

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: P951427

Luminaire Tested: **GALN-SB5C-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951427
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-SB5C-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34572 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

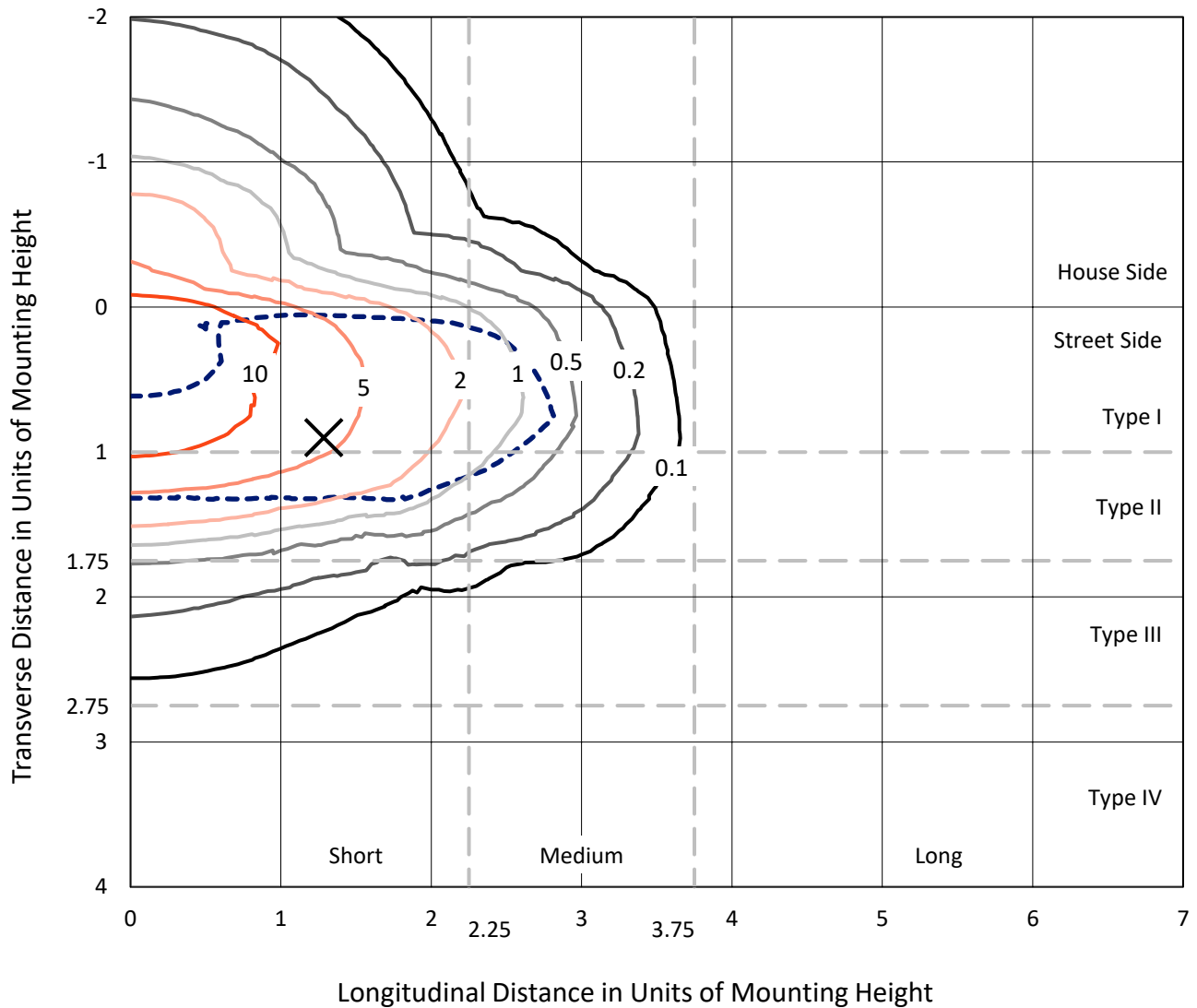
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

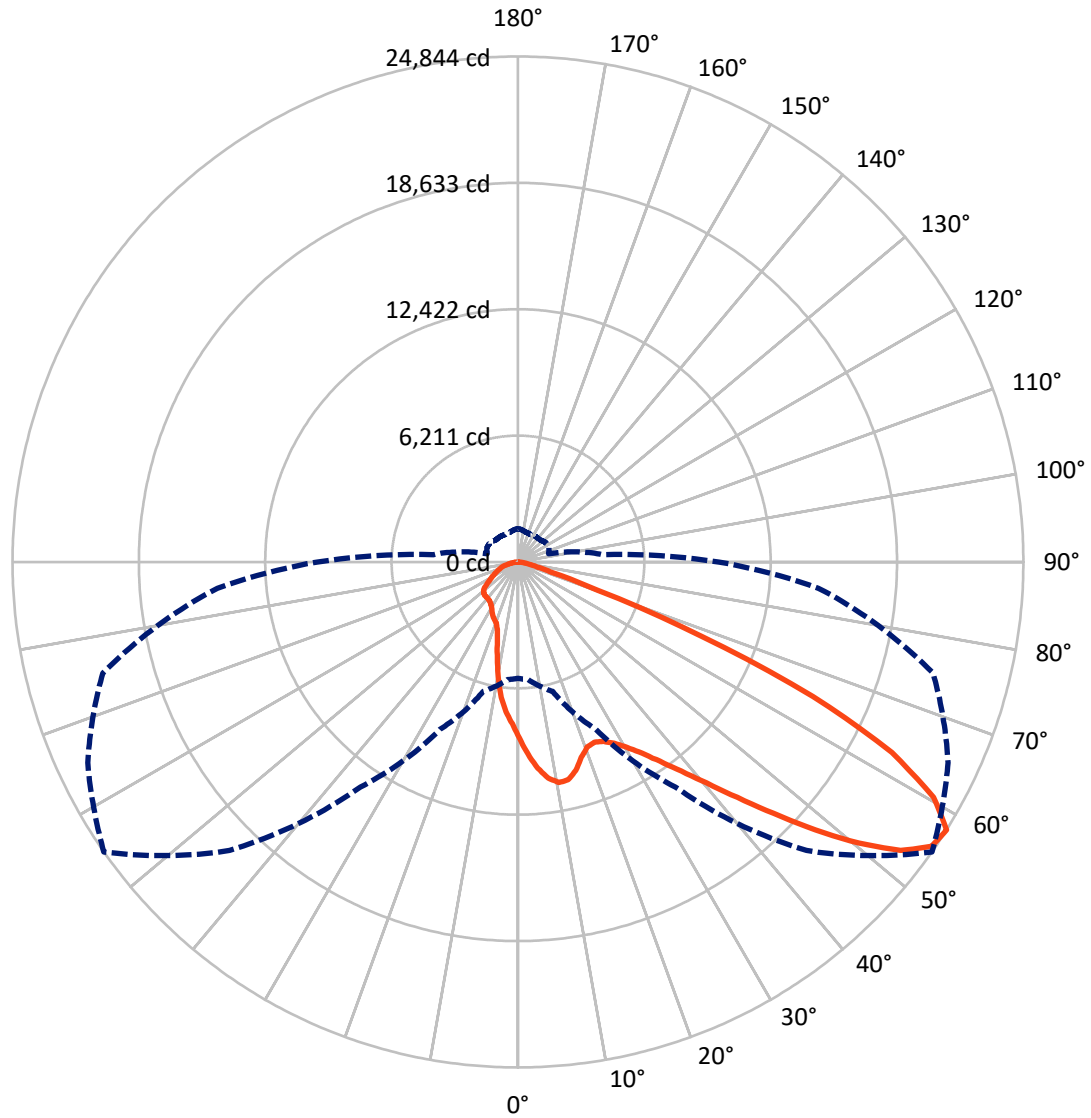
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 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
House Side	Lumens	6255.6	0.0	6255.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	28316.4	0.0	28316.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	34572.0	0.0	34572.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	803.8	2.3
10°-20°	2028.9	5.9
20°-30°	3237.6	9.4
30°-40°	5125.9	14.8
40°-50°	7845.7	22.7
50°-60°	8403.5	24.3
60°-70°	5286.7	15.3
70°-80°	1563.4	4.5
80°-90°	276.4	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°	34572.0	100.0
0°-180°	34572.0	100.0



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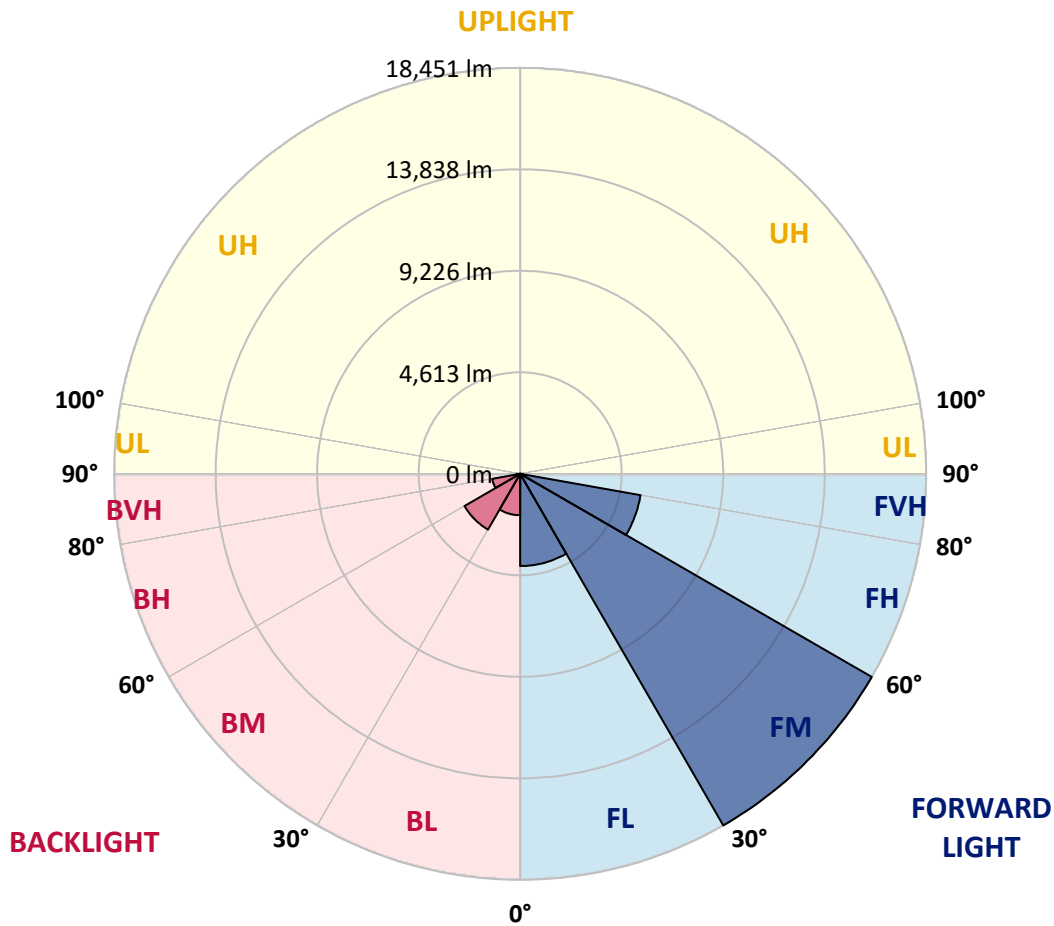
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4190.1	12.1			
FM (30°-60°)	18451.3	53.4			
FH (60°-80°)	5558.1	16.1			G3/7500
FVH (80°-90°)	116.8	0.3			G2/225
BL (0°-30°)	1880.2	5.4	B3/2500		
BM (30°-60°)	2923.8	8.5	B3/5000		
BH (60°-80°)	1291.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	159.6	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°	8662.6	8662.6	8662.6	8662.6	8662.6	8662.6	8662.6	8662.6	8662.6	8662.6
2.5°	9938.7	9931.5	9970.9	9836.8	9745.7	9622.4	9459.7	9252.4	9029.0	8793.1
5°	10834.1	10771.5	10812.6	10712.6	10612.5	10426.6	10185.3	9847.5	9434.7	8964.7
7.5°	10692.9	10650.0	10755.4	10844.8	10919.9	10896.6	10719.7	10365.8	9833.2	9150.5
10°	9554.4	9506.2	9654.5	9963.7	10417.7	10812.6	11027.1	10807.3	10240.7	9354.3
12.5°	8550.0	8526.8	8625.1	8875.3	9379.3	10137.1	10987.8	11193.3	10664.3	9595.5
15°	8121.1	8092.5	8155.1	8281.9	8603.6	9309.6	10630.3	11457.8	11080.7	9874.4
17.5°	8026.4	7994.2	8021.0	8087.1	8294.5	8832.4	10090.6	11588.3	11515.0	10185.3
20°	8201.5	8174.7	8178.3	8174.7	8319.5	8746.6	9715.3	11538.2	11893.9	10471.3
22.5°	8625.1	8580.4	8582.2	8487.5	8566.1	8896.7	9617.0	11404.2	12231.7	10721.5
25°	9315.0	9234.5	9250.6	9009.3	8987.9	9232.7	9770.7	11300.5	12567.7	10921.7
27.5°	10258.6	10167.5	10119.2	9760.0	9588.4	9709.9	10083.5	11336.3	12885.8	11095.0
30°	11438.2	11327.4	11229.1	10719.7	10408.7	10364.0	10569.6	11572.2	13261.1	11277.3
32.5°	12884.0	12755.3	12576.6	11901.1	11463.2	11229.1	11198.7	11992.2	13700.8	11509.7
35°	14605.1	14437.1	14183.3	13309.4	12755.3	12276.4	12027.9	12598.1	14303.1	11859.9
37.5°	16378.0	16188.6	15956.2	14916.1	14235.2	13529.2	13039.5	13420.2	15105.5	12335.3
40°	18013.3	17800.6	17584.4	16658.6	15927.6	15076.9	14278.0	14460.3	16086.7	12903.7
42.5°	18978.4	18821.1	18738.9	18238.5	17673.7	16810.5	15818.6	15693.5	17189.4	13557.8
45°	18935.5	18871.2	19125.0	19332.3	19198.2	18719.3	17623.7	17057.2	18295.7	14124.3
47.5°	17924.0	17966.9	18533.4	19698.7	20211.6	20461.8	19679.0	18395.8	19257.2	14547.9
50°	15171.7	15207.4	16519.2	19032.0	20472.5	21882.6	21718.2	19702.2	20002.5	14807.1
52.5°	12993.0	13016.3	13579.2	17055.4	19611.1	22597.5	23555.5	20933.6	20547.6	14878.5
55°	9786.8	9867.2	10498.1	13380.9	17369.9	22031.0	24674.3	22202.5	20892.5	14885.7
57.5°	5717.3	5804.9	6584.1	9082.6	13500.6	20056.1	24844.0	23328.5	21126.6	14828.5
60°	2800.6	2838.1	3177.7	4773.6	8324.8	16251.1	23478.6	23873.6	21257.1	14798.1
62.5°	1887.3	1881.9	1896.2	2355.5	4101.7	10440.9	20633.4	22919.2	21187.4	14682.0
65°	1622.8	1603.1	1549.5	1653.2	2125.0	4775.4	15941.9	20070.4	20656.6	14390.6
67.5°	1403.0	1404.7	1406.5	1374.4	1517.3	2203.6	9742.1	15809.7	18751.4	13010.9
70°	1161.7	1177.8	1184.9	1184.9	1236.8	1445.9	4158.8	10835.9	14791.0	10201.4
72.5°	1058.0	1024.1	1027.6	1009.8	1009.8	1100.9	1674.6	6142.7	9318.5	5738.7
75°	863.2	884.7	888.2	875.7	834.6	840.0	993.7	2577.2	3987.3	2380.6
77.5°	745.3	745.3	752.4	743.5	711.3	629.1	663.1	999.1	1356.5	975.8
80°	598.7	596.9	627.3	645.2	595.1	464.7	423.6	552.2	602.3	428.9
82.5°	291.3	309.2	430.7	491.5	452.2	336.0	259.1	343.1	321.7	189.4
85°	169.8	160.8	193.0	273.4	259.1	185.9	125.1	178.7	168.0	96.5
87.5°	53.6	50.0	39.3	92.9	75.1	51.8	34.0	51.8	46.5	21.4
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°
8662.6	0°	8662.6	8662.6	8662.6	8662.6	8662.6	8662.6	8662.6	8662.6	8662.6	8662.6
8691.2	2.5°	8564.3	8353.4	8144.3	7953.1	7836.9	7761.9	7686.8	7602.8	7570.6	7522.4
8714.5	5°	8478.5	8071.1	7708.2	7395.5	7111.3	6887.9	6662.7	6480.4	6398.2	6453.6
8787.7	7.5°	8428.5	7838.7	7279.3	6705.6	6153.4	5711.9	5327.7	5057.8	4936.3	4966.7
8859.2	10°	8383.8	7576.0	6723.5	5817.4	5023.9	4477.0	4083.8	3878.3	3801.4	3817.5
8955.7	12.5°	8342.7	7281.1	6053.3	4861.2	4017.7	3656.6	3544.0	3545.8	3560.1	3570.9
9109.4	15°	8335.6	6925.5	5304.4	4024.8	3474.3	3451.1	3572.6	3649.5	3690.6	3703.1
9238.1	17.5°	8324.8	6500.1	4541.3	3454.7	3342.1	3499.4	3612.0	3662.0	3694.2	3696.0
9363.2	20°	8281.9	5960.4	3837.1	3183.0	3313.5	3449.3	3519.0	3558.3	3585.1	3594.1
9457.9	22.5°	8149.7	5359.9	3288.5	3061.5	3199.1	3308.1	3390.3	3435.0	3451.1	3461.8
9475.8	25°	7912.0	4687.9	2909.6	2945.3	3040.0	3177.7	3243.8	3252.7	3247.4	3263.5
9431.1	27.5°	7601.0	3967.6	2673.7	2788.1	2909.6	3027.5	3063.3	3057.9	3047.2	3065.1
9354.3	30°	7225.7	3320.6	2523.5	2611.1	2777.3	2884.6	2916.7	2904.2	2882.8	2902.4
9315.0	32.5°	6828.9	2791.6	2400.2	2487.8	2668.3	2773.8	2805.9	2793.4	2777.3	2793.4
9359.6	35°	6459.0	2421.7	2285.8	2405.6	2582.5	2686.2	2727.3	2729.1	2729.1	2748.7
9477.6	37.5°	6119.4	2205.4	2191.1	2353.8	2523.5	2616.5	2675.5	2679.0	2602.2	2607.5
9677.8	40°	5804.9	2114.3	2148.2	2319.8	2466.4	2555.7	2559.3	2359.1	2217.9	2214.4
9906.5	42.5°	5547.5	2096.4	2160.7	2316.2	2425.2	2428.8	2176.8	2021.3	1982.0	1983.8
10117.4	45°	5306.2	2091.0	2189.3	2316.2	2364.5	2098.2	1928.4	1887.3	1890.9	1905.2
10212.1	47.5°	5036.4	2069.6	2194.7	2284.1	2189.3	1865.9	1815.8	1797.9	1790.8	1794.4
10190.7	50°	4741.5	1992.7	2126.8	2219.7	1889.1	1765.8	1703.2	1697.9	1706.8	1712.1
10070.9	52.5°	4430.5	1867.6	2010.6	2103.5	1751.5	1678.2	1608.5	1621.0	1660.3	1672.8
9945.8	55°	4226.8	1721.1	1856.9	1871.2	1655.0	1596.0	1537.0	1565.6	1638.9	1662.1
9870.8	57.5°	4173.1	1565.6	1681.8	1665.7	1531.6	1524.5	1488.7	1513.8	1606.7	1640.7
9867.2	60°	4157.1	1426.2	1510.2	1497.7	1411.9	1445.9	1436.9	1449.4	1481.6	1492.3
9831.5	62.5°	4032.0	1315.4	1356.5	1338.6	1304.7	1363.6	1385.1	1358.3	1383.3	1395.8
9586.6	65°	3713.8	1226.0	1206.4	1193.9	1208.2	1261.8	1304.7	1251.0	1274.3	1310.0
8643.0	67.5°	3188.4	1104.5	1050.9	1065.2	1109.9	1138.5	1193.9	1133.1	1152.8	1213.5
6961.2	70°	2578.9	950.8	902.5	943.6	986.5	1045.5	1054.5	1013.3	1059.8	1127.7
4248.2	72.5°	1824.7	795.3	761.4	845.4	859.6	936.5	916.8	897.2	961.5	984.8
2100.0	75°	1265.3	641.6	622.0	686.3	738.1	804.2	789.9	813.2	949.0	959.7
1049.1	77.5°	800.7	498.6	486.1	527.2	598.7	672.0	695.2	959.7	1621.0	1685.3
545.1	80°	464.7	371.7	357.4	389.6	452.2	520.1	670.2	1177.8	1068.8	1056.2
244.8	82.5°	259.1	255.6	237.7	246.6	302.0	375.3	947.2	829.3	673.8	695.2
98.3	85°	121.5	150.1	128.7	123.3	169.8	439.7	632.7	473.6	314.5	307.4
21.4	87.5°	32.2	28.6	28.6	32.2	71.5	378.9	252.0	202.0	119.7	116.2
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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