

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: P954451

Luminaire Tested: **GALN-SB7C-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954451
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-SB7C-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 37681 lumens
Efficiency: N/A
Efficacy: 107.5 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

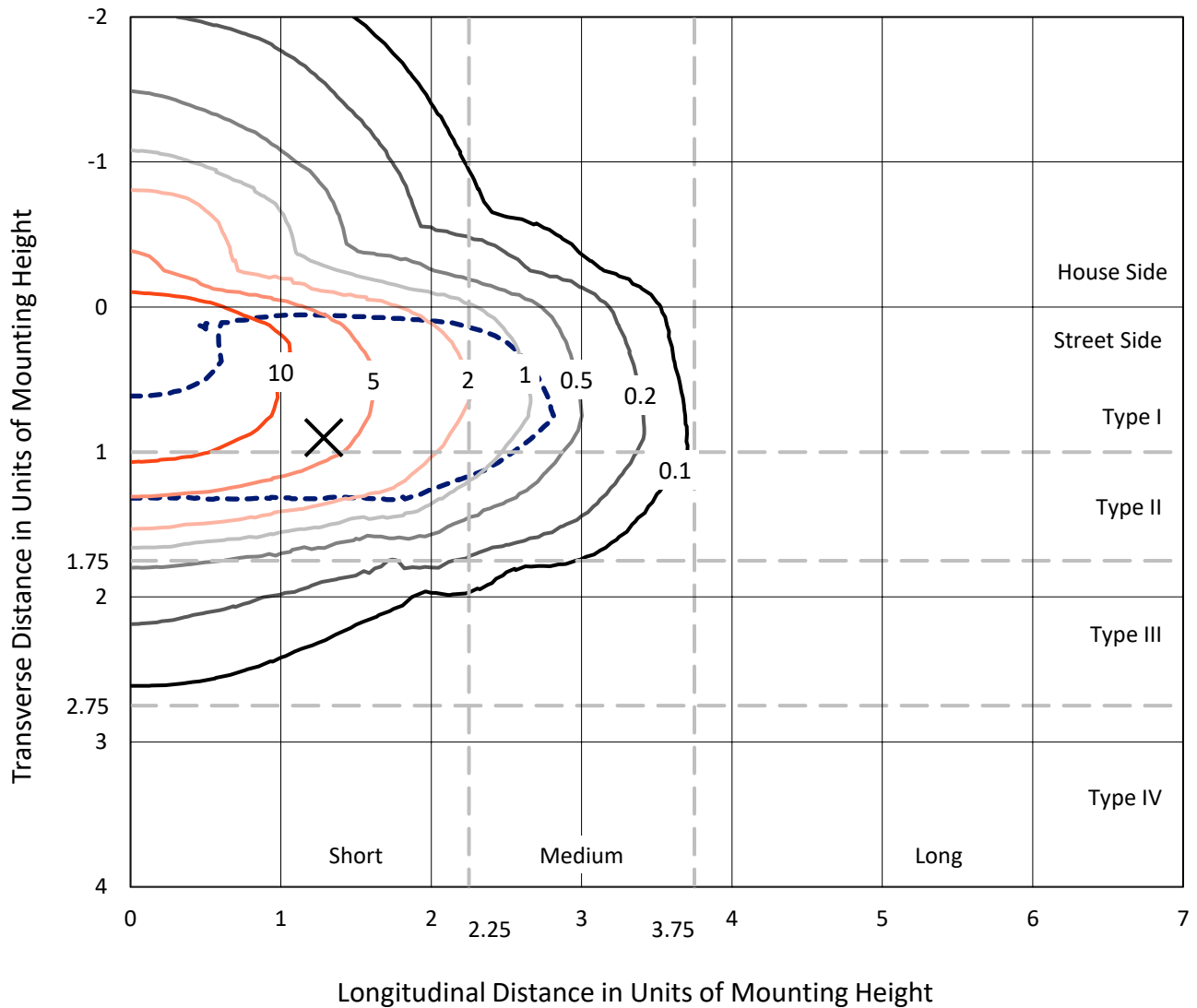
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

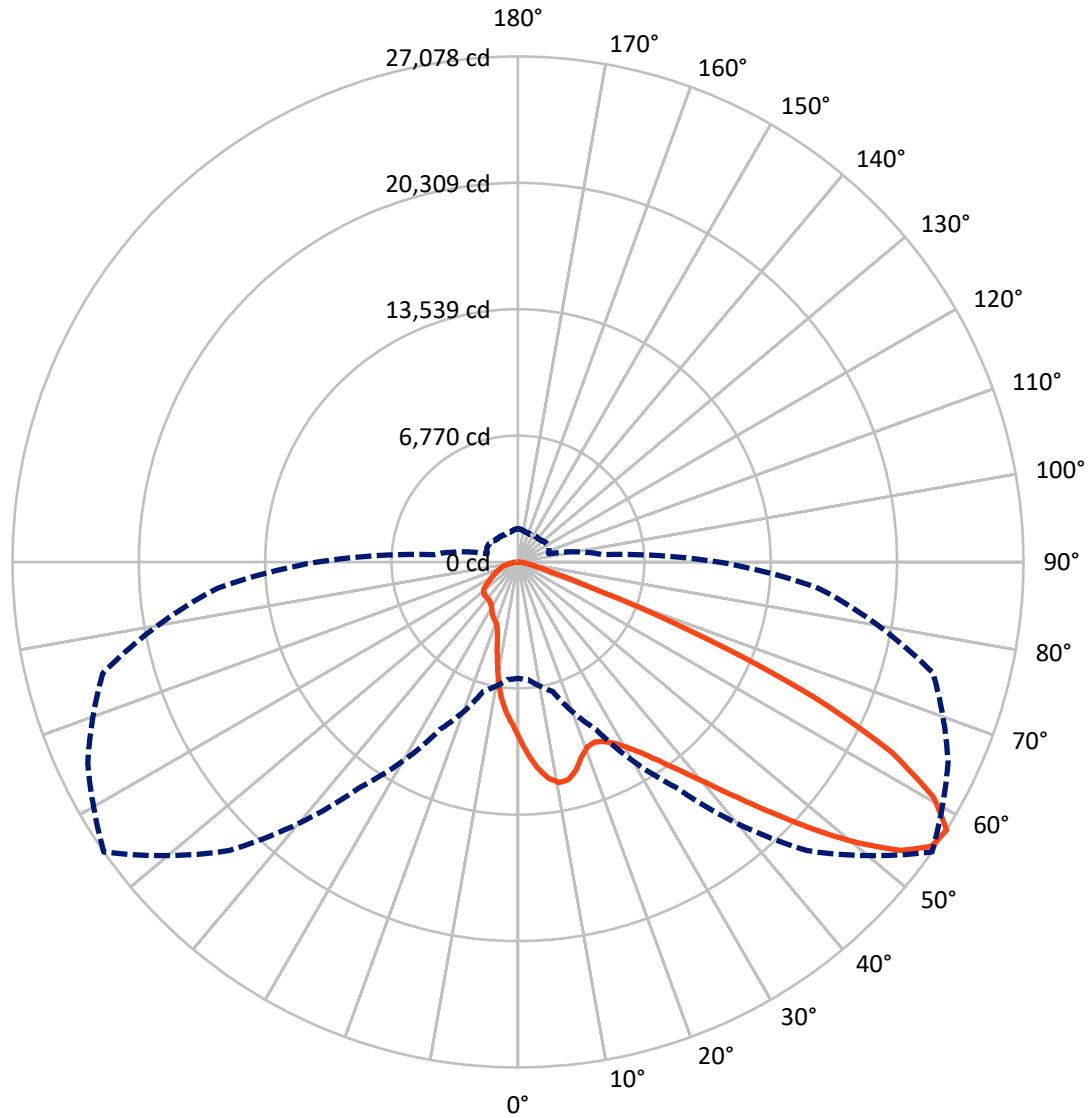
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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	6818.2	0.0	6818.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	30862.8	0.0	30862.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	37681.0	0.0	37681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	876.1	2.3
10°-20°	2211.4	5.9
20°-30°	3528.7	9.4
30°-40°	5586.9	14.8
40°-50°	8551.3	22.7
50°-60°	9159.2	24.3
60°-70°	5762.1	15.3
70°-80°	1704.0	4.5
80°-90°	301.3	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°	37681.0	100.0
0°-180°	37681.0	100.0

Coefficient of Utilization



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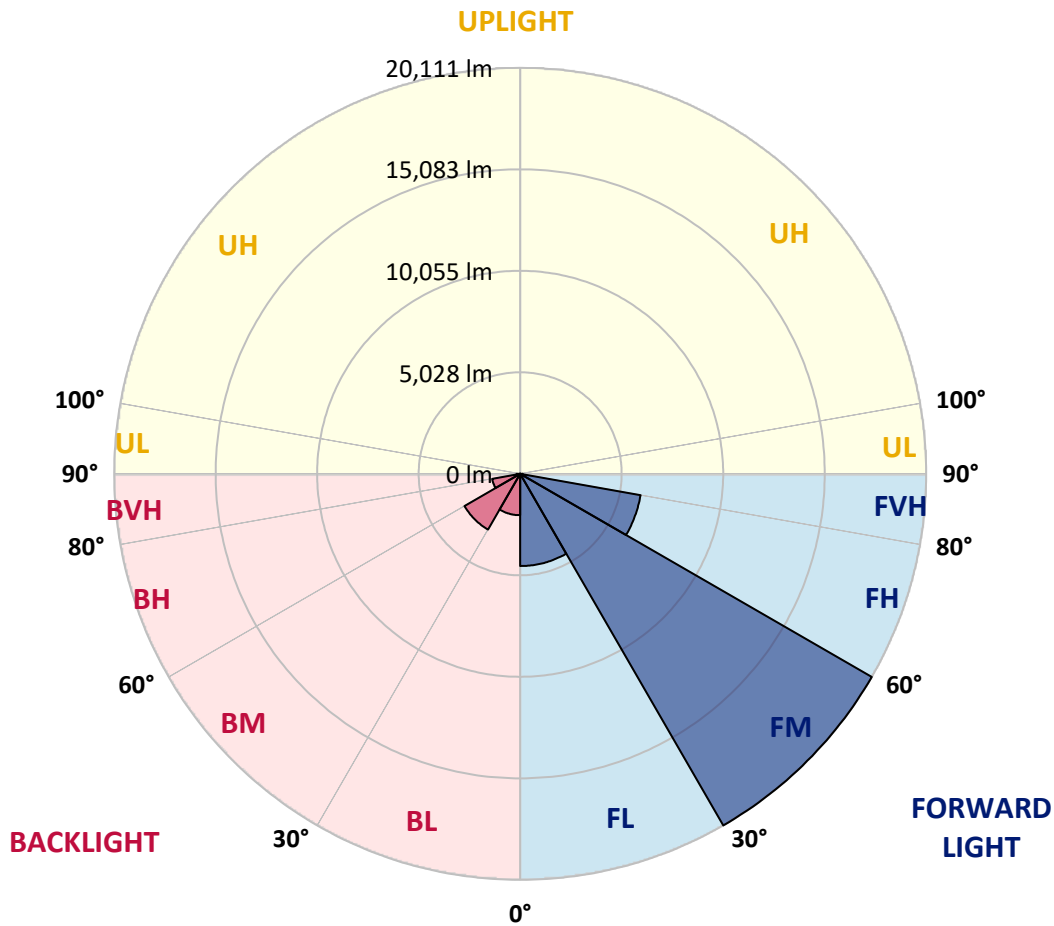
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4566.9	12.1			
FM (30°-60°)	20110.6	53.4			
FH (60°-80°)	6058.0	16.1			G3/7500
FVH (80°-90°)	127.3	0.3			G2/225
BL (0°-30°)	2049.3	5.4	B3/2500		
BM (30°-60°)	3186.8	8.5	B3/5000		
BH (60°-80°)	1408.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	174.0	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°	9441.6	9441.6	9441.6	9441.6	9441.6	9441.6	9441.6	9441.6	9441.6	9441.6
2.5°	10832.5	10824.7	10867.5	10721.4	10622.1	10487.7	10310.4	10084.5	9841.0	9583.8
5°	11808.4	11740.2	11785.0	11675.9	11566.8	11364.2	11101.3	10733.1	10283.1	9770.8
7.5°	11654.5	11607.7	11722.7	11820.1	11901.9	11876.6	11683.7	11298.0	10717.5	9973.4
10°	10413.7	10361.1	10522.7	10859.7	11354.5	11785.0	12018.8	11779.2	11161.7	10195.5
12.5°	9318.9	9293.6	9400.7	9673.4	10222.8	11048.7	11975.9	12199.9	11623.3	10458.5
15°	8851.4	8820.2	8888.4	9026.7	9377.4	10146.8	11586.3	12488.2	12077.2	10762.3
17.5°	8748.2	8713.1	8742.3	8814.4	9040.4	9626.7	10998.0	12630.4	12550.5	11101.3
20°	8939.1	8909.8	8913.7	8909.8	9067.6	9533.2	10589.0	12575.9	12963.5	11412.9
22.5°	9400.7	9352.0	9354.0	9250.7	9336.4	9696.8	10481.8	12429.8	13331.7	11685.7
25°	10152.6	10065.0	10082.5	9819.5	9796.2	10063.0	10649.4	12316.8	13697.9	11903.8
27.5°	11181.1	11081.8	11029.2	10637.7	10450.7	10583.1	10990.2	12355.7	14044.6	12092.8
30°	12466.8	12346.0	12238.9	11683.7	11344.8	11296.1	11520.1	12612.9	14453.7	12291.5
32.5°	14042.7	13902.4	13707.6	12971.3	12494.0	12238.9	12205.8	13070.6	14932.9	12544.7
35°	15918.5	15735.4	15458.8	14506.3	13902.4	13380.4	13109.6	13731.0	15589.3	12926.5
37.5°	17850.9	17644.4	17391.2	16257.5	15515.3	14745.9	14212.1	14627.0	16463.9	13444.6
40°	19633.2	19401.4	19165.7	18156.7	17360.0	16432.8	15562.0	15760.7	17533.4	14064.1
42.5°	20685.1	20513.7	20424.1	19878.7	19263.1	18322.3	17241.2	17104.8	18735.2	14777.0
45°	20638.4	20568.2	20844.8	21070.8	20924.7	20402.7	19208.6	18591.1	19941.0	15394.5
47.5°	19535.8	19582.6	20200.1	21470.1	22029.2	22301.9	21448.7	20050.1	20989.0	15856.2
50°	16536.0	16575.0	18004.8	20743.5	22313.6	23850.5	23671.3	21474.0	21801.3	16138.6
52.5°	14161.5	14186.8	14800.4	18589.1	21374.7	24629.7	25673.8	22816.1	22395.4	16216.5
55°	10666.9	10754.5	11442.2	14584.2	18932.0	24012.2	26893.2	24199.2	22771.3	16224.3
57.5°	6231.4	6326.9	7176.2	9899.4	14714.7	21859.7	27078.2	25426.4	23026.5	16162.0
60°	3052.4	3093.3	3463.4	5202.9	9073.5	17712.6	25590.0	26020.5	23168.7	16128.9
62.5°	2057.0	2051.2	2066.8	2567.4	4470.5	11379.8	22488.9	24980.3	23092.8	16002.3
65°	1768.7	1747.3	1688.9	1801.8	2316.1	5204.9	17375.6	21875.3	22514.2	15684.8
67.5°	1529.1	1531.1	1533.0	1498.0	1653.8	2401.8	10618.2	17231.4	20437.7	14181.0
70°	1266.2	1283.7	1291.5	1291.5	1348.0	1575.9	4532.8	11810.3	16121.1	11118.8
72.5°	1153.2	1116.2	1120.1	1100.6	1100.6	1199.9	1825.2	6695.0	10156.5	6254.8
75°	940.9	964.2	968.1	954.5	909.7	915.5	1083.1	2808.9	4345.8	2594.6
77.5°	812.3	812.3	820.1	810.3	775.3	685.7	722.7	1088.9	1478.5	1063.6
80°	652.6	650.6	683.7	703.2	648.7	506.5	461.7	601.9	656.5	467.5
82.5°	317.5	337.0	469.5	535.7	492.8	366.2	282.5	374.0	350.6	206.5
85°	185.1	175.3	210.4	298.0	282.5	202.6	136.4	194.8	183.1	105.2
87.5°	58.4	54.5	42.9	101.3	81.8	56.5	37.0	56.5	50.6	23.4
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°
9441.6	0°	9441.6	9441.6	9441.6	9441.6	9441.6	9441.6	9441.6	9441.6	9441.6	9441.6
9472.8	2.5°	9334.5	9104.6	8876.7	8668.3	8541.7	8459.9	8378.1	8286.5	8251.4	8198.9
9498.1	5°	9241.0	8796.9	8401.4	8060.6	7750.8	7507.3	7261.9	7063.2	6973.6	7034.0
9578.0	7.5°	9186.5	8543.6	7933.9	7308.6	6706.7	6225.6	5806.8	5512.7	5380.2	5413.3
9655.9	10°	9137.8	8257.3	7328.1	6340.5	5475.6	4879.6	4451.0	4227.0	4143.3	4160.8
9761.1	12.5°	9093.0	7935.9	6597.7	5298.4	4379.0	3985.5	3862.8	3864.7	3880.3	3892.0
9928.6	15°	9085.2	7548.2	5781.5	4386.7	3786.8	3761.5	3893.9	3977.7	4022.5	4036.1
10068.9	17.5°	9073.5	7084.6	4949.7	3765.4	3642.6	3814.1	3936.8	3991.3	4026.4	4028.3
10205.2	20°	9026.7	6496.4	4182.2	3469.3	3611.5	3759.5	3835.5	3878.3	3907.6	3917.3
10308.5	22.5°	8882.6	5841.9	3584.2	3336.8	3486.8	3605.6	3695.2	3743.9	3761.5	3773.1
10327.9	25°	8623.5	5109.4	3171.2	3210.2	3313.4	3463.4	3535.5	3545.2	3539.4	3556.9
10279.2	27.5°	8284.6	4324.4	2914.1	3038.8	3171.2	3299.8	3338.8	3332.9	3321.2	3340.7
10195.5	30°	7875.5	3619.3	2750.5	2845.9	3027.1	3144.0	3179.0	3165.4	3142.0	3163.4
10152.6	32.5°	7443.1	3042.7	2616.1	2711.5	2908.3	3023.2	3058.3	3044.6	3027.1	3044.6
10201.3	35°	7039.8	2639.5	2491.4	2621.9	2814.8	2927.7	2972.5	2974.5	2974.5	2995.9
10329.9	37.5°	6669.7	2403.8	2388.2	2565.4	2750.5	2851.8	2916.1	2920.0	2836.2	2842.0
10548.1	40°	6326.9	2304.4	2341.4	2528.4	2688.1	2785.5	2789.4	2571.3	2417.4	2413.5
10797.4	42.5°	6046.4	2284.9	2355.1	2524.5	2643.3	2647.2	2372.6	2203.1	2160.3	2162.2
11027.3	45°	5783.4	2279.1	2386.2	2524.5	2577.1	2286.9	2101.8	2057.0	2060.9	2076.5
11130.5	47.5°	5489.3	2255.7	2392.1	2489.5	2386.2	2033.6	1979.1	1959.6	1951.8	1955.7
11107.1	50°	5167.9	2171.9	2318.0	2419.3	2059.0	1924.6	1856.4	1850.5	1860.3	1866.1
10976.6	52.5°	4828.9	2035.6	2191.4	2292.7	1909.0	1829.1	1753.1	1766.8	1809.6	1823.3
10840.3	55°	4606.9	1875.9	2023.9	2039.5	1803.8	1739.5	1675.2	1706.4	1786.3	1811.6
10758.4	57.5°	4548.4	1706.4	1833.0	1815.5	1669.4	1661.6	1622.6	1649.9	1751.2	1788.2
10754.5	60°	4530.9	1554.5	1646.0	1632.4	1538.9	1575.9	1566.1	1579.8	1614.8	1626.5
10715.6	62.5°	4394.5	1433.7	1478.5	1459.0	1422.0	1486.3	1509.6	1480.4	1507.7	1521.3
10448.7	65°	4047.8	1336.3	1314.9	1301.2	1316.8	1375.2	1422.0	1363.6	1388.9	1427.8
9420.2	67.5°	3475.1	1203.8	1145.4	1161.0	1209.7	1240.8	1301.2	1235.0	1256.4	1322.6
7587.2	70°	2810.9	1036.3	983.7	1028.5	1075.3	1139.5	1149.3	1104.5	1155.1	1229.1
4630.2	72.5°	1988.8	866.8	829.8	921.4	937.0	1020.7	999.3	977.9	1048.0	1073.3
2288.8	75°	1379.1	699.3	677.9	748.0	804.5	876.6	861.0	886.3	1034.4	1046.0
1143.4	77.5°	872.7	543.5	529.8	574.6	652.6	732.4	757.7	1046.0	1766.8	1836.9
594.1	80°	506.5	405.2	389.6	424.6	492.8	566.8	730.5	1283.7	1164.9	1151.2
266.9	82.5°	282.5	278.6	259.1	268.8	329.2	409.1	1032.4	903.8	734.4	757.7
107.1	85°	132.5	163.6	140.3	134.4	185.1	479.2	689.6	516.2	342.8	335.0
23.4	87.5°	35.1	31.2	31.2	35.1	77.9	413.0	274.7	220.1	130.5	126.6
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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