

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: P955396

Luminaire Tested: **GALN-SB8B-840-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955396
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-SB8B-840-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44295 lumens
Efficiency: N/A
Efficacy: 151.3 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

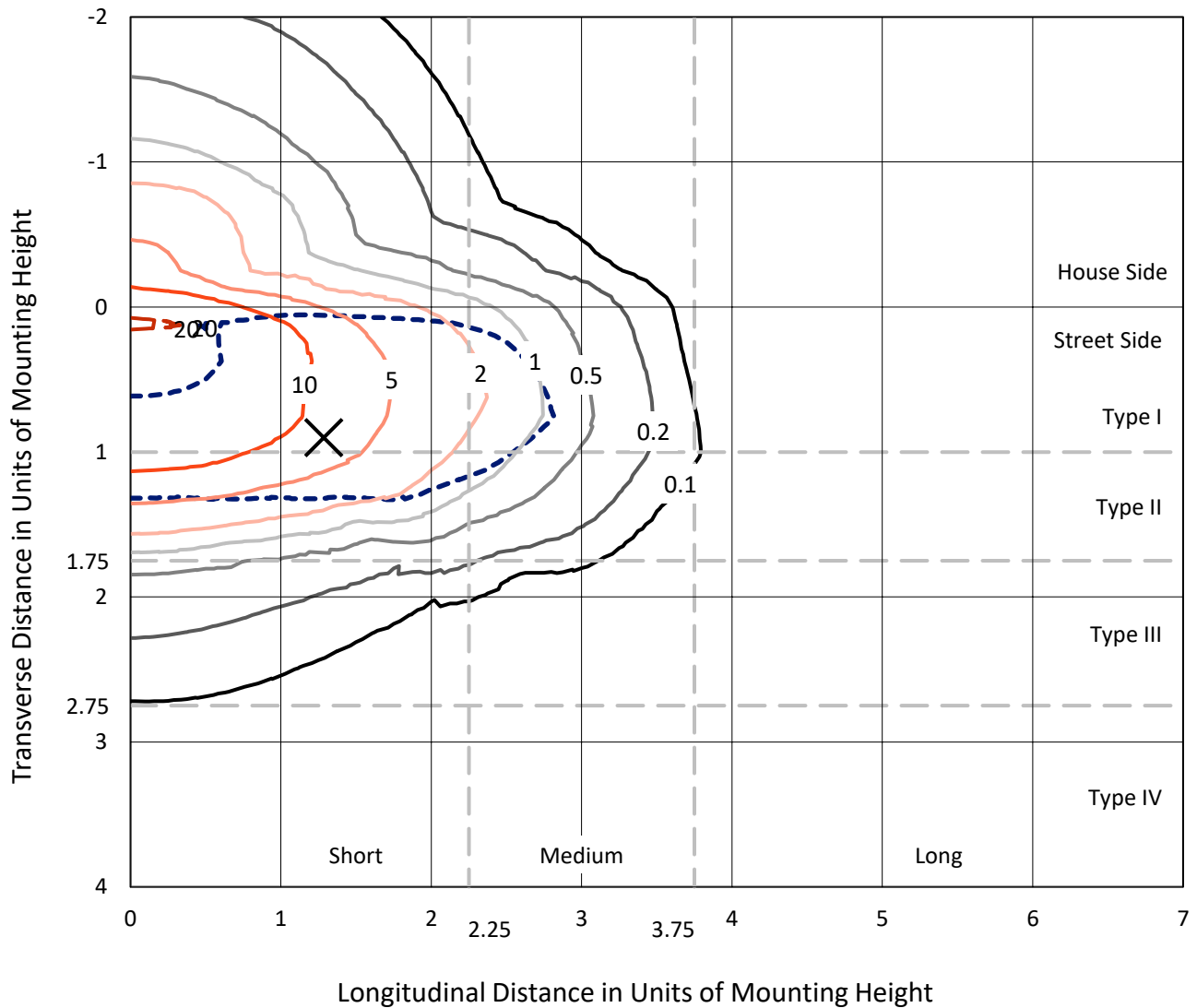
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

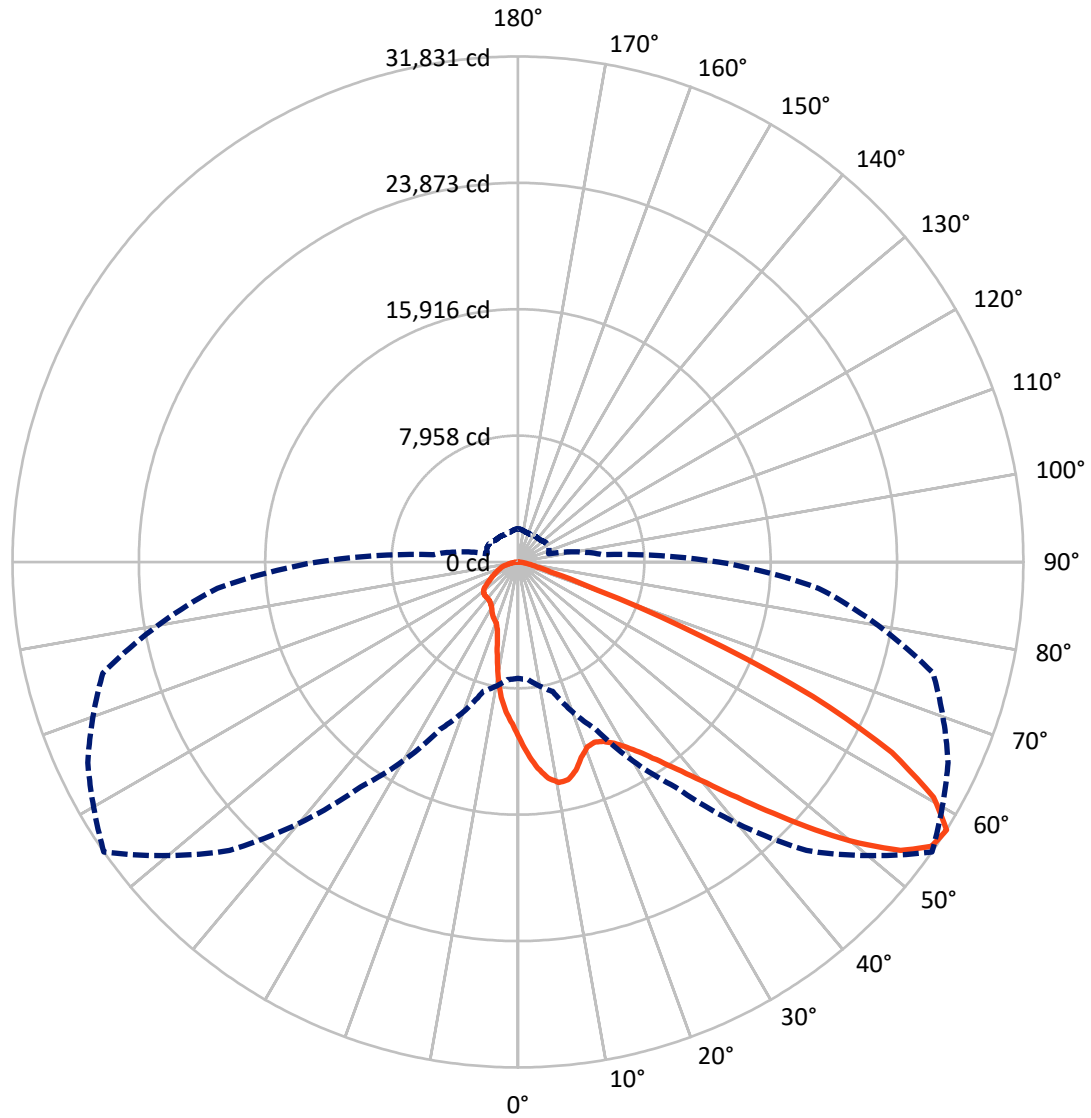
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 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	8015.0	0.0	8015.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	36280.0	0.0	36280.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	44295.0	0.0	44295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1029.9	2.3
10°-20°	2599.5	5.9
20°-30°	4148.1	9.4
30°-40°	6567.5	14.8
40°-50°	10052.3	22.7
50°-60°	10766.9	24.3
60°-70°	6773.5	15.3
70°-80°	2003.1	4.5
80°-90°	354.2	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°	44295.0	100.0
0°-180°	44295.0	100.0

Coefficient of Utilization



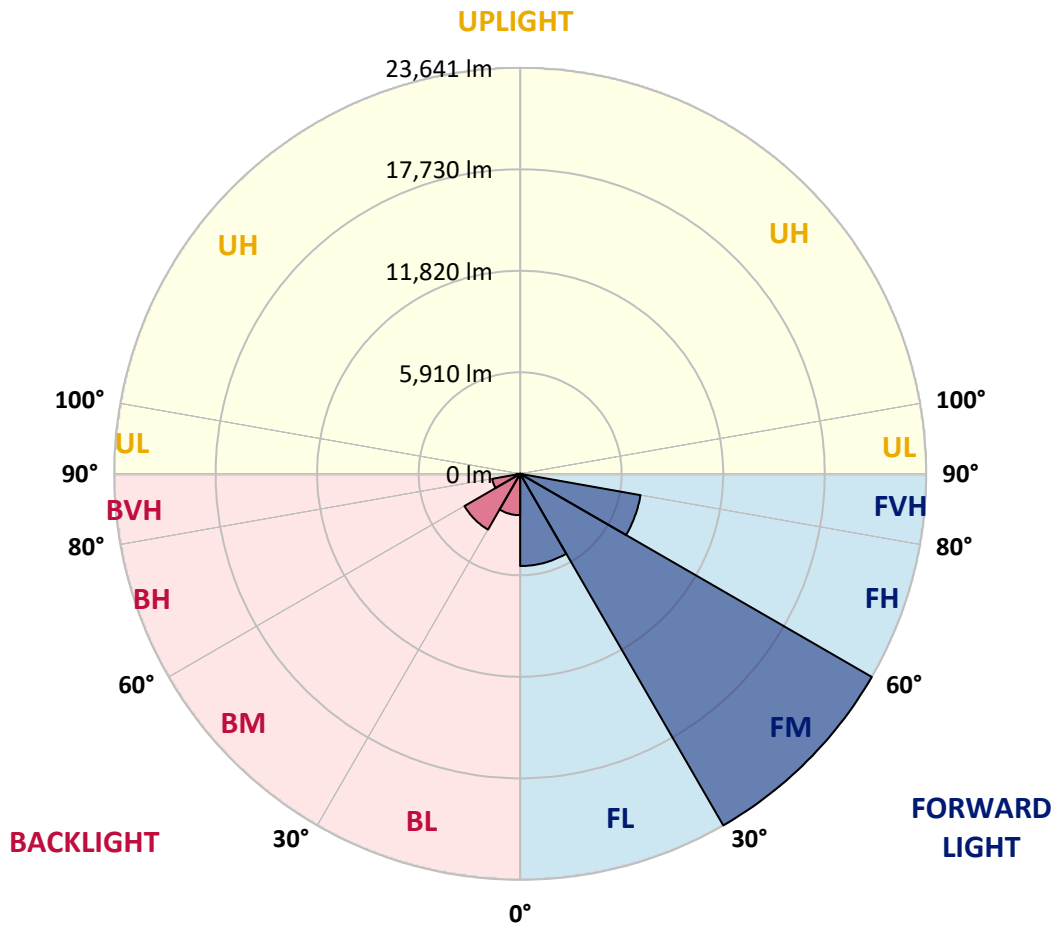
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5368.6	12.1			
FM (30°-60°)	23640.6	53.4			
FH (60°-80°)	7121.3	16.1			G3/7500
FVH (80°-90°)	149.6	0.3			G2/225
BL (0°-30°)	2409.0	5.4	B3/2500		
BM (30°-60°)	3746.1	8.5	B3/5000		
BH (60°-80°)	1655.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	204.5	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°	11098.9	11098.9	11098.9	11098.9	11098.9	11098.9	11098.9	11098.9	11098.9	11098.9
2.5°	12733.8	12724.7	12775.1	12603.3	12486.5	12328.5	12120.2	11854.5	11568.3	11266.0
5°	13881.1	13800.9	13853.6	13725.3	13597.1	13359.0	13049.8	12617.1	12088.1	11485.9
7.5°	13700.2	13645.2	13780.3	13894.8	13991.0	13961.2	13734.5	13281.1	12598.7	11724.0
10°	12241.5	12179.7	12369.8	12765.9	13347.5	13853.6	14128.4	13846.7	13120.8	11985.1
12.5°	10954.6	10924.9	11050.8	11371.4	12017.1	12988.0	14078.0	14341.3	13663.5	12294.2
15°	10405.1	10368.4	10448.6	10611.2	11023.3	11927.8	13620.0	14680.2	14197.1	12651.4
17.5°	10283.7	10242.5	10276.8	10361.6	10627.2	11316.4	12928.5	14847.4	14753.5	13049.8
20°	10508.1	10473.8	10478.3	10473.8	10659.2	11206.5	12447.6	14783.3	15238.9	13416.2
22.5°	11050.8	10993.6	10995.8	10874.5	10975.2	11398.9	12321.7	14611.5	15671.7	13736.8
25°	11934.7	11831.6	11852.2	11543.1	11515.6	11829.4	12518.6	14478.7	16102.2	13993.3
27.5°	13143.7	13026.9	12965.1	12504.9	12285.0	12440.7	12919.3	14524.5	16509.8	14215.4
30°	14655.0	14513.1	14387.1	13734.5	13336.1	13278.8	13542.2	14826.8	16990.7	14448.9
32.5°	16507.5	16342.6	16113.7	15248.1	14687.1	14387.1	14348.2	15364.9	17554.0	14746.6
35°	18712.6	18497.4	18172.2	17052.5	16342.6	15729.0	15410.7	16141.1	18325.6	15195.4
37.5°	20984.2	20741.4	20443.8	19111.1	18238.6	17334.1	16706.7	17194.5	19353.8	15804.5
40°	23079.4	22806.9	22529.8	21343.7	20407.1	19317.2	18293.6	18527.2	20610.9	16532.7
42.5°	24315.9	24114.4	24009.0	23367.9	22644.3	21538.3	20267.4	20107.1	22023.8	17370.8
45°	24260.9	24178.5	24503.7	24769.3	24597.5	23983.9	22580.2	21854.3	23441.2	18096.7
47.5°	22964.9	23019.8	23745.7	25238.7	25895.9	26216.5	25213.5	23569.4	24673.1	18639.4
50°	19438.5	19484.3	21165.1	24384.6	26230.2	28036.9	27826.2	25243.3	25628.0	18971.4
52.5°	16647.2	16677.0	17398.3	21852.0	25126.5	28952.8	30180.2	26821.0	26326.4	19063.0
55°	12539.2	12642.2	13450.6	17144.1	22255.0	28226.9	31613.6	28446.8	26768.3	19072.1
57.5°	7325.2	7437.4	8435.8	11637.0	17297.5	25696.7	31831.2	29889.4	27068.3	18998.9
60°	3588.2	3636.3	4071.3	6116.2	10666.1	20821.6	30081.7	30587.8	27235.4	18959.9
62.5°	2418.1	2411.2	2429.5	3018.0	5255.2	13377.3	26436.3	29365.0	27146.1	18811.1
65°	2079.2	2054.0	1985.3	2118.1	2722.6	6118.5	20425.4	25715.0	26466.1	18437.8
67.5°	1797.5	1799.8	1802.1	1760.9	1944.1	2823.4	12482.0	20256.0	24025.1	16670.1
70°	1488.4	1509.0	1518.2	1518.2	1584.6	1852.5	5328.5	13883.3	18950.8	13070.4
72.5°	1355.6	1312.1	1316.7	1293.8	1293.8	1410.5	2145.6	7870.2	11939.3	7352.7
75°	1106.0	1133.5	1138.1	1122.0	1069.4	1076.2	1273.2	3302.0	5108.6	3050.1
77.5°	954.9	954.9	964.0	952.6	911.4	806.0	849.5	1280.0	1738.0	1250.3
80°	767.1	764.8	803.7	826.6	762.5	595.4	542.7	707.6	771.7	549.6
82.5°	373.2	396.1	551.9	629.7	579.3	430.5	332.0	439.7	412.2	242.7
85°	217.5	206.1	247.3	350.3	332.0	238.1	160.3	229.0	215.2	123.7
87.5°	68.7	64.1	50.4	119.1	96.2	66.4	43.5	66.4	59.5	27.5
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°
11098.9	0°	11098.9	11098.9	11098.9	11098.9	11098.9	11098.9	11098.9	11098.9	11098.9	11098.9
11135.5	2.5°	10972.9	10702.7	10434.8	10189.8	10041.0	9944.8	9848.6	9741.0	9699.8	9638.0
11165.3	5°	10863.0	10340.9	9876.1	9475.4	9111.3	8825.1	8536.6	8303.0	8197.7	8268.6
11259.2	7.5°	10798.9	10043.3	9326.5	8591.5	7883.9	7318.4	6826.0	6480.3	6324.6	6363.5
11350.8	10°	10741.7	9706.7	8614.4	7453.5	6436.8	5736.1	5232.3	4969.0	4870.5	4891.1
11474.4	12.5°	10689.0	9328.8	7755.7	6228.4	5147.6	4685.0	4540.8	4543.1	4561.4	4575.1
11671.4	15°	10679.8	8873.2	6796.3	5156.7	4451.5	4421.7	4577.4	4675.9	4728.5	4744.6
11836.2	17.5°	10666.1	8328.2	5818.5	4426.3	4282.0	4483.5	4627.8	4691.9	4733.1	4735.4
11996.5	20°	10611.2	7636.6	4916.3	4078.2	4245.4	4419.4	4508.7	4559.1	4593.4	4604.9
12117.9	22.5°	10441.7	6867.3	4213.3	3922.5	4098.8	4238.5	4343.8	4401.1	4421.7	4435.4
12140.8	25°	10137.2	6006.3	3727.9	3773.7	3895.0	4071.3	4156.1	4167.5	4160.7	4181.3
12083.5	27.5°	9738.7	5083.5	3425.6	3572.2	3727.9	3879.0	3924.8	3917.9	3904.2	3927.1
11985.1	30°	9257.9	4254.5	3233.3	3345.5	3558.4	3695.8	3737.0	3721.0	3693.5	3718.7
11934.7	32.5°	8749.5	3576.7	3075.3	3187.5	3418.7	3553.8	3595.1	3579.0	3558.4	3579.0
11991.9	35°	8275.5	3102.7	2928.7	3082.1	3308.8	3441.6	3494.3	3496.6	3496.6	3521.8
12143.1	37.5°	7840.4	2825.7	2807.4	3015.7	3233.3	3352.3	3427.9	3432.5	3334.0	3340.9
12399.5	40°	7437.4	2708.9	2752.4	2972.2	3160.0	3274.5	3279.1	3022.6	2841.7	2837.1
12692.6	42.5°	7107.7	2686.0	2768.4	2967.6	3107.3	3111.9	2789.0	2589.8	2539.4	2541.7
12962.8	45°	6798.6	2679.1	2805.1	2967.6	3029.5	2688.3	2470.7	2418.1	2422.7	2441.0
13084.2	47.5°	6452.8	2651.6	2811.9	2926.4	2805.1	2390.6	2326.5	2303.6	2294.4	2299.0
13056.7	50°	6075.0	2553.2	2724.9	2844.0	2420.4	2262.4	2182.2	2175.4	2186.8	2193.7
12903.3	52.5°	5676.5	2392.9	2576.1	2695.2	2244.1	2150.2	2060.9	2076.9	2127.3	2143.3
12743.0	55°	5415.5	2205.1	2379.2	2397.5	2120.4	2044.8	1969.3	2005.9	2099.8	2129.6
12646.8	57.5°	5346.8	2005.9	2154.7	2134.1	1962.4	1953.2	1907.4	1939.5	2058.6	2102.1
12642.2	60°	5326.2	1827.3	1934.9	1918.9	1809.0	1852.5	1841.0	1857.1	1898.3	1912.0
12596.4	62.5°	5165.9	1685.3	1738.0	1715.1	1671.6	1747.2	1774.6	1740.3	1772.3	1788.4
12282.7	65°	4758.3	1570.8	1545.6	1529.6	1547.9	1616.6	1671.6	1602.9	1632.7	1678.5
11073.7	67.5°	4085.1	1415.1	1346.4	1364.7	1422.0	1458.6	1529.6	1451.8	1477.0	1554.8
8919.0	70°	3304.2	1218.2	1156.4	1209.0	1264.0	1339.6	1351.0	1298.3	1357.9	1444.9
5443.0	72.5°	2337.9	1019.0	975.5	1083.1	1101.4	1199.9	1174.7	1149.5	1231.9	1261.7
2690.6	75°	1621.2	822.1	796.9	879.3	945.7	1030.4	1012.1	1041.9	1215.9	1229.6
1344.1	77.5°	1025.9	638.9	622.8	675.5	767.1	861.0	890.8	1229.6	2076.9	2159.3
698.4	80°	595.4	476.3	458.0	499.2	579.3	666.3	858.7	1509.0	1369.3	1353.3
313.7	82.5°	332.0	327.4	304.5	316.0	387.0	480.9	1213.6	1062.5	863.3	890.8
125.9	85°	155.7	192.3	164.9	158.0	217.5	563.3	810.6	606.8	403.0	393.9
27.5	87.5°	41.2	36.6	36.6	41.2	91.6	485.4	322.9	258.8	153.4	148.8
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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