

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: P951511

Luminaire Tested: **GALN-SB5C-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951511
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-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23419 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

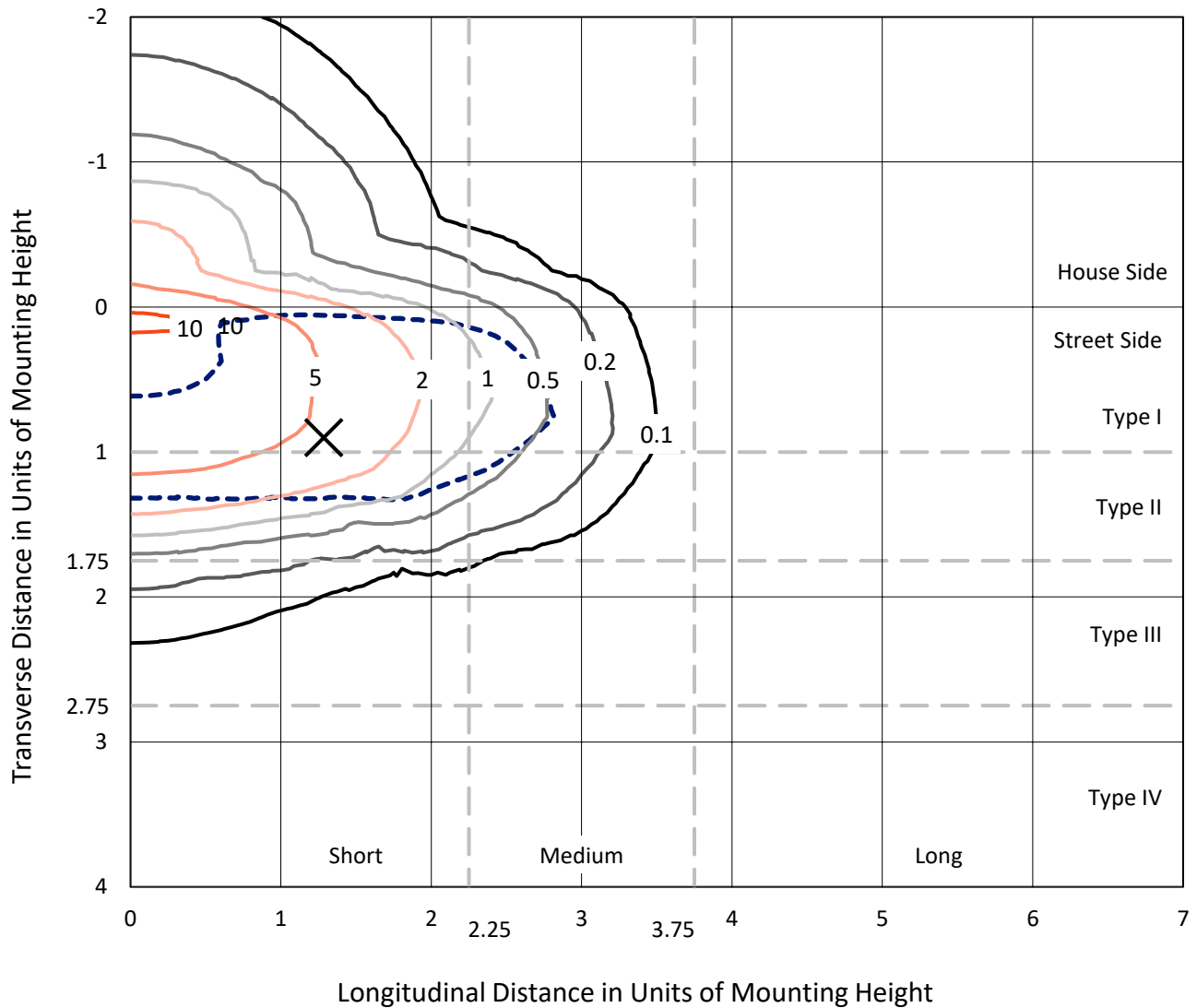
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951511
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Iso-Footcandle Lines of Horizontal Illumination

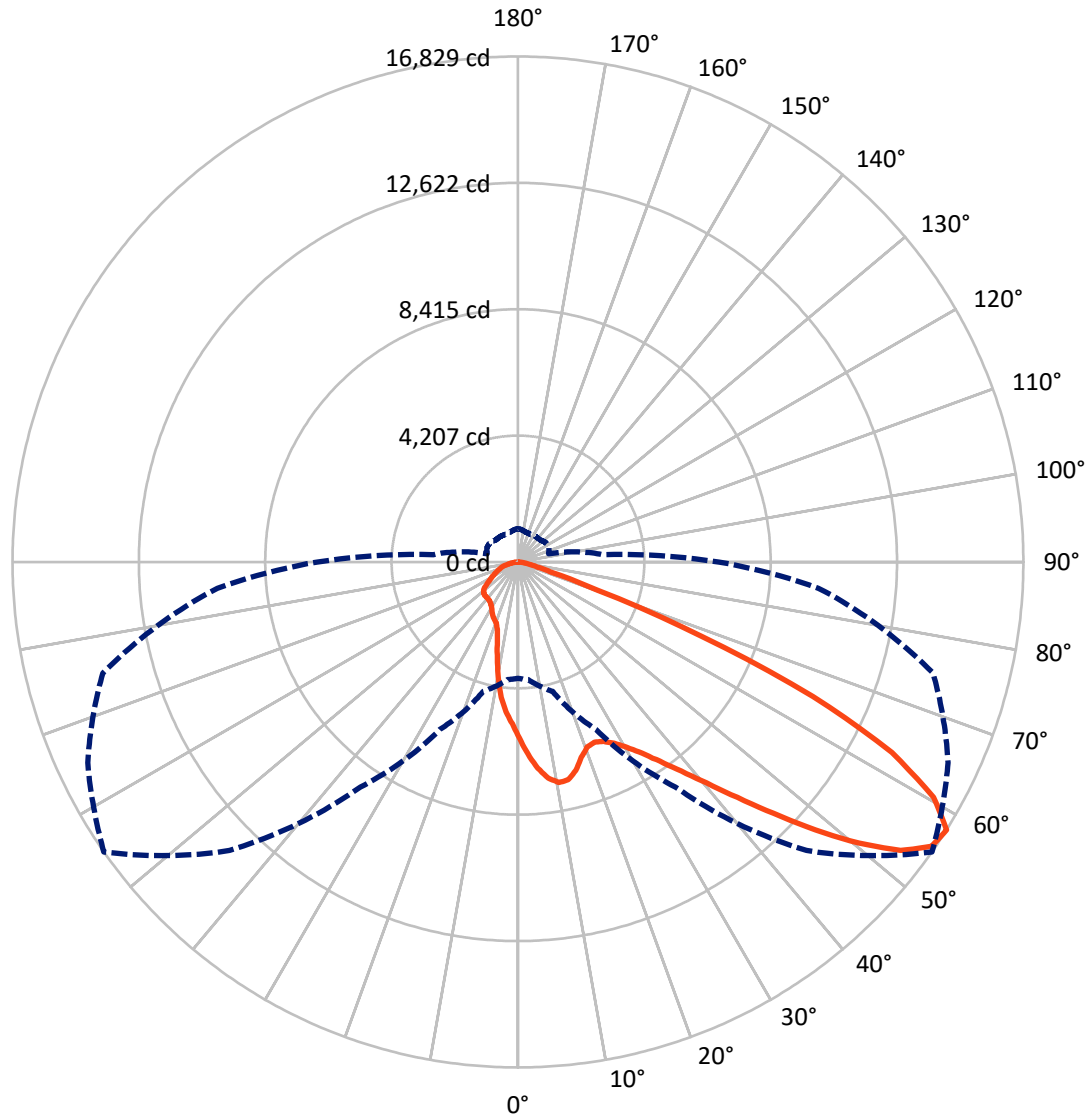
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SB5C-927-U-AFL

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	4237.5	0.0	4237.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19181.4	0.0	19181.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	23419.0	0.0	23419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.5	2.3
10°-20°	1374.4	5.9
20°-30°	2193.1	9.4
30°-40°	3472.3	14.8
40°-50°	5314.7	22.7
50°-60°	5692.5	24.3
60°-70°	3581.2	15.3
70°-80°	1059.0	4.5
80°-90°	187.2	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°	23419.0	100.0
0°-180°	23419.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951511

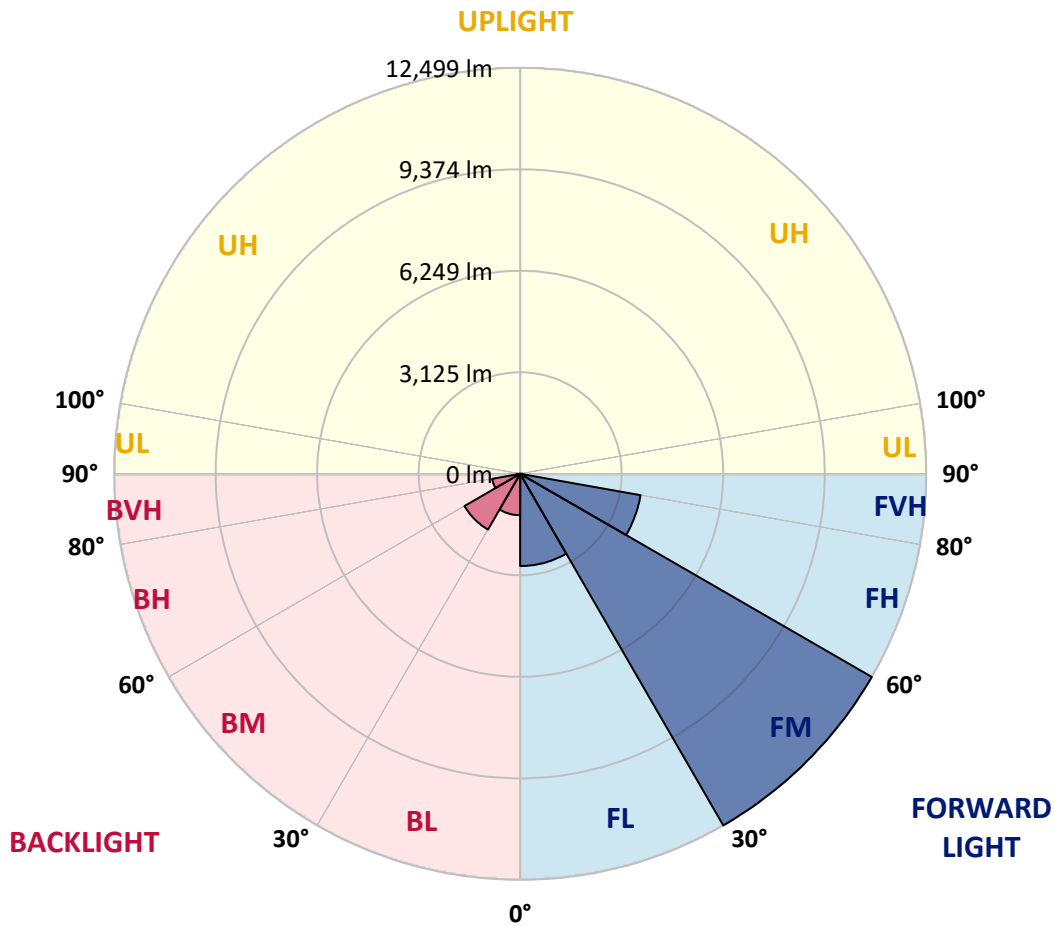
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2838.4	12.1			
FM (30°-60°)	12498.9	53.4			
FH (60°-80°)	3765.1	16.1			G2/5000
FVH (80°-90°)	79.1	0.3			G1/100
BL (0°-30°)	1273.7	5.4	B3/2500		
BM (30°-60°)	1980.6	8.5	B2/2500		
BH (60°-80°)	875.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	108.1	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5868.0	5868.0	5868.0	5868.0	5868.0	5868.0	5868.0	5868.0	5868.0	5868.0
2.5°	6732.4	6727.6	6754.2	6663.4	6601.7	6518.2	6408.0	6267.6	6116.2	5956.4
5°	7339.0	7296.6	7324.5	7256.7	7188.9	7063.0	6899.5	6670.7	6391.0	6072.6
7.5°	7243.3	7214.3	7285.7	7346.3	7397.1	7381.4	7261.5	7021.8	6661.0	6198.5
10°	6472.2	6439.5	6540.0	6749.4	7056.9	7324.5	7469.7	7320.8	6937.0	6336.6
12.5°	5791.8	5776.0	5842.6	6012.1	6353.5	6866.8	7443.1	7582.3	7224.0	6500.0
15°	5501.2	5481.8	5524.2	5610.2	5828.1	6306.3	7201.0	7761.5	7506.1	6688.9
17.5°	5437.0	5415.3	5433.4	5478.2	5618.6	5983.1	6835.4	7849.9	7800.2	6899.5
20°	5555.7	5537.5	5540.0	5537.5	5635.6	5924.9	6581.1	7816.0	8056.9	7093.2
22.5°	5842.6	5812.4	5813.6	5749.4	5802.7	6026.6	6514.5	7725.2	8285.7	7262.7
25°	6309.9	6255.5	6266.3	6102.9	6088.4	6254.2	6618.6	7655.0	8513.3	7398.3
27.5°	6949.2	6887.4	6854.7	6611.4	6495.2	6577.5	6830.5	7679.2	8728.8	7515.7
30°	7748.2	7673.1	7606.5	7261.5	7050.9	7020.6	7159.8	7839.0	8983.1	7639.2
32.5°	8727.6	8640.4	8519.4	8061.7	7765.1	7606.5	7586.0	8123.5	9280.9	7796.6
35°	9893.5	9779.7	9607.8	9015.7	8640.4	8316.0	8147.7	8533.9	9688.9	8033.9
37.5°	11094.4	10966.1	10808.7	10104.1	9642.9	9164.7	8832.9	9090.8	10232.4	8355.9
40°	12202.2	12058.1	11911.6	11284.5	10789.4	10213.1	9671.9	9795.4	10897.1	8740.9
42.5°	12855.9	12749.4	12693.7	12354.7	11972.2	11387.4	10715.5	10630.8	11644.1	9184.0
45°	12826.9	12783.3	12955.2	13095.6	13004.8	12680.4	11938.3	11554.5	12393.5	9567.8
47.5°	12141.7	12170.7	12554.5	13343.8	13691.3	13860.8	13330.5	12461.3	13044.8	9854.7
50°	10277.2	10301.5	11190.1	12892.3	13868.0	14823.3	14711.9	13346.3	13549.6	10030.3
52.5°	8801.5	8817.2	9198.6	11553.3	13284.5	15307.5	15956.4	14180.4	13918.9	10078.7
55°	6629.5	6684.0	7111.4	9064.2	11766.3	14923.7	16714.3	15040.0	14152.5	10083.5
57.5°	3872.9	3932.2	4460.1	6152.5	9145.3	13586.0	16829.3	15802.7	14311.1	10044.8
60°	1897.1	1922.5	2152.5	3233.7	5639.2	11008.5	15904.4	16171.9	14399.5	10024.2
62.5°	1278.5	1274.8	1284.5	1595.6	2778.5	7072.6	13977.0	15525.4	14352.3	9945.5
65°	1099.3	1086.0	1049.6	1119.9	1439.5	3234.9	10799.0	13595.6	13992.7	9748.2
67.5°	950.4	951.6	952.8	931.0	1027.8	1492.7	6599.3	10709.4	12702.2	8813.6
70°	786.9	797.8	802.7	802.7	837.8	979.4	2817.2	7340.2	10019.4	6910.4
72.5°	716.7	693.7	696.1	684.0	684.0	745.8	1134.4	4161.0	6312.4	3887.4
75°	584.7	599.3	601.7	593.2	565.4	569.0	673.1	1745.8	2701.0	1612.6
77.5°	504.8	504.8	509.7	503.6	481.8	426.2	449.2	676.8	918.9	661.0
80°	405.6	404.4	424.9	437.0	403.1	314.8	286.9	374.1	408.0	290.6
82.5°	197.3	209.4	291.8	332.9	306.3	227.6	175.5	232.4	217.9	128.3
85°	115.0	109.0	130.8	185.2	175.5	125.9	84.7	121.1	113.8	65.4
87.5°	36.3	33.9	26.6	63.0	50.8	35.1	23.0	35.1	31.5	14.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951511
 CATALOG NUMBER: GALN-SB5C-927-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5868.0	0°	5868.0	5868.0	5868.0	5868.0	5868.0	5868.0	5868.0	5868.0	5868.0	5868.0
5887.4	2.5°	5801.5	5658.6	5517.0	5387.4	5308.7	5257.9	5207.0	5150.1	5128.3	5095.6
5903.2	5°	5743.3	5467.3	5221.6	5009.7	4817.2	4665.9	4513.3	4389.8	4334.1	4371.7
5952.8	7.5°	5709.4	5309.9	4931.0	4542.4	4168.3	3869.3	3609.0	3426.2	3343.8	3364.4
6001.2	10°	5679.2	5132.0	4554.5	3940.7	3403.1	3032.7	2766.3	2627.1	2575.1	2586.0
6066.6	12.5°	5651.3	4932.2	4100.5	3293.0	2721.6	2477.0	2400.7	2401.9	2411.6	2418.9
6170.7	15°	5646.5	4691.3	3593.2	2726.4	2353.5	2337.8	2420.1	2472.2	2500.0	2508.5
6257.9	17.5°	5639.2	4403.1	3076.3	2340.2	2263.9	2370.5	2446.7	2480.6	2502.4	2503.6
6342.6	20°	5610.2	4037.5	2599.3	2156.2	2244.6	2336.6	2383.8	2410.4	2428.6	2434.6
6406.8	22.5°	5520.6	3630.8	2227.6	2073.9	2167.1	2240.9	2296.6	2326.9	2337.8	2345.0
6418.9	25°	5359.6	3175.5	1970.9	1995.2	2059.3	2152.5	2197.3	2203.4	2199.8	2210.7
6388.6	27.5°	5148.9	2687.7	1811.1	1888.6	1970.9	2050.8	2075.1	2071.4	2064.2	2076.3
6336.6	30°	4894.7	2249.4	1709.4	1768.8	1881.4	1954.0	1975.8	1967.3	1952.8	1966.1
6309.9	32.5°	4625.9	1891.0	1625.9	1685.2	1807.5	1878.9	1900.7	1892.3	1881.4	1892.3
6340.2	35°	4375.3	1640.4	1548.4	1629.5	1749.4	1819.6	1847.5	1848.7	1848.7	1862.0
6420.1	37.5°	4145.3	1493.9	1484.3	1594.4	1709.4	1772.4	1812.3	1814.8	1762.7	1766.3
6555.7	40°	3932.2	1432.2	1455.2	1571.4	1670.7	1731.2	1733.7	1598.1	1502.4	1500.0
6710.7	42.5°	3757.9	1420.1	1463.7	1569.0	1642.9	1645.3	1474.6	1369.2	1342.6	1343.8
6853.5	45°	3594.4	1416.5	1483.1	1569.0	1601.7	1421.3	1306.3	1278.5	1280.9	1290.6
6917.7	47.5°	3411.6	1401.9	1486.7	1547.2	1483.1	1263.9	1230.0	1217.9	1213.1	1215.5
6903.2	50°	3211.9	1349.9	1440.7	1503.6	1279.7	1196.1	1153.8	1150.1	1156.2	1159.8
6822.0	52.5°	3001.2	1265.1	1362.0	1424.9	1186.4	1136.8	1089.6	1098.1	1124.7	1133.2
6737.3	55°	2863.2	1165.9	1257.9	1267.6	1121.1	1081.1	1041.2	1060.5	1110.2	1125.9
6686.4	57.5°	2826.9	1060.5	1139.2	1128.3	1037.5	1032.7	1008.5	1025.4	1088.4	1111.4
6684.0	60°	2816.0	966.1	1023.0	1014.5	956.4	979.4	973.4	981.8	1003.6	1010.9
6659.8	62.5°	2731.2	891.0	918.9	906.8	883.8	923.7	938.3	920.1	937.0	945.5
6493.9	65°	2515.7	830.5	817.2	808.7	818.4	854.7	883.8	847.5	863.2	887.4
5854.7	67.5°	2159.8	748.2	711.9	721.5	751.8	771.2	808.7	767.6	780.9	822.0
4715.5	70°	1747.0	644.1	611.4	639.2	668.3	708.2	714.3	686.4	717.9	763.9
2877.7	72.5°	1236.1	538.7	515.7	572.6	582.3	634.4	621.1	607.7	651.3	667.1
1422.5	75°	857.1	434.6	421.3	464.9	500.0	544.8	535.1	550.8	642.9	650.1
710.7	77.5°	542.4	337.8	329.3	357.1	405.6	455.2	470.9	650.1	1098.1	1141.6
369.2	80°	314.8	251.8	242.1	263.9	306.3	352.3	454.0	797.8	724.0	715.5
165.9	82.5°	175.5	173.1	161.0	167.1	204.6	254.2	641.6	561.7	456.4	470.9
66.6	85°	82.3	101.7	87.2	83.5	115.0	297.8	428.6	320.8	213.1	208.2
14.5	87.5°	21.8	19.4	19.4	21.8	48.4	256.7	170.7	136.8	81.1	78.7
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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