

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: P956698

Luminaire Tested: **GALN-SB9B-740-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956698  
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-SB9B-740-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

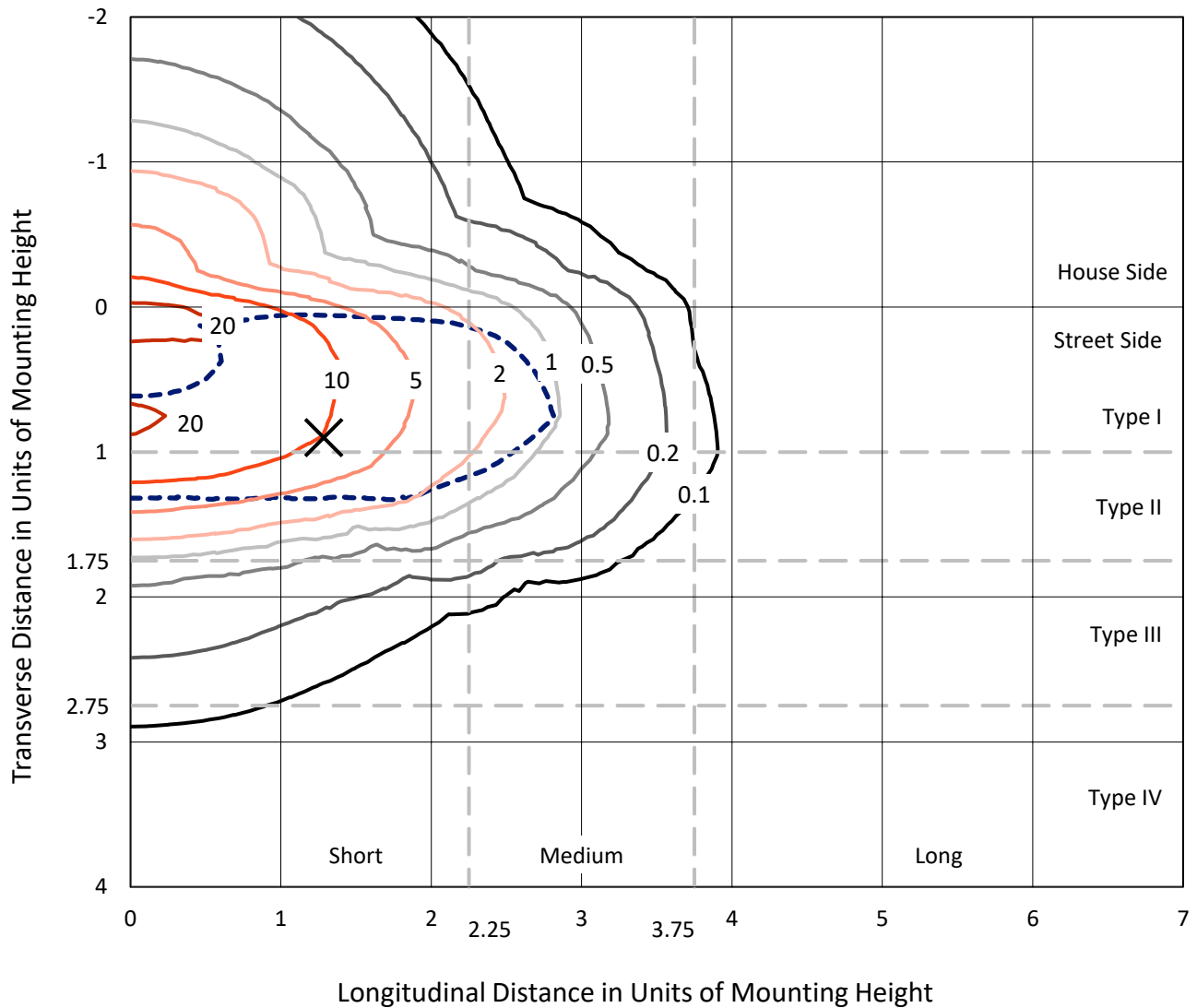
Lumens per Lamp: N/A  
Luminaire Lumens: 55187 lumens  
Efficiency: N/A  
Efficacy: 167.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

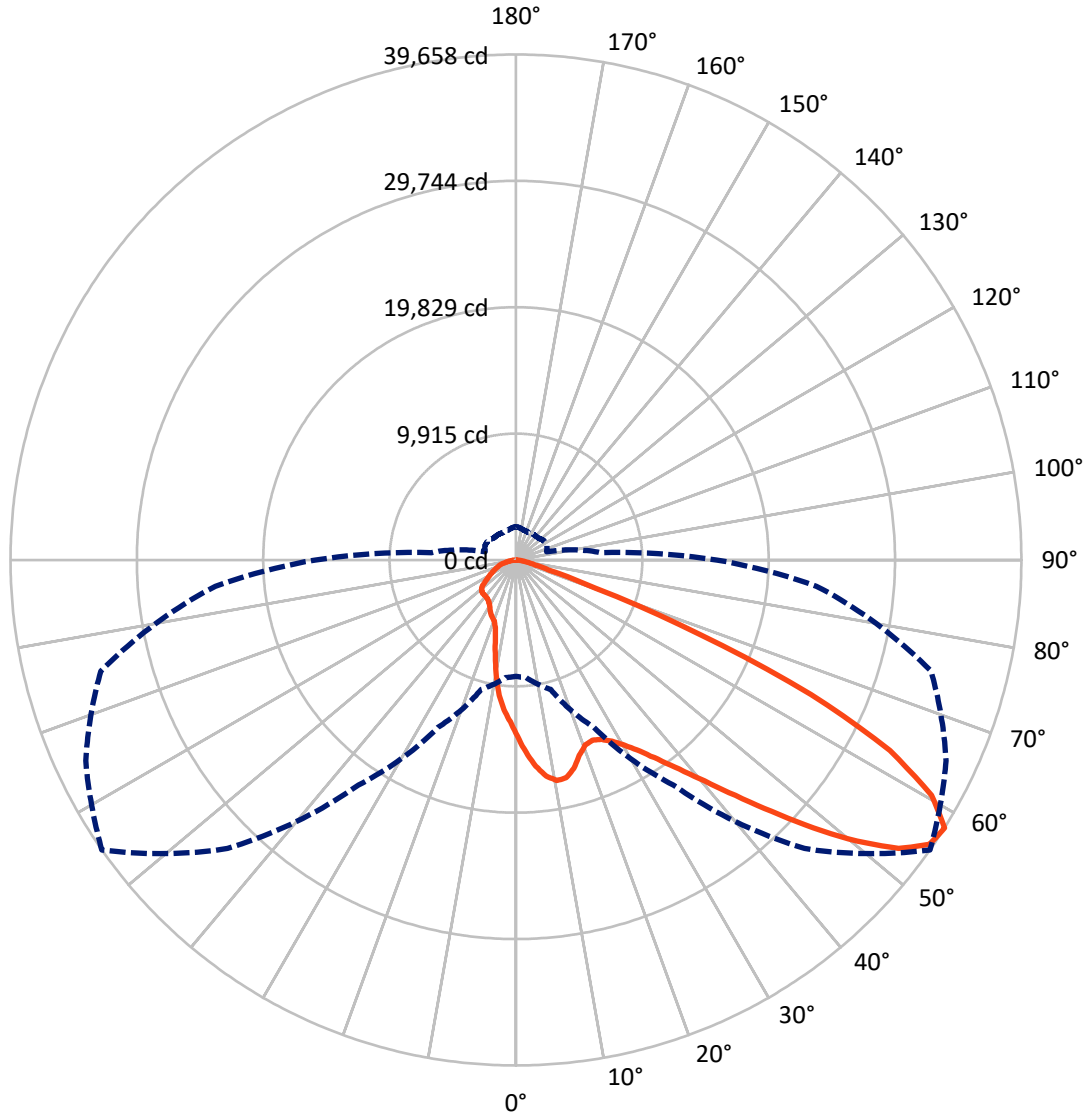
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.7 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	9985.8	0.0	9985.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	45201.2	0.0	45201.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	55187.0	0.0	55187.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1283.2	2.3
10°-20°	3238.8	5.9
20°-30°	5168.1	9.4
30°-40°	8182.5	14.8
40°-50°	12524.1	22.7
50°-60°	13414.5	24.3
60°-70°	8439.1	15.3
70°-80°	2495.6	4.5
80°-90°	441.3	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°	55187.0	100.0
0°-180°	55187.0	100.0

**Coefficient of Utilization**

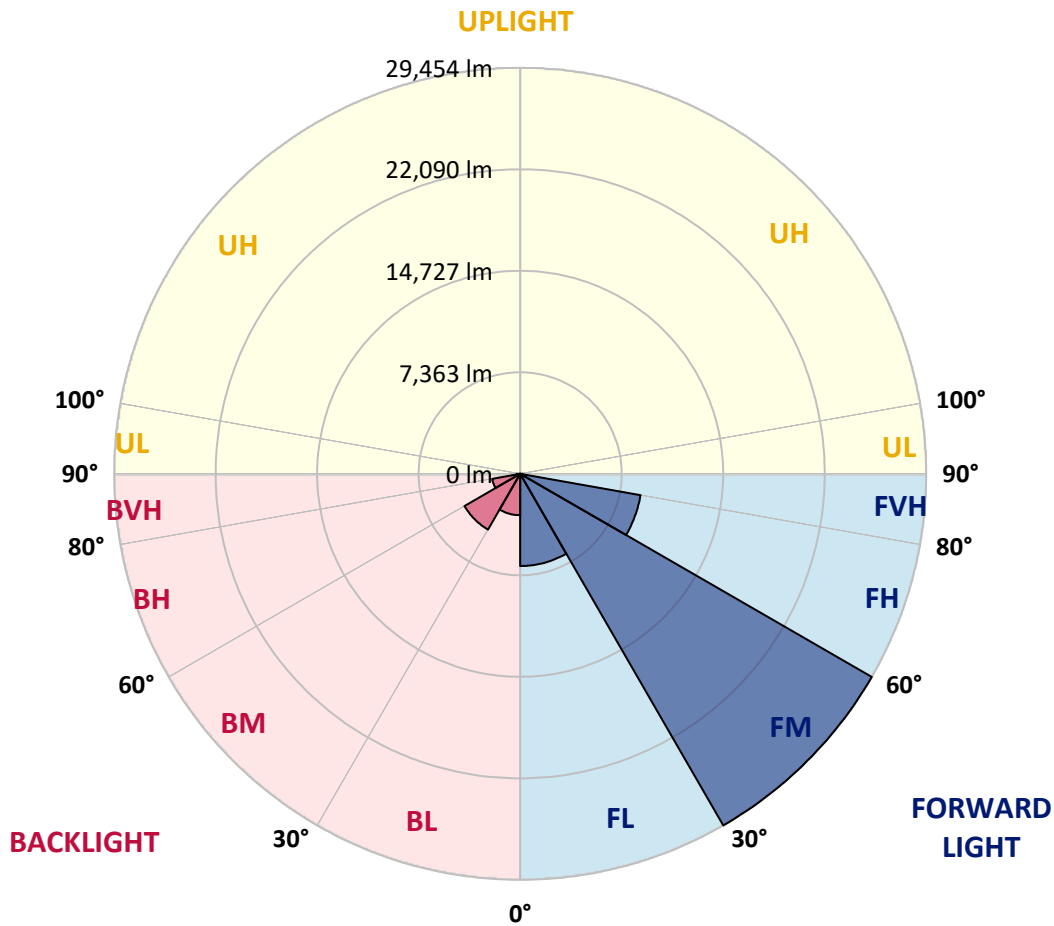


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6688.7	12.1			
FM (30°-60°)	29453.7	53.4			
FH (60°-80°)	8872.4	16.1			G4/12000
FVH (80°-90°)	186.4	0.3			G2/225
BL (0°-30°)	3001.4	5.4	B4/5000		
BM (30°-60°)	4667.3	8.5	B3/5000		
BH (60°-80°)	2062.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	254.8	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13828.1	13828.1	13828.1	13828.1	13828.1	13828.1	13828.1	13828.1	13828.1	13828.1
2.5°	15865.1	15853.6	15916.4	15702.4	15556.9	15360.1	15100.5	14769.5	14412.9	14036.3
5°	17294.4	17194.5	17260.1	17100.4	16940.6	16643.9	16258.8	15719.6	15060.5	14310.2
7.5°	17069.0	17000.5	17168.8	17311.5	17431.3	17394.2	17111.8	16546.9	15696.7	14606.9
10°	15251.7	15174.6	15411.4	15905.0	16629.6	17260.1	17602.5	17251.6	16347.2	14932.1
12.5°	13648.3	13611.2	13768.2	14167.6	14972.1	16181.7	17539.7	17867.8	17023.3	15317.3
15°	12963.6	12918.0	13017.8	13220.4	13733.9	14860.8	16969.1	18290.0	17688.1	15762.3
17.5°	12812.4	12761.1	12803.9	12909.4	13240.4	14099.1	16107.5	18498.3	18381.3	16258.8
20°	13092.0	13049.2	13054.9	13049.2	13280.3	13962.2	15508.4	18418.4	18986.1	16715.2
22.5°	13768.2	13696.8	13699.7	13548.5	13674.0	14201.8	15351.5	18204.4	19525.3	17114.6
25°	14869.4	14741.0	14766.7	14381.5	14347.3	14738.2	15596.9	18039.0	20061.7	17434.2
27.5°	16375.7	16230.2	16153.2	15579.8	15305.9	15499.9	16096.1	18096.0	20569.5	17710.9
30°	18258.6	18081.8	17924.9	17111.8	16615.4	16544.0	16872.1	18472.6	21168.6	18001.9
32.5°	20566.7	20361.2	20076.0	18997.5	18298.6	17924.9	17876.4	19143.0	21870.4	18372.8
35°	23314.0	23045.8	22640.7	21245.6	20361.2	19596.7	19200.1	20110.2	22831.9	18931.9
37.5°	26144.1	25841.7	25470.8	23810.4	22723.5	21596.6	20814.9	21422.5	24112.8	19690.8
40°	28754.5	28415.0	28069.8	26592.0	25425.2	24067.2	22791.9	23082.9	25679.1	20598.0
42.5°	30295.1	30044.0	29912.8	29114.0	28212.5	26834.5	25251.1	25051.4	27439.3	21642.2
45°	30226.6	30123.9	30529.0	30860.0	30646.0	29881.4	28132.6	27228.2	29205.3	22546.6
47.5°	28611.9	28680.3	29584.7	31444.8	32263.6	32663.0	31413.4	29365.0	30740.1	23222.7
50°	24218.4	24275.4	26369.5	30380.7	32680.1	34931.1	34668.6	31450.5	31929.8	23636.4
52.5°	20740.7	20777.8	21676.4	27225.4	31305.0	36072.2	37601.4	33416.2	32799.9	23750.5
55°	15622.6	15750.9	16758.0	21359.8	27727.5	35167.9	39387.3	35441.7	33350.6	23761.9
57.5°	9126.5	9266.3	10510.1	14498.5	21550.9	32015.4	39658.3	37239.1	33724.3	23670.6
60°	4470.5	4530.4	5072.5	7620.1	13288.9	25941.5	37478.7	38109.2	33932.6	23622.1
62.5°	3012.7	3004.1	3026.9	3760.1	6547.4	16666.7	32936.9	36585.8	33821.3	23436.7
65°	2590.4	2559.1	2473.5	2638.9	3392.1	7623.0	25448.0	32038.2	32974.0	22971.7
67.5°	2239.5	2242.4	2245.2	2193.9	2422.1	3517.6	15551.2	25236.9	29932.8	20769.2
70°	1854.4	1880.1	1891.5	1891.5	1974.2	2308.0	6638.7	17297.2	23610.7	16284.4
72.5°	1688.9	1634.7	1640.4	1611.9	1611.9	1757.4	2673.2	9805.5	14875.1	9160.7
75°	1378.0	1412.2	1417.9	1397.9	1332.3	1340.9	1586.2	4113.9	6364.8	3800.1
77.5°	1189.7	1189.7	1201.1	1186.8	1135.5	1004.2	1058.4	1594.8	2165.4	1557.7
80°	955.7	952.9	1001.4	1029.9	950.0	741.8	676.1	881.6	961.4	684.7
82.5°	465.0	493.6	687.6	784.6	721.8	536.3	413.7	547.8	513.5	302.4
85°	271.0	256.8	308.1	436.5	413.7	296.7	199.7	285.3	268.2	154.1
87.5°	85.6	79.9	62.8	148.4	119.8	82.7	54.2	82.7	74.2	34.2
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°
13828.1	0°	13828.1	13828.1	13828.1	13828.1	13828.1	13828.1	13828.1	13828.1	13828.1	13828.1
13873.7	2.5°	13671.2	13334.5	13000.7	12695.5	12510.0	12390.2	12270.4	12136.3	12084.9	12007.9
13910.8	5°	13534.2	12883.8	12304.6	11805.4	11351.7	10995.1	10635.7	10344.7	10213.4	10301.9
14027.8	7.5°	13454.3	12512.9	11619.9	10704.1	9822.6	9117.9	8504.5	8073.7	7879.7	7928.2
14141.9	10°	13383.0	12093.5	10732.7	9286.2	8019.5	7146.5	6518.9	6190.8	6068.1	6093.8
14295.9	12.5°	13317.4	11622.8	9662.8	7759.9	6413.3	5837.1	5657.3	5660.2	5683.0	5700.1
14541.3	15°	13306.0	11055.0	8467.4	6424.8	5546.1	5509.0	5703.0	5825.6	5891.3	5911.2
14746.7	17.5°	13288.9	10376.0	7249.3	5514.7	5334.9	5586.0	5765.7	5845.6	5897.0	5899.8
14946.4	20°	13220.4	9514.5	6125.2	5081.0	5289.3	5506.1	5617.4	5680.2	5722.9	5737.2
15097.6	22.5°	13009.3	8555.9	5249.4	4887.0	5106.7	5280.7	5412.0	5483.3	5509.0	5526.1
15126.1	25°	12629.8	7483.2	4644.5	4701.6	4852.8	5072.5	5178.0	5192.3	5183.7	5209.4
15054.8	27.5°	12133.4	6333.5	4268.0	4450.5	4644.5	4832.8	4889.9	4881.3	4864.2	4892.7
14932.1	30°	11534.3	5300.7	4028.3	4168.1	4433.4	4604.6	4656.0	4636.0	4601.7	4633.1
14869.4	32.5°	10901.0	4456.3	3831.5	3971.3	4259.4	4427.7	4479.1	4459.1	4433.4	4459.1
14940.7	35°	10310.4	3865.7	3648.9	3840.0	4122.5	4287.9	4353.5	4356.4	4356.4	4387.8
15129.0	37.5°	9768.4	3520.5	3497.7	3757.3	4028.3	4176.7	4270.8	4276.5	4153.8	4162.4
15448.5	40°	9266.3	3375.0	3429.2	3703.1	3937.0	4079.7	4085.4	3765.8	3540.5	3534.8
15813.7	42.5°	8855.4	3346.5	3449.2	3697.4	3871.4	3877.1	3474.8	3226.6	3163.9	3166.7
16150.3	45°	8470.3	3337.9	3494.8	3697.4	3774.4	3349.3	3078.3	3012.7	3018.4	3041.2
16301.5	47.5°	8039.5	3303.7	3503.4	3646.0	3494.8	2978.4	2898.6	2870.0	2858.6	2864.3
16267.3	50°	7568.8	3181.0	3395.0	3543.3	3015.5	2818.7	2718.8	2710.3	2724.5	2733.1
16076.2	52.5°	7072.4	2981.3	3209.5	3357.9	2795.9	2678.9	2567.6	2587.6	2650.4	2670.3
15876.5	55°	6747.1	2747.4	2964.2	2987.0	2641.8	2547.7	2453.5	2499.2	2616.1	2653.2
15756.6	57.5°	6661.6	2499.2	2684.6	2658.9	2444.9	2433.5	2376.5	2416.4	2564.8	2619.0
15750.9	60°	6635.9	2276.6	2410.7	2390.7	2253.8	2308.0	2293.7	2313.7	2365.1	2382.2
15693.9	62.5°	6436.2	2099.7	2165.4	2136.8	2082.6	2176.8	2211.0	2168.2	2208.2	2228.1
15303.0	65°	5928.4	1957.1	1925.7	1905.7	1928.6	2014.2	2082.6	1997.0	2034.1	2091.2
13796.7	67.5°	5089.6	1763.1	1677.5	1700.3	1771.7	1817.3	1905.7	1808.7	1840.1	1937.1
11112.1	70°	4116.8	1517.7	1440.7	1506.3	1574.8	1669.0	1683.2	1617.6	1691.8	1800.2
6781.4	72.5°	2912.8	1269.5	1215.3	1349.4	1372.3	1494.9	1463.5	1432.2	1534.9	1572.0
3352.2	75°	2019.9	1024.2	992.8	1095.5	1178.3	1283.8	1261.0	1298.1	1514.9	1532.0
1674.7	77.5°	1278.1	796.0	776.0	841.6	955.7	1072.7	1109.8	1532.0	2587.6	2690.3
870.1	80°	741.8	593.4	570.6	621.9	721.8	830.2	1069.8	1880.1	1706.0	1686.1
390.8	82.5°	413.7	408.0	379.4	393.7	482.1	599.1	1512.0	1323.8	1075.5	1109.8
156.9	85°	194.0	239.6	205.4	196.9	271.0	701.8	1009.9	756.0	502.1	490.7
34.2	87.5°	51.4	45.6	45.6	51.4	114.1	604.8	402.3	322.4	191.1	185.4
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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