

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: P948571

Luminaire Tested: **GALN-SB3C-830-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3C-830-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

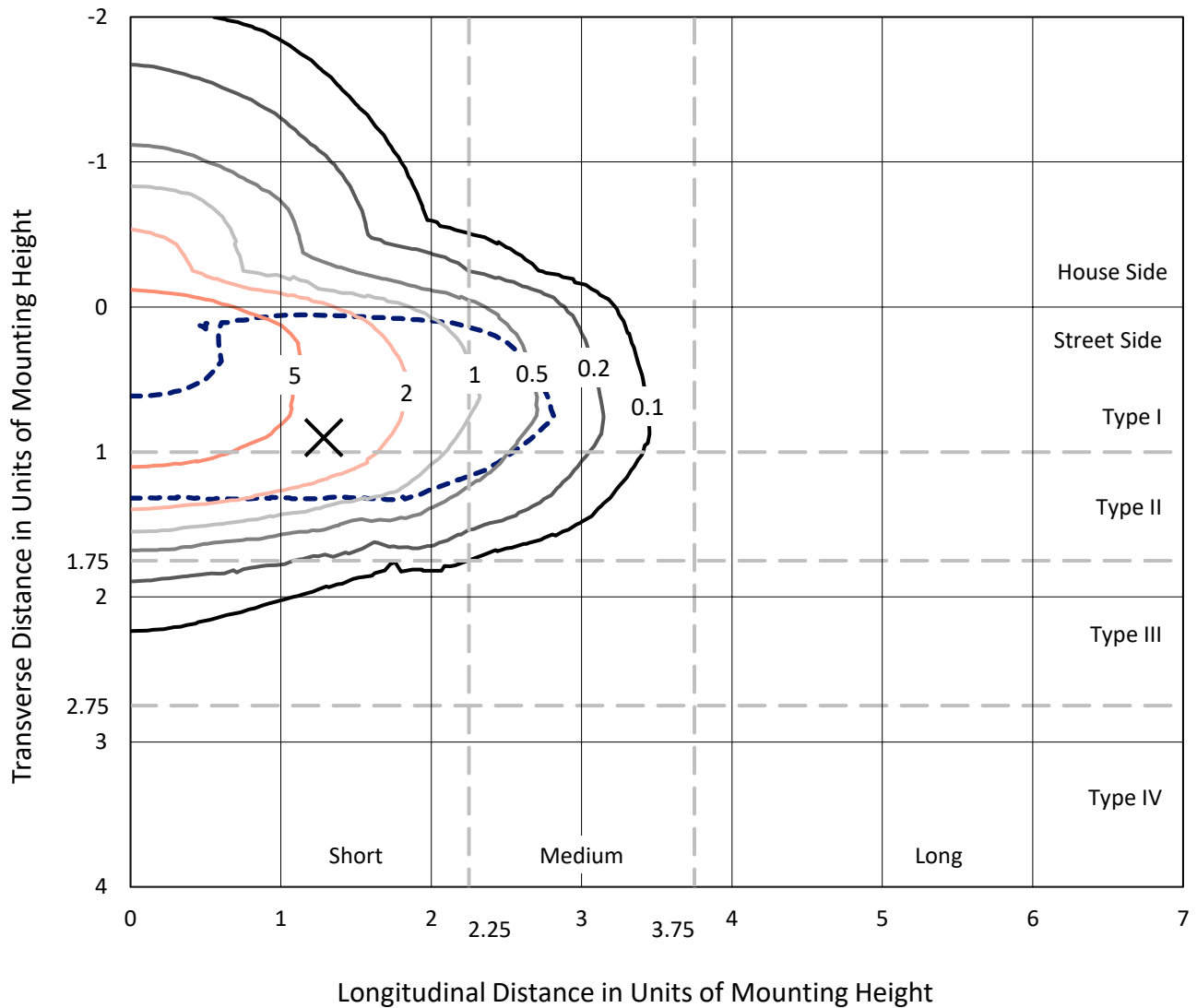
Lumens per Lamp: N/A  
Luminaire Lumens: 20534 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

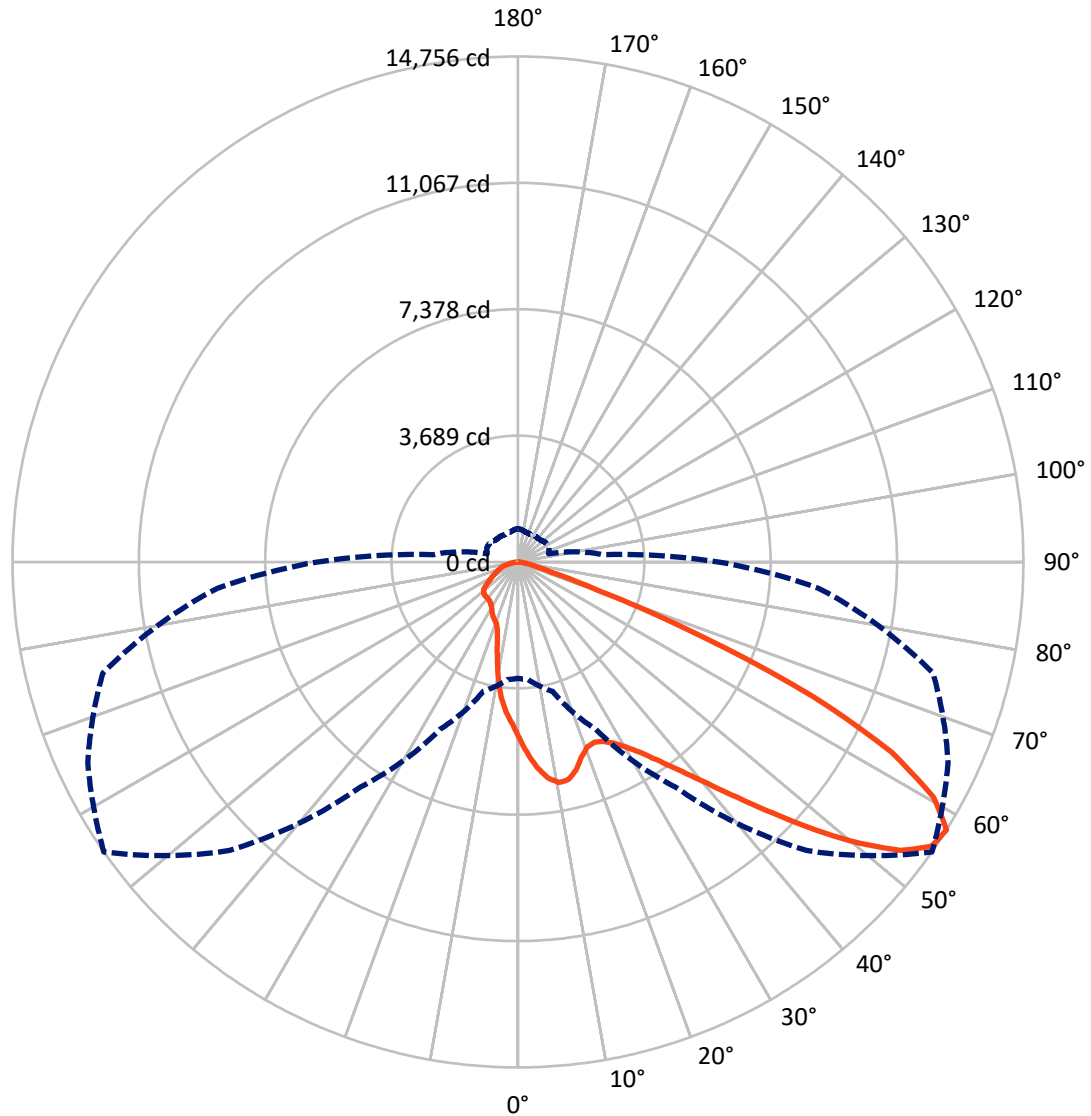
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3715.5	0.0	3715.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	16818.5	0.0	16818.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	20534.0	0.0	20534.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.4	2.3
10°-20°	1205.1	5.9
20°-30°	1923.0	9.4
30°-40°	3044.5	14.8
40°-50°	4660.0	22.7
50°-60°	4991.3	24.3
60°-70°	3140.0	15.3
70°-80°	928.6	4.5
80°-90°	164.2	0.8
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°	20534.0	100.0
0°-180°	20534.0	100.0

**Coefficient of Utilization**



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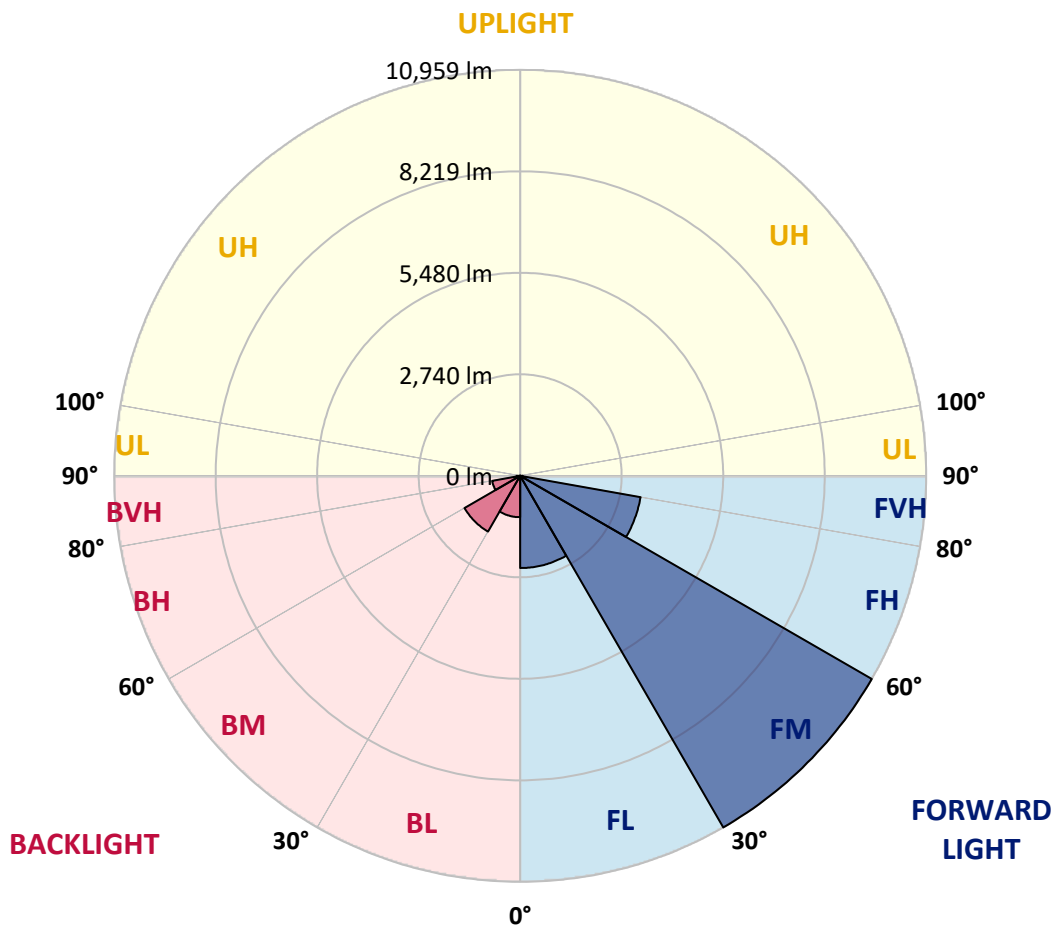
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2488.7	12.1			
FM (30°-60°)	10959.1	53.4			
FH (60°-80°)	3301.2	16.1			G2/5000
FVH (80°-90°)	69.4	0.3			G1/100
BL (0°-30°)	1116.8	5.4	B3/2500		
BM (30°-60°)	1736.6	8.5	B2/2500		
BH (60°-80°)	767.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	94.8	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-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5145.2	5145.2	5145.2	5145.2	5145.2	5145.2	5145.2	5145.2	5145.2	5145.2
2.5°	5903.1	5898.8	5922.2	5842.6	5788.4	5715.2	5618.6	5495.5	5362.8	5222.6
5°	6434.9	6397.7	6422.2	6362.7	6303.3	6192.9	6049.6	5848.9	5603.7	5324.5
7.5°	6351.0	6325.6	6388.2	6441.3	6485.8	6472.0	6367.0	6156.8	5840.4	5434.9
10°	5674.8	5646.2	5734.3	5917.9	6187.6	6422.2	6549.5	6419.0	6082.5	5556.0
12.5°	5078.3	5064.5	5122.9	5271.5	5570.8	6020.9	6526.2	6648.3	6334.0	5699.3
15°	4823.5	4806.5	4843.7	4919.1	5110.1	5529.4	6313.9	6805.4	6581.4	5864.9
17.5°	4767.3	4748.1	4764.1	4803.3	4926.5	5246.0	5993.3	6882.9	6839.3	6049.6
20°	4871.3	4855.4	4857.5	4855.4	4941.3	5195.0	5770.4	6853.1	7064.4	6219.4
22.5°	5122.9	5096.3	5097.4	5041.1	5087.8	5284.2	5712.0	6773.5	7265.0	6368.0
25°	5532.6	5484.8	5494.4	5351.1	5338.3	5483.8	5803.3	6711.9	7464.6	6486.9
27.5°	6093.1	6038.9	6010.3	5796.9	5695.0	5767.2	5989.1	6733.2	7653.5	6589.9
30°	6793.7	6727.9	6669.5	6367.0	6182.3	6155.7	6277.8	6873.3	7876.4	6698.1
32.5°	7652.4	7576.0	7469.9	7068.6	6808.5	6669.5	6651.4	7122.8	8137.6	6836.1
35°	8674.7	8574.9	8424.2	7905.1	7576.0	7291.5	7144.0	7482.6	8495.3	7044.2
37.5°	9727.7	9615.2	9477.2	8859.4	8455.0	8035.7	7744.8	7970.9	8971.9	7326.6
40°	10699.0	10572.7	10444.2	9894.4	9460.2	8954.9	8480.4	8588.7	9554.7	7664.1
42.5°	11272.2	11178.8	11130.0	10832.7	10497.3	9984.6	9395.5	9321.1	10209.6	8052.6
45°	11246.7	11208.5	11359.3	11482.4	11402.8	11118.3	10467.6	10131.1	10866.7	8389.1
47.5°	10645.9	10671.4	11007.9	11700.0	12004.7	12153.3	11688.3	10926.2	11437.8	8640.7
50°	9011.2	9032.4	9811.6	11304.1	12159.6	12997.2	12899.5	11702.1	11880.5	8794.6
52.5°	7717.2	7731.0	8065.4	10130.0	11648.0	13421.8	13990.7	12433.5	12204.2	8837.1
55°	5812.8	5860.6	6235.3	7947.5	10316.8	13085.3	14655.2	13187.2	12409.1	8841.3
57.5°	3395.8	3447.8	3910.6	5394.6	8018.7	11912.3	14756.1	13855.9	12548.1	8807.4
60°	1663.4	1685.7	1887.4	2835.3	4944.5	9652.3	13945.1	14179.7	12625.6	8789.3
62.5°	1121.0	1117.8	1126.3	1399.1	2436.2	6201.4	12255.2	13612.8	12584.2	8720.3
65°	963.9	952.2	920.3	981.9	1262.1	2836.4	9468.7	11920.8	12269.0	8547.3
67.5°	833.3	834.3	835.4	816.3	901.2	1308.8	5786.3	9390.1	11137.4	7727.8
70°	690.0	699.5	703.8	703.8	734.6	858.8	2470.1	6436.0	8785.1	6059.1
72.5°	628.4	608.2	610.4	599.8	599.8	653.9	994.6	3648.4	5534.7	3408.5
75°	512.7	525.4	527.6	520.1	495.7	498.9	590.2	1530.7	2368.2	1413.9
77.5°	442.7	442.7	446.9	441.6	422.5	373.7	393.8	593.4	805.7	579.6
80°	355.6	354.5	372.6	383.2	353.5	276.0	251.6	328.0	357.7	254.8
82.5°	173.0	183.6	255.8	291.9	268.6	199.6	153.9	203.8	191.1	112.5
85°	100.8	95.5	114.6	162.4	153.9	110.4	74.3	106.2	99.8	57.3
87.5°	31.8	29.7	23.4	55.2	44.6	30.8	20.2	30.8	27.6	12.7
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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5145.2	0°	5145.2	5145.2	5145.2	5145.2	5145.2	5145.2	5145.2	5145.2	5145.2	5145.2
5162.1	2.5°	5086.8	4961.5	4837.3	4723.7	4654.7	4610.2	4565.6	4515.7	4496.6	4467.9
5175.9	5°	5035.8	4793.8	4578.3	4392.5	4223.8	4091.1	3957.3	3849.0	3800.2	3833.1
5219.5	7.5°	5006.1	4655.8	4323.5	3982.8	3654.8	3392.6	3164.4	3004.1	2931.9	2949.9
5261.9	10°	4979.6	4499.8	3993.4	3455.2	2983.9	2659.1	2425.6	2303.5	2257.8	2267.4
5319.2	12.5°	4955.1	4324.6	3595.3	2887.3	2386.3	2171.9	2105.0	2106.0	2114.5	2120.9
5410.5	15°	4950.9	4113.4	3150.6	2390.5	2063.6	2049.8	2122.0	2167.6	2192.0	2199.5
5487.0	17.5°	4944.5	3860.7	2697.3	2051.9	1985.0	2078.4	2145.3	2175.0	2194.1	2195.2
5561.3	20°	4919.1	3540.1	2279.1	1890.6	1968.0	2048.7	2090.1	2113.5	2129.4	2134.7
5617.5	22.5°	4840.5	3183.5	1953.2	1818.4	1900.1	1964.9	2013.7	2040.2	2049.8	2056.2
5628.1	25°	4699.3	2784.3	1728.1	1749.4	1805.6	1887.4	1926.6	1932.0	1928.8	1938.3
5601.6	27.5°	4514.6	2356.6	1588.0	1656.0	1728.1	1798.2	1819.4	1816.2	1809.9	1820.5
5556.0	30°	4291.7	1972.3	1498.9	1550.9	1649.6	1713.3	1732.4	1725.0	1712.2	1723.9
5532.6	32.5°	4056.0	1658.1	1425.6	1477.6	1584.8	1647.5	1666.6	1659.1	1649.6	1659.1
5559.1	35°	3836.3	1438.4	1357.7	1428.8	1533.9	1595.5	1619.9	1620.9	1620.9	1632.6
5629.2	37.5°	3634.6	1309.9	1301.4	1398.0	1498.9	1554.1	1589.1	1591.2	1545.6	1548.7
5748.1	40°	3447.8	1255.8	1275.9	1377.8	1464.9	1518.0	1520.1	1401.2	1317.3	1315.2
5884.0	42.5°	3294.9	1245.2	1283.4	1375.7	1440.5	1442.6	1292.9	1200.6	1177.2	1178.3
6009.2	45°	3151.6	1242.0	1300.4	1375.7	1404.4	1246.2	1145.4	1121.0	1123.1	1131.6
6065.5	47.5°	2991.3	1229.2	1303.5	1356.6	1300.4	1108.2	1078.5	1067.9	1063.6	1065.8
6052.7	50°	2816.2	1183.6	1263.2	1318.4	1122.0	1048.8	1011.6	1008.4	1013.7	1016.9
5981.6	52.5°	2631.5	1109.3	1194.2	1249.4	1040.3	996.8	955.4	962.8	986.1	993.6
5907.3	55°	2510.5	1022.2	1102.9	1111.4	983.0	947.9	912.9	929.9	973.4	987.2
5862.7	57.5°	2478.6	929.9	998.9	989.3	909.7	905.5	884.2	899.1	954.3	974.5
5860.6	60°	2469.1	847.1	897.0	889.5	838.6	858.8	853.5	860.9	880.0	886.4
5839.4	62.5°	2394.8	781.3	805.7	795.1	774.9	809.9	822.7	806.7	821.6	829.0
5694.0	65°	2205.8	728.2	716.5	709.1	717.6	749.4	774.9	743.1	756.9	778.1
5133.5	67.5°	1893.7	656.0	624.2	632.7	659.2	676.2	709.1	673.0	684.7	720.8
4134.6	70°	1531.8	564.7	536.1	560.5	586.0	621.0	626.3	601.9	629.5	669.8
2523.2	72.5°	1083.8	472.4	452.2	502.1	510.6	556.2	544.6	532.9	571.1	584.9
1247.3	75°	751.6	381.1	369.4	407.6	438.4	477.7	469.2	483.0	563.7	570.0
623.1	77.5°	475.6	296.2	288.7	313.1	355.6	399.1	412.9	570.0	962.8	1001.0
323.8	80°	276.0	220.8	212.3	231.4	268.6	308.9	398.1	699.5	634.8	627.4
145.4	82.5°	153.9	151.8	141.2	146.5	179.4	222.9	562.6	492.5	400.2	412.9
58.4	85°	72.2	89.2	76.4	73.2	100.8	261.1	375.8	281.3	186.8	182.6
12.7	87.5°	19.1	17.0	17.0	19.1	42.5	225.0	149.7	120.0	71.1	69.0
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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