

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: P955879

Luminaire Tested: **GALN-SB8C-950-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955879  
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-SB8C-950-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

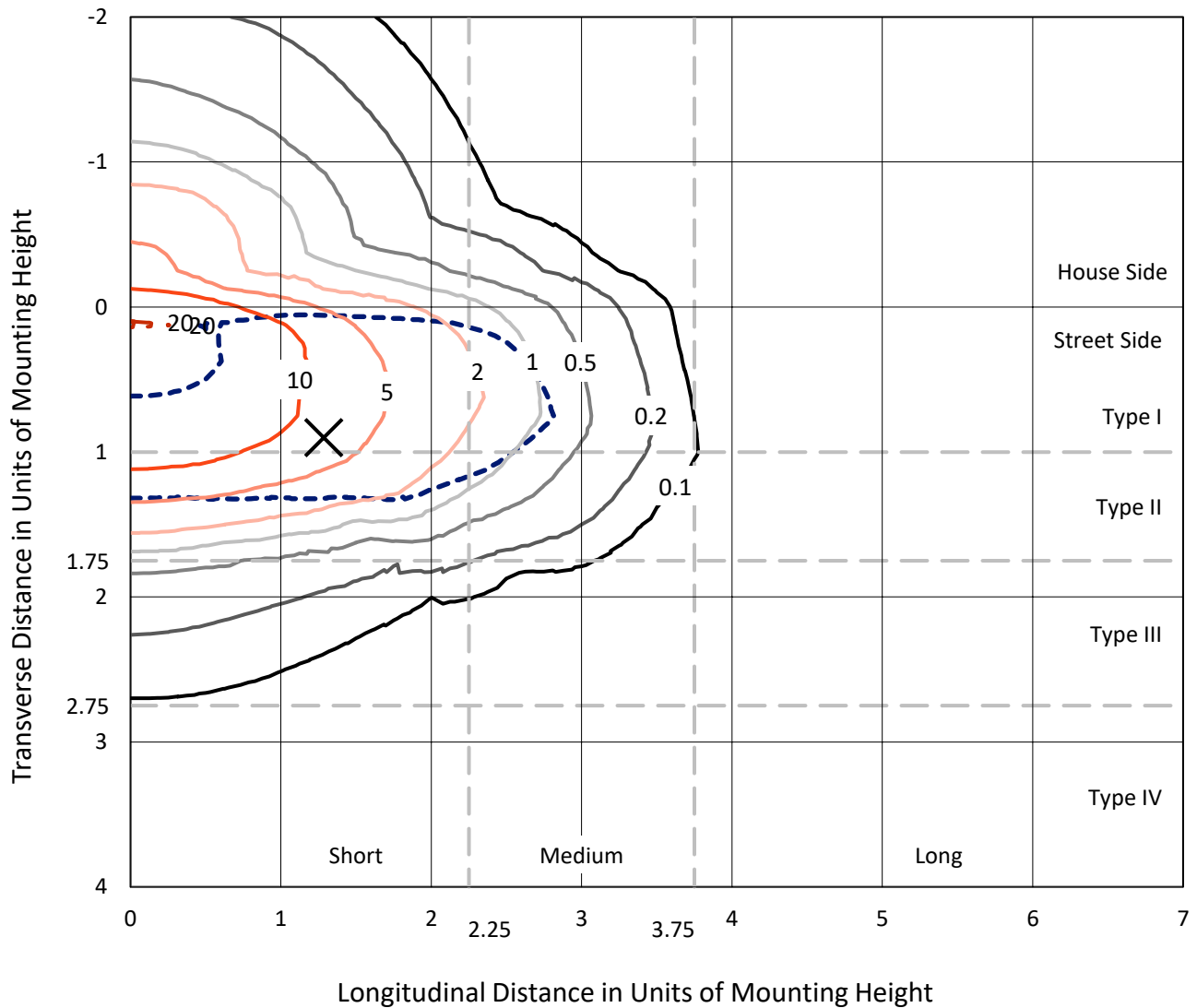
Lumens per Lamp: N/A  
Luminaire Lumens: 42845 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

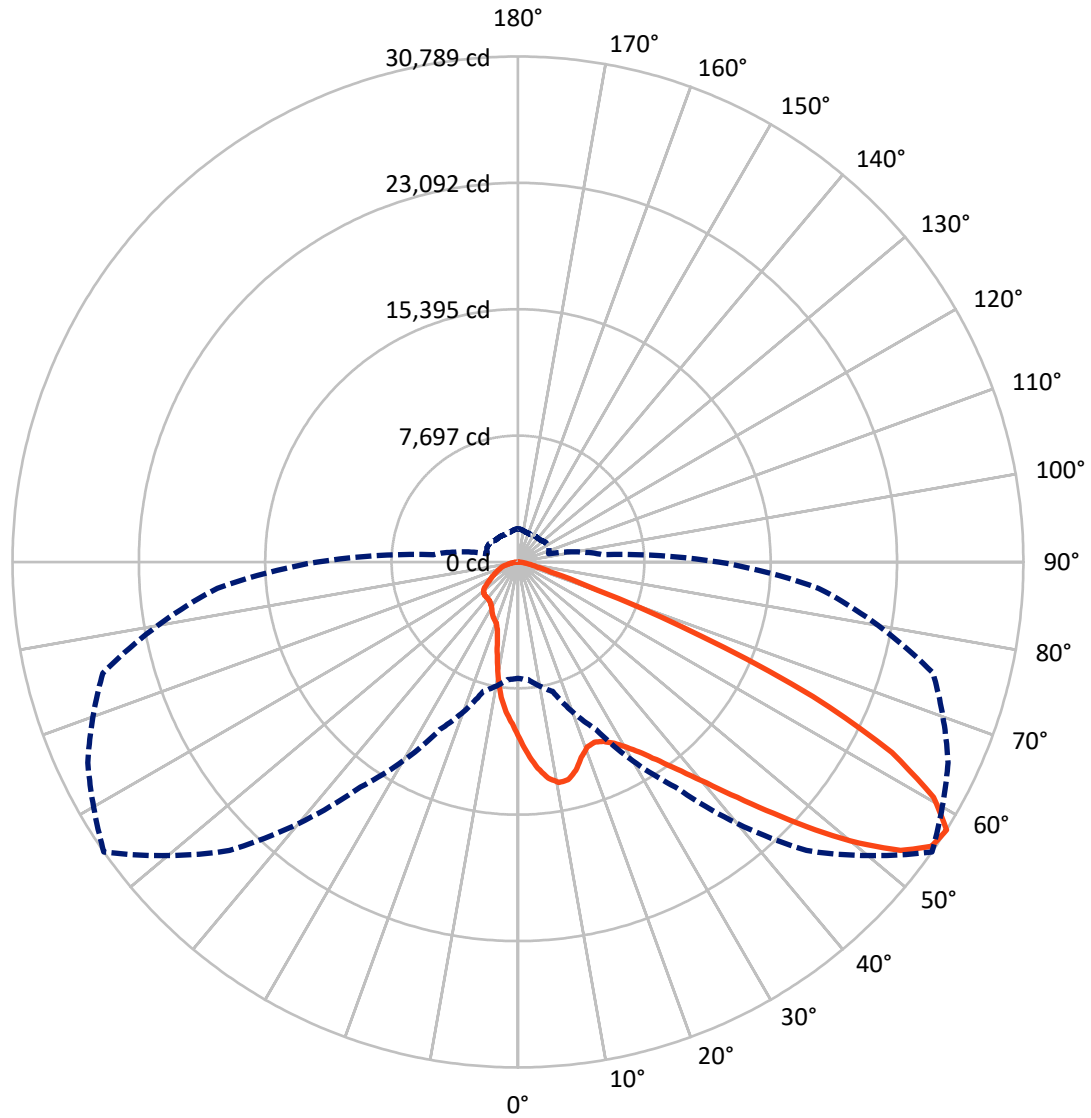
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 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	7752.6	0.0	7752.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	35092.4	0.0	35092.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	42845.0	0.0	42845.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	996.2	2.3
10°-20°	2514.4	5.9
20°-30°	4012.3	9.4
30°-40°	6352.5	14.8
40°-50°	9723.2	22.7
50°-60°	10414.5	24.3
60°-70°	6551.8	15.3
70°-80°	1937.5	4.5
80°-90°	342.6	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°	42845.0	100.0
0°-180°	42845.0	100.0

**Coefficient of Utilization**



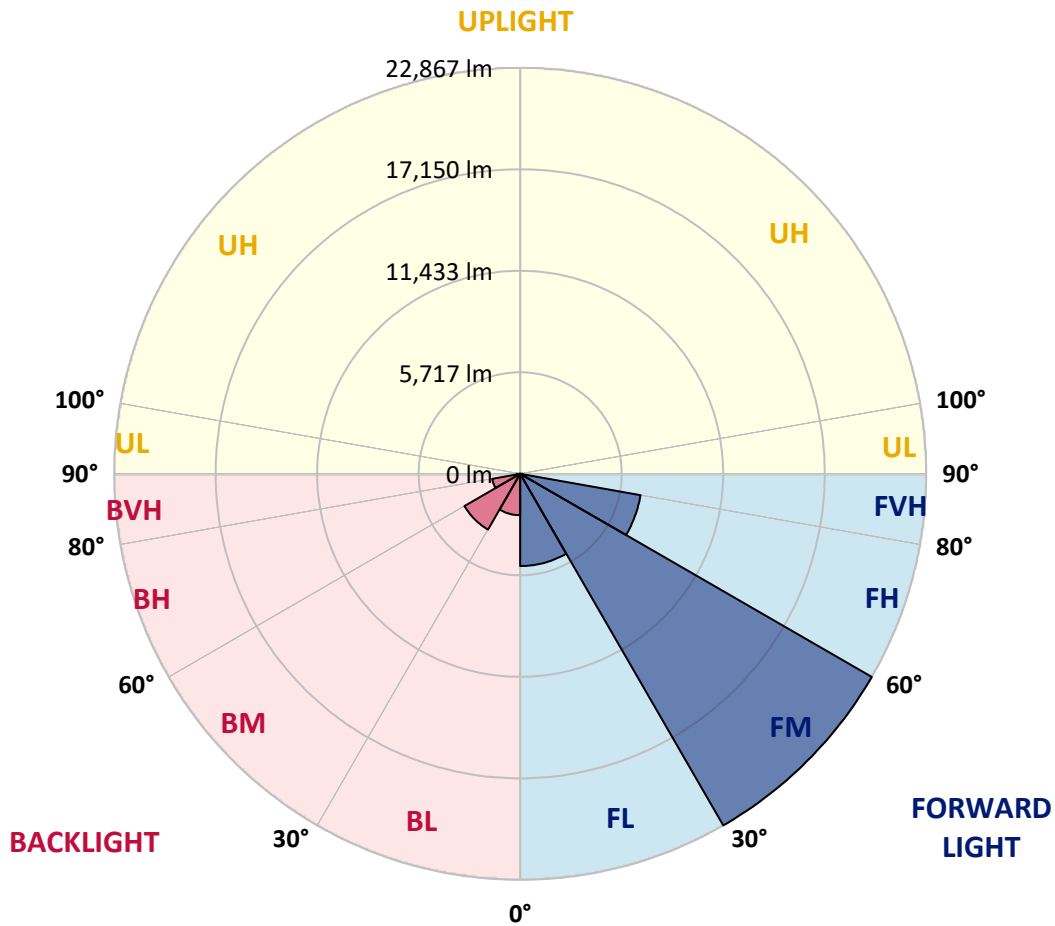
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5192.8	12.1			
FM (30°-60°)	22866.7	53.4			
FH (60°-80°)	6888.2	16.1			G3/7500
FVH (80°-90°)	144.7	0.3			G2/225
BL (0°-30°)	2330.2	5.4	B3/2500		
BM (30°-60°)	3623.5	8.5	B3/5000		
BH (60°-80°)	1601.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	197.8	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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10735.6	10735.6	10735.6	10735.6	10735.6	10735.6	10735.6	10735.6	10735.6	10735.6
2.5°	12317.0	12308.1	12356.9	12190.7	12077.8	11925.0	11723.4	11466.5	11189.6	10897.3
5°	13426.7	13349.1	13400.1	13276.0	13152.0	12921.7	12622.7	12204.0	11692.4	11109.9
7.5°	13251.7	13198.5	13329.2	13439.9	13533.0	13504.2	13284.9	12846.4	12186.3	11340.2
10°	11840.8	11781.0	11964.8	12348.0	12910.6	13400.1	13665.9	13393.4	12691.3	11592.7
12.5°	10596.0	10567.2	10689.1	10999.1	11623.7	12562.8	13617.1	13871.8	13216.2	11891.7
15°	10064.5	10029.0	10106.5	10263.8	10662.5	11537.4	13174.2	14199.7	13732.3	12237.3
17.5°	9947.1	9907.2	9940.4	10022.4	10279.3	10946.0	12505.3	14361.3	14270.5	12622.7
20°	10164.1	10130.9	10135.3	10130.9	10310.3	10839.7	12040.1	14299.3	14740.1	12977.0
22.5°	10689.1	10633.7	10635.9	10518.5	10616.0	11025.7	11918.3	14133.2	15158.7	13287.1
25°	11544.0	11444.3	11464.3	11165.3	11138.7	11442.1	12108.8	14004.7	15575.1	13535.2
27.5°	12713.5	12600.5	12540.7	12095.5	11882.9	12033.5	12496.4	14049.0	15969.3	13750.0
30°	14175.3	14038.0	13916.1	13284.9	12899.5	12844.1	13098.9	14341.4	16434.5	13975.9
32.5°	15967.1	15807.7	15586.2	14748.9	14206.3	13916.1	13878.5	14861.9	16979.3	14263.9
35°	18100.1	17891.9	17577.4	16494.3	15807.7	15214.1	14906.2	15612.8	17725.8	14698.0
37.5°	20297.2	20062.5	19774.5	18485.5	17641.6	16766.7	16159.8	16631.6	18720.2	15287.2
40°	22323.9	22060.3	21792.3	20645.0	19739.1	18684.8	17694.7	17920.7	19936.2	15991.5
42.5°	23519.9	23325.0	23223.1	22602.9	21903.0	20833.2	19604.0	19448.9	21302.8	16802.1
45°	23466.7	23387.0	23701.5	23958.5	23792.3	23198.7	21841.0	21138.9	22673.8	17504.3
47.5°	22213.1	22266.3	22968.4	24412.5	25048.2	25358.3	24388.1	22797.9	23865.4	18029.2
50°	18802.2	18846.5	20472.2	23586.4	25371.6	27119.1	26915.3	24416.9	24789.0	18350.4
52.5°	16102.2	16131.0	16828.7	21136.7	24304.0	28005.1	29192.2	25943.0	25464.6	18438.9
55°	12128.7	12228.4	13010.3	16582.9	21526.5	27302.9	30578.8	27515.6	25892.1	18447.8
57.5°	7085.4	7194.0	8159.7	11256.1	16731.3	24855.5	30789.2	28910.9	26182.2	18376.9
60°	3470.7	3517.2	3938.1	5916.0	10317.0	20140.0	29097.0	29586.5	26343.9	18339.3
62.5°	2338.9	2332.3	2350.0	2919.2	5083.2	12939.4	25570.9	28403.7	26257.5	18195.3
65°	2011.1	1986.8	1920.3	2048.8	2633.5	5918.2	19756.8	24873.2	25599.7	17834.3
67.5°	1738.7	1740.9	1743.1	1703.2	1880.4	2731.0	12073.4	19592.9	23238.6	16124.4
70°	1439.7	1459.6	1468.5	1468.5	1532.7	1791.8	5154.0	13428.9	18330.4	12642.6
72.5°	1311.2	1269.1	1273.6	1251.4	1251.4	1364.4	2075.4	7612.6	11548.4	7112.0
75°	1069.8	1096.4	1100.8	1085.3	1034.4	1041.0	1231.5	3193.9	4941.4	2950.2
77.5°	923.6	923.6	932.5	921.4	881.5	779.6	821.7	1238.1	1681.1	1209.3
80°	742.0	739.8	777.4	799.6	737.6	575.9	524.9	684.4	746.4	531.6
82.5°	361.0	383.2	533.8	609.1	560.4	416.4	321.2	425.3	398.7	234.8
85°	210.4	199.3	239.2	338.9	321.2	230.3	155.0	221.5	208.2	119.6
87.5°	66.4	62.0	48.7	115.2	93.0	64.2	42.1	64.2	57.6	26.6
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°
10735.6	0°	10735.6	10735.6	10735.6	10735.6	10735.6	10735.6	10735.6	10735.6	10735.6	10735.6
10771.0	2.5°	10613.7	10352.4	10093.2	9856.3	9712.3	9619.3	9526.2	9422.1	9382.3	9322.5
10799.8	5°	10507.4	10002.4	9552.8	9165.2	8813.0	8536.2	8257.1	8031.2	7929.3	7998.0
10890.6	7.5°	10445.4	9714.5	9021.2	8310.3	7625.9	7078.8	6602.6	6268.1	6117.5	6155.2
10979.2	10°	10390.0	9388.9	8332.4	7209.5	6226.1	5548.3	5061.0	4806.3	4711.1	4731.0
11098.8	12.5°	10339.1	9023.5	7501.8	6024.5	4979.1	4531.7	4392.1	4394.3	4412.1	4425.3
11289.3	15°	10330.2	8582.7	6573.8	4987.9	4305.7	4277.0	4427.6	4522.8	4573.7	4589.2
11448.8	17.5°	10317.0	8055.6	5628.0	4281.4	4141.8	4336.8	4476.3	4538.3	4578.2	4580.4
11603.8	20°	10263.8	7386.7	4755.4	3944.7	4106.4	4274.7	4361.1	4409.8	4443.1	4454.1
11721.2	22.5°	10099.9	6642.5	4075.4	3794.1	3964.7	4099.8	4201.6	4257.0	4277.0	4290.2
11743.3	25°	9805.3	5809.7	3605.8	3650.1	3767.5	3938.1	4020.0	4031.1	4024.5	4044.4
11688.0	27.5°	9419.9	4917.1	3313.5	3455.2	3605.8	3752.0	3796.3	3789.7	3776.4	3798.5
11592.7	30°	8954.8	4115.3	3127.4	3236.0	3441.9	3574.8	3614.7	3599.2	3572.6	3597.0
11544.0	32.5°	8463.1	3459.7	2974.6	3083.1	3306.8	3437.5	3477.4	3461.9	3441.9	3461.9
11599.4	35°	8004.6	3001.2	2832.8	2981.2	3200.5	3329.0	3379.9	3382.1	3382.1	3406.5
11745.6	37.5°	7583.8	2733.2	2715.5	2917.0	3127.4	3242.6	3315.7	3320.1	3224.9	3231.5
11993.6	40°	7194.0	2620.2	2662.3	2874.9	3056.5	3167.3	3171.7	2923.7	2748.7	2744.2
12277.1	42.5°	6875.0	2598.1	2677.8	2870.5	3005.6	3010.0	2697.7	2505.0	2456.3	2458.5
12538.5	45°	6576.0	2591.4	2713.2	2870.5	2930.3	2600.3	2389.9	2338.9	2343.4	2361.1
12655.9	47.5°	6241.6	2564.8	2719.9	2830.6	2713.2	2312.3	2250.3	2228.2	2219.3	2223.7
12629.3	50°	5876.1	2469.6	2635.7	2750.9	2341.1	2188.3	2110.8	2104.1	2115.2	2121.9
12480.9	52.5°	5490.7	2314.6	2491.7	2606.9	2170.6	2079.8	1993.4	2008.9	2057.6	2073.1
12325.9	55°	5238.2	2132.9	2301.3	2319.0	2051.0	1977.9	1904.8	1940.2	2031.1	2059.8
12232.8	57.5°	5171.8	1940.2	2084.2	2064.3	1898.2	1889.3	1845.0	1876.0	1991.2	2033.3
12228.4	60°	5151.8	1767.5	1871.6	1856.1	1749.8	1791.8	1780.8	1796.3	1836.1	1849.4
12184.1	62.5°	4996.8	1630.2	1681.1	1659.0	1616.9	1690.0	1716.5	1683.3	1714.3	1729.8
11880.7	65°	4602.5	1519.4	1495.0	1479.5	1497.3	1563.7	1616.9	1550.4	1579.2	1623.5
10711.2	67.5°	3951.4	1368.8	1302.4	1320.1	1375.4	1410.9	1479.5	1404.2	1428.6	1503.9
8627.0	70°	3196.1	1178.3	1118.5	1169.5	1222.6	1295.7	1306.8	1255.8	1313.4	1397.6
5264.8	72.5°	2261.4	985.6	943.5	1047.6	1065.4	1160.6	1136.2	1111.9	1191.6	1220.4
2602.5	75°	1568.1	795.1	770.8	850.5	914.7	996.7	979.0	1007.8	1176.1	1189.4
1300.1	77.5°	992.3	618.0	602.4	653.4	742.0	832.8	861.6	1189.4	2008.9	2088.6
675.5	80°	575.9	460.7	443.0	482.8	560.4	644.5	830.6	1459.6	1324.5	1309.0
303.4	82.5°	321.2	316.7	294.6	305.7	374.3	465.1	1173.9	1027.7	835.0	861.6
121.8	85°	150.6	186.1	159.5	152.8	210.4	544.9	784.1	586.9	389.8	381.0
26.6	87.5°	39.9	35.4	35.4	39.9	88.6	469.6	312.3	250.3	148.4	144.0
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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