.9	82.5°	723.6	446.0	266.7	296.8	288.6	291.4	313.3	321.5	481.5	477.4
335.1	85°	227.1	175.1	160.0	165.5	157.3	161.4	184.7	366.6	339.3	198.4
104.0	87.5°	58.8	60.2	39.7	42.4	43.8	52.0	58.8	223.0	106.7	69.8
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>
4667.4
4444.5
3965.7
3305.0
2792.0
2554.0
2383.0
2324.1
2306.4
2239.3
2127.2
2035.5
1949.3
1854.9
1749.6
1630.6
1444.6
1357.0
1411.7
1373.4
1216.1
1110.8
1058.8
993.1
930.2
867.3
809.8
753.7
688.1
615.6
532.1
435.0
387.1
488.4
214.8
73.9
0.0

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