

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: P954640

Luminaire Tested: **GALN-SB7D-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954640
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-SB7D-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66134 lumens
Efficiency: N/A
Efficacy: 129.0 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

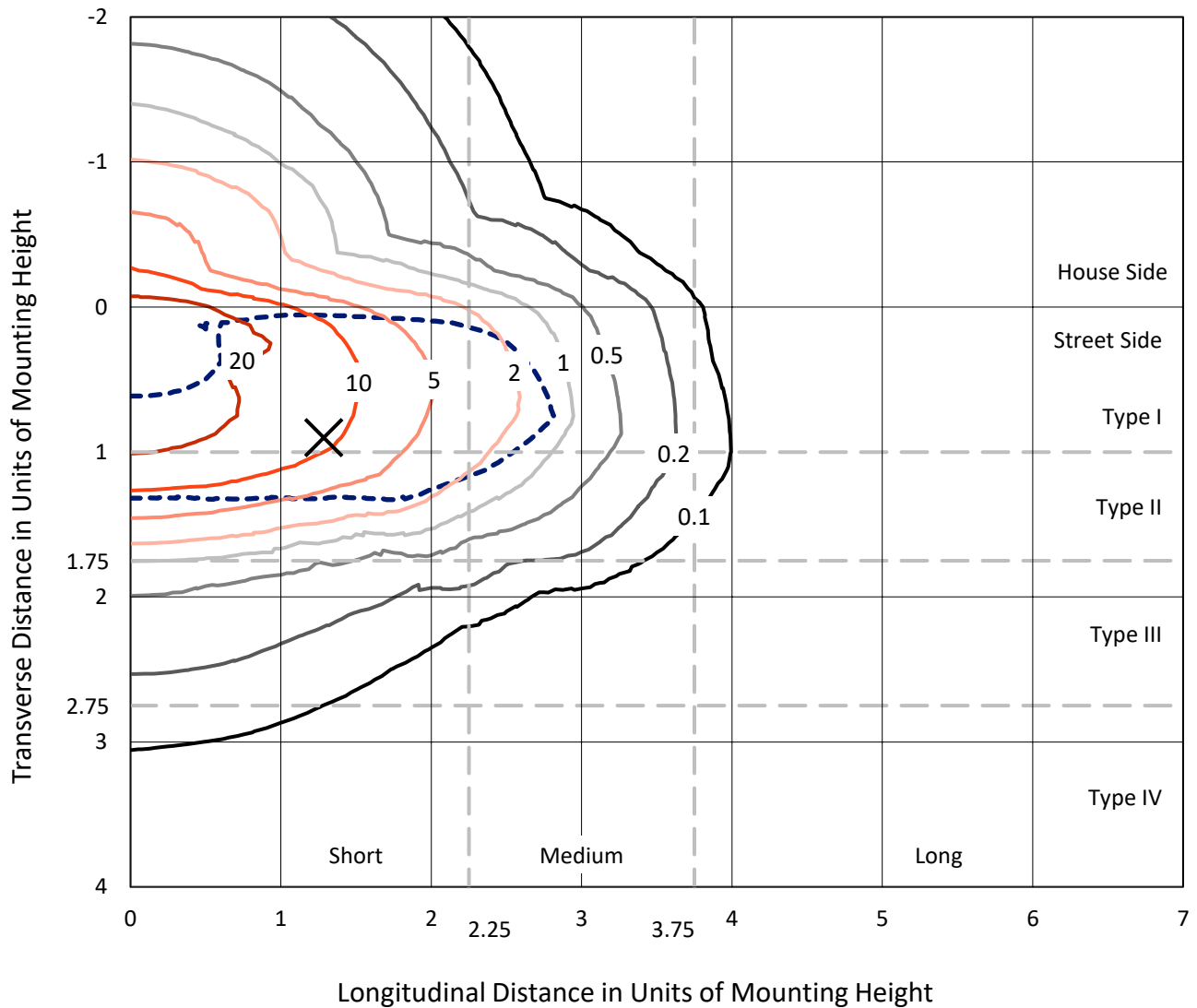
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

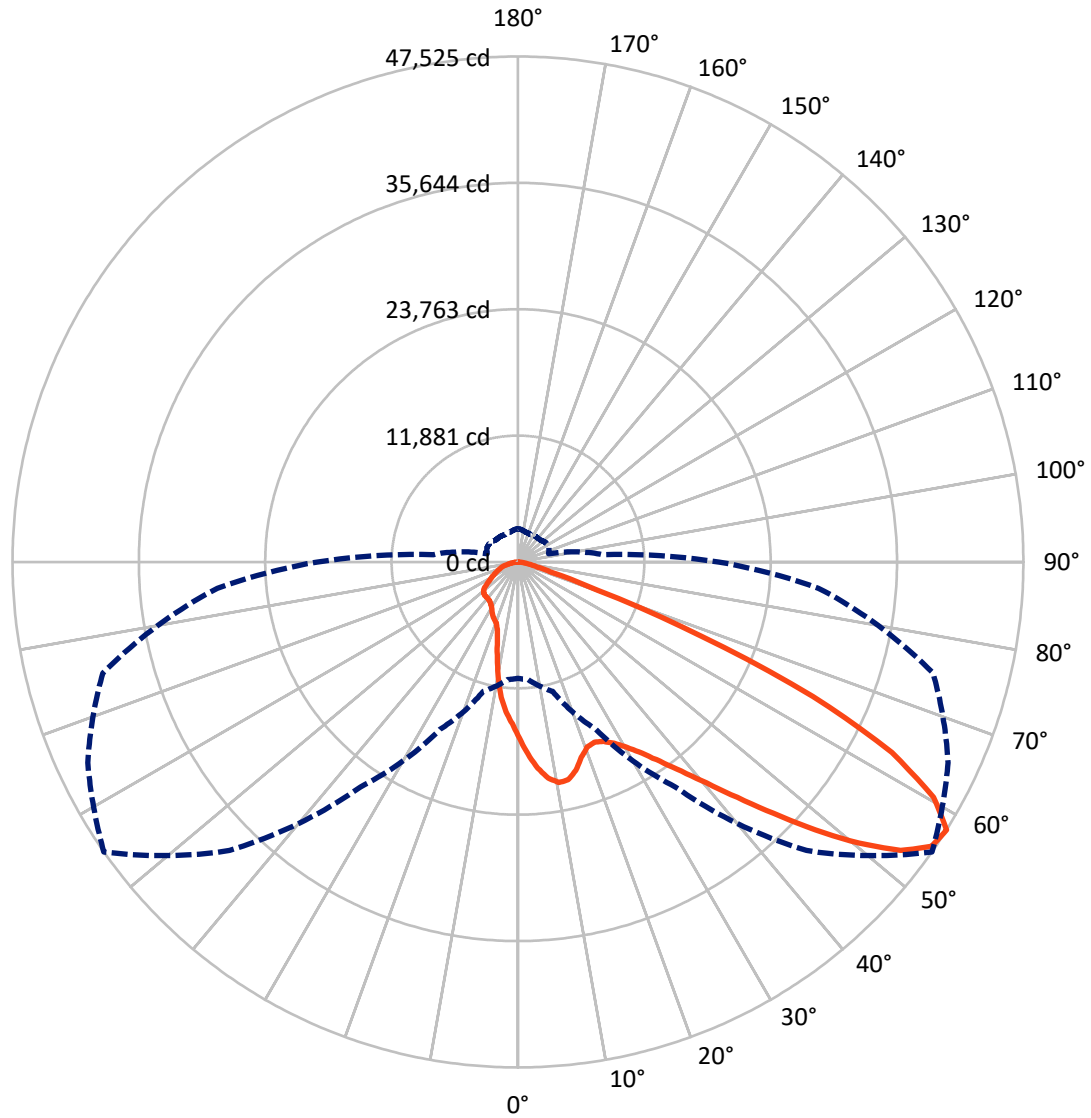
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32 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
House Side	Lumens	11966.6	0.0	11966.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	54167.4	0.0	54167.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	66134.0	0.0	66134.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1537.7	2.3
10°-20°	3881.2	5.9
20°-30°	6193.3	9.4
30°-40°	9805.5	14.8
40°-50°	15008.4	22.7
50°-60°	16075.4	24.3
60°-70°	10113.1	15.3
70°-80°	2990.6	4.5
80°-90°	528.8	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°	66134.0	100.0
0°-180°	66134.0	100.0



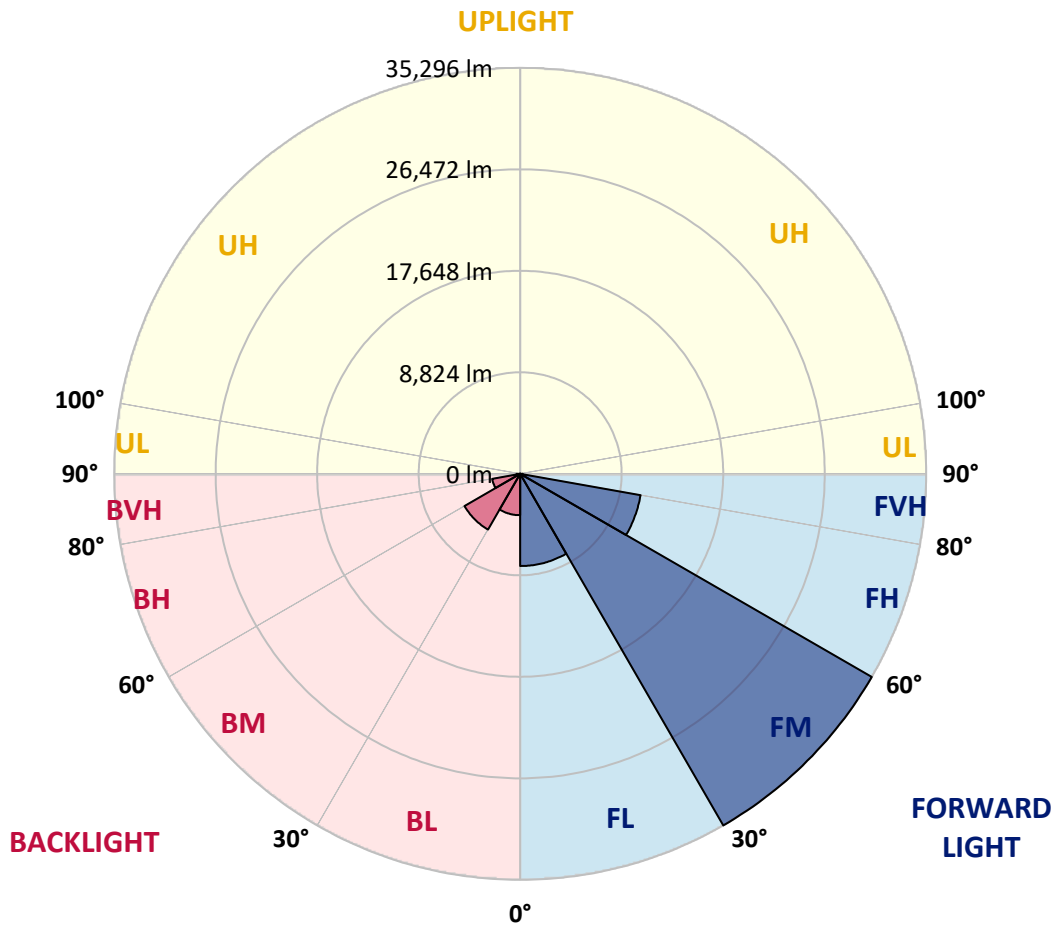
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8015.4	12.1			
FM (30°-60°)	35296.2	53.4			
FH (60°-80°)	10632.3	16.1			G4/12000
FVH (80°-90°)	223.4	0.3			G2/225
BL (0°-30°)	3596.8	5.4	B4/5000		
BM (30°-60°)	5593.1	8.5	B4/8500		
BH (60°-80°)	2471.4	3.7	B3/2500		G3/2500
BVH (80°-90°)	305.4	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°	16571.0	16571.0	16571.0	16571.0	16571.0	16571.0	16571.0	16571.0	16571.0	16571.0
2.5°	19012.1	18998.4	19073.6	18817.2	18642.8	18406.9	18095.8	17699.2	17271.9	16820.6
5°	20724.9	20605.2	20683.9	20492.4	20301.0	19945.4	19483.9	18837.7	18048.0	17148.8
7.5°	20454.8	20372.8	20574.5	20745.4	20889.0	20844.6	20506.1	19829.2	18810.4	17504.4
10°	18277.0	18184.7	18468.5	19059.9	19928.3	20683.9	21094.1	20673.6	19589.9	17894.1
12.5°	16355.6	16311.2	16499.2	16977.9	17942.0	19391.6	21018.9	21412.1	20400.1	18355.7
15°	15535.1	15480.4	15600.1	15842.8	16458.2	17808.6	20335.2	21918.1	21196.7	18889.0
17.5°	15353.9	15292.4	15343.7	15470.2	15866.8	16895.8	19302.7	22167.6	22027.5	19483.9
20°	15689.0	15637.7	15644.5	15637.7	15914.6	16731.7	18584.7	22071.9	22752.3	20030.9
22.5°	16499.2	16413.8	16417.2	16236.0	16386.4	17018.9	18396.7	21815.5	23398.4	20509.5
25°	17818.9	17665.1	17695.8	17234.3	17193.3	17661.6	18690.7	21617.2	24041.2	20892.4
27.5°	19624.0	19449.7	19357.4	18670.2	18342.0	18574.5	19289.0	21685.6	24649.7	21224.1
30°	21880.5	21668.5	21480.5	20506.1	19911.2	19825.8	20218.9	22136.9	25367.7	21572.8
32.5°	24646.3	24400.1	24058.3	22765.9	21928.3	21480.5	21422.3	22940.3	26208.7	22017.2
35°	27938.6	27617.2	27131.8	25460.0	24400.1	23483.9	23008.7	24099.3	27360.8	22687.3
37.5°	31330.1	30967.7	30523.2	28533.5	27230.9	25880.5	24943.7	25671.9	28895.9	23596.7
40°	34458.3	34051.5	33637.8	31866.8	30468.5	28841.2	27313.0	27661.7	30772.8	24683.9
42.5°	36304.5	36003.6	35846.4	34889.1	33808.7	32157.4	30260.0	30020.7	32882.2	25935.2
45°	36222.4	36099.3	36584.8	36981.4	36725.0	35808.7	33713.0	32629.2	34998.5	27019.0
47.5°	34287.4	34369.4	35453.2	37682.3	38663.5	39142.1	37644.7	35189.9	36837.8	27829.2
50°	29022.4	29090.8	31600.2	36407.0	39162.6	41860.1	41545.5	37689.1	38263.5	28324.9
52.5°	24854.8	24899.3	25976.2	32625.8	37514.7	43227.6	45060.1	40044.7	39306.2	28461.7
55°	18721.5	18875.3	20082.2	25596.7	33227.5	42143.8	47200.3	42472.0	39966.0	28475.4
57.5°	10936.8	11104.3	12594.9	17374.5	25825.8	38366.0	47525.1	44625.9	40413.9	28366.0
60°	5357.3	5429.1	6078.7	9131.7	15924.9	31087.4	44913.1	45668.6	40663.5	28307.9
62.5°	3610.3	3600.0	3627.4	4506.0	7846.2	19972.8	39470.3	43843.0	40530.1	28085.6
65°	3104.3	3066.7	2964.1	3162.4	4065.0	9135.1	30495.9	38393.4	39514.8	27528.4
67.5°	2683.8	2687.2	2690.6	2629.1	2902.6	4215.4	18636.0	30242.9	35870.3	24889.0
70°	2222.2	2253.0	2266.7	2266.7	2365.8	2765.8	7955.6	20728.3	28294.2	19514.6
72.5°	2023.9	1959.0	1965.8	1931.6	1931.6	2106.0	3203.4	11750.5	17825.7	10977.8
75°	1651.3	1692.3	1699.2	1675.2	1596.6	1606.8	1900.9	4929.9	7627.4	4553.9
77.5°	1425.6	1425.6	1439.3	1422.2	1360.7	1203.4	1268.4	1911.1	2594.9	1866.7
80°	1145.3	1141.9	1200.0	1234.2	1138.5	888.9	810.3	1056.4	1152.1	820.5
82.5°	557.3	591.5	823.9	940.2	865.0	642.7	495.7	656.4	615.4	362.4
85°	324.8	307.7	369.2	523.1	495.7	355.6	239.3	341.9	321.4	184.6
87.5°	102.6	95.7	75.2	177.8	143.6	99.1	65.0	99.1	88.9	41.0
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
16571.0	0°	16571.0	16571.0	16571.0	16571.0	16571.0	16571.0	16571.0	16571.0	16571.0	16571.0
16625.7	2.5°	16383.0	15979.6	15579.6	15213.8	14991.5	14847.9	14704.4	14543.7	14482.1	14389.8
16670.2	5°	16218.9	15439.4	14745.4	14147.1	13603.5	13176.1	12745.4	12396.7	12239.4	12345.4
16810.4	7.5°	16123.2	14995.0	13924.9	12827.4	11771.0	10926.6	10191.5	9675.3	9442.8	9500.9
16947.1	10°	16037.7	14492.4	12861.6	11128.3	9610.3	8564.2	7812.0	7418.8	7271.8	7302.6
17131.7	12.5°	15959.1	13928.3	11579.6	9299.2	7685.5	6994.9	6779.5	6782.9	6810.3	6830.8
17425.7	15°	15945.4	13247.9	10147.1	7699.2	6646.2	6601.7	6834.2	6981.2	7059.9	7083.8
17671.9	17.5°	15924.9	12434.3	8687.2	6608.6	6393.2	6694.1	6909.4	7005.2	7066.7	7070.1
17911.2	20°	15842.8	11401.8	7340.2	6088.9	6338.5	6598.3	6731.7	6806.9	6858.2	6875.3
18092.4	22.5°	15589.8	10253.0	6290.6	5856.4	6119.7	6328.2	6485.5	6571.0	6601.7	6622.3
18126.6	25°	15135.1	8967.6	5565.8	5634.2	5815.4	6078.7	6205.2	6222.3	6212.0	6242.8
18041.1	27.5°	14540.3	7589.8	5114.6	5333.4	5565.8	5791.5	5859.9	5849.6	5829.1	5863.3
17894.1	30°	13822.3	6352.2	4827.4	4994.9	5312.9	5518.0	5579.5	5555.6	5514.6	5552.2
17818.9	32.5°	13063.3	5340.2	4591.5	4759.0	5104.3	5306.0	5367.6	5343.6	5312.9	5343.6
17904.4	35°	12355.6	4632.5	4372.7	4601.7	4940.2	5138.5	5217.1	5220.5	5220.5	5258.1
18130.0	37.5°	11706.0	4218.8	4191.5	4502.6	4827.4	5005.2	5118.0	5124.8	4977.8	4988.1
18512.9	40°	11104.3	4044.5	4109.4	4437.6	4718.0	4888.9	4895.8	4512.8	4242.8	4235.9
18950.5	42.5°	10612.0	4010.3	4133.4	4430.8	4639.3	4646.2	4164.1	3866.7	3791.5	3794.9
19354.0	45°	10150.5	4000.0	4188.1	4430.8	4523.1	4013.7	3688.9	3610.3	3617.1	3644.5
19535.2	47.5°	9634.2	3959.0	4198.3	4369.3	4188.1	3569.3	3473.5	3439.3	3425.7	3432.5
19494.1	50°	9070.1	3812.0	4068.4	4246.2	3613.7	3377.8	3258.1	3247.9	3265.0	3275.2
19265.1	52.5°	8475.3	3572.7	3846.2	4024.0	3350.4	3210.3	3076.9	3100.9	3176.1	3200.0
19025.7	55°	8085.5	3292.3	3552.2	3579.5	3165.8	3053.0	2940.2	2994.9	3135.1	3179.5
18882.2	57.5°	7983.0	2994.9	3217.1	3186.3	2929.9	2916.3	2847.9	2895.7	3073.5	3138.5
18875.3	60°	7952.2	2728.2	2888.9	2865.0	2700.9	2765.8	2748.7	2772.7	2834.2	2854.7
18806.9	62.5°	7712.9	2516.3	2594.9	2560.7	2495.7	2608.6	2649.6	2598.3	2646.2	2670.1
18338.6	65°	7104.3	2345.3	2307.7	2283.8	2311.1	2413.7	2495.7	2393.2	2437.6	2506.0
16533.4	67.5°	6099.2	2112.8	2010.3	2037.6	2123.1	2177.8	2283.8	2167.5	2205.1	2321.4
13316.3	70°	4933.4	1818.8	1726.5	1805.1	1887.2	2000.0	2017.1	1938.5	2027.4	2157.3
8126.5	72.5°	3490.6	1521.4	1456.4	1617.1	1644.5	1791.5	1753.9	1716.2	1839.3	1883.8
4017.1	75°	2420.5	1227.4	1189.8	1312.8	1412.0	1538.5	1511.1	1555.6	1815.4	1835.9
2006.8	77.5°	1531.6	953.9	929.9	1008.6	1145.3	1285.5	1329.9	1835.9	3100.9	3223.9
1042.7	80°	888.9	711.1	683.8	745.3	865.0	994.9	1282.1	2253.0	2044.5	2020.5
468.4	82.5°	495.7	488.9	454.7	471.8	577.8	718.0	1812.0	1586.3	1288.9	1329.9
188.0	85°	232.5	287.2	246.2	235.9	324.8	841.0	1210.3	906.0	601.7	588.0
41.0	87.5°	61.5	54.7	54.7	61.5	136.8	724.8	482.1	386.3	229.1	222.2
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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