

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: P956593

Luminaire Tested: **GALN-SB9A-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956593
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-SB9A-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28907 lumens
Efficiency: N/A
Efficacy: 113.1 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

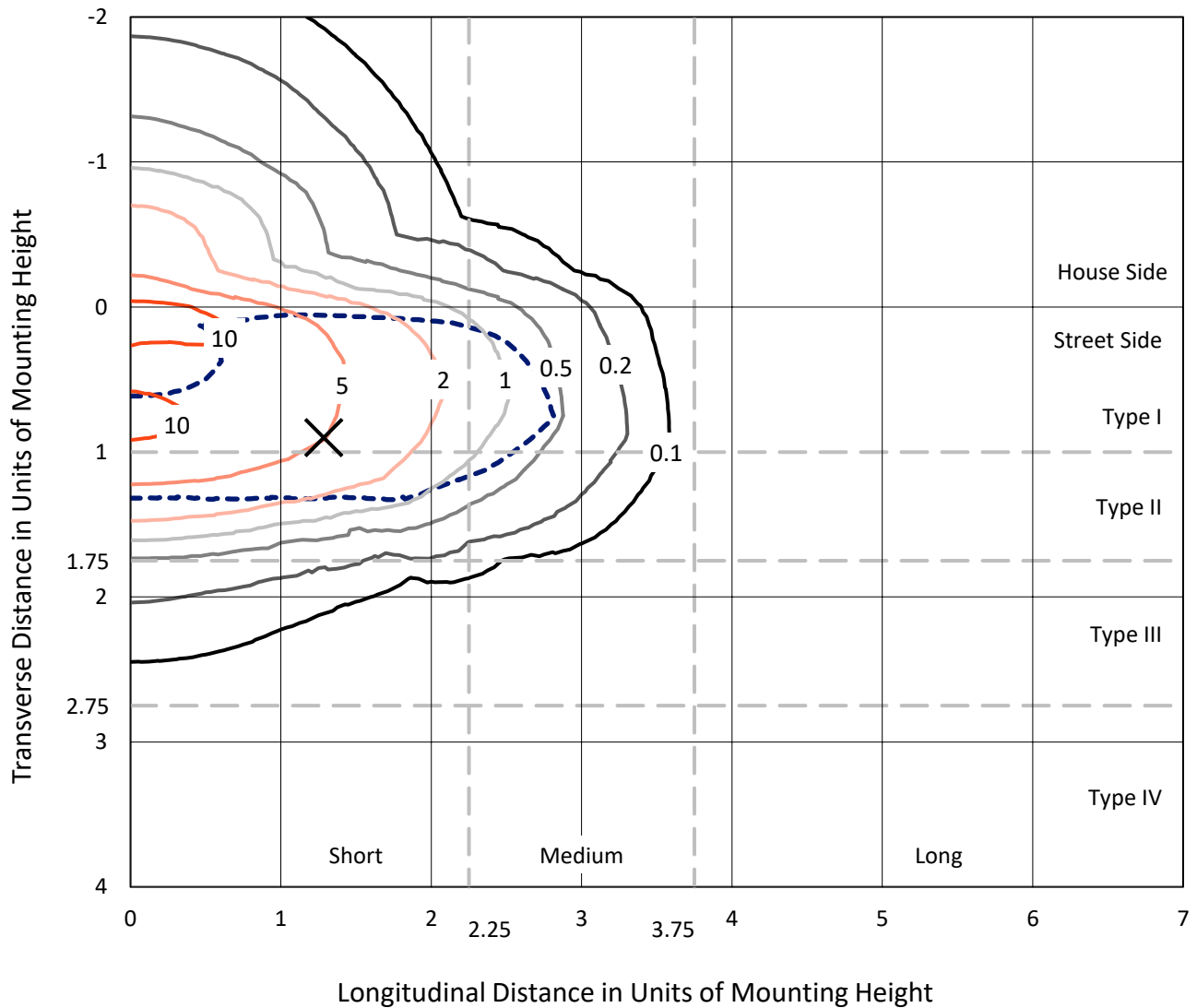
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

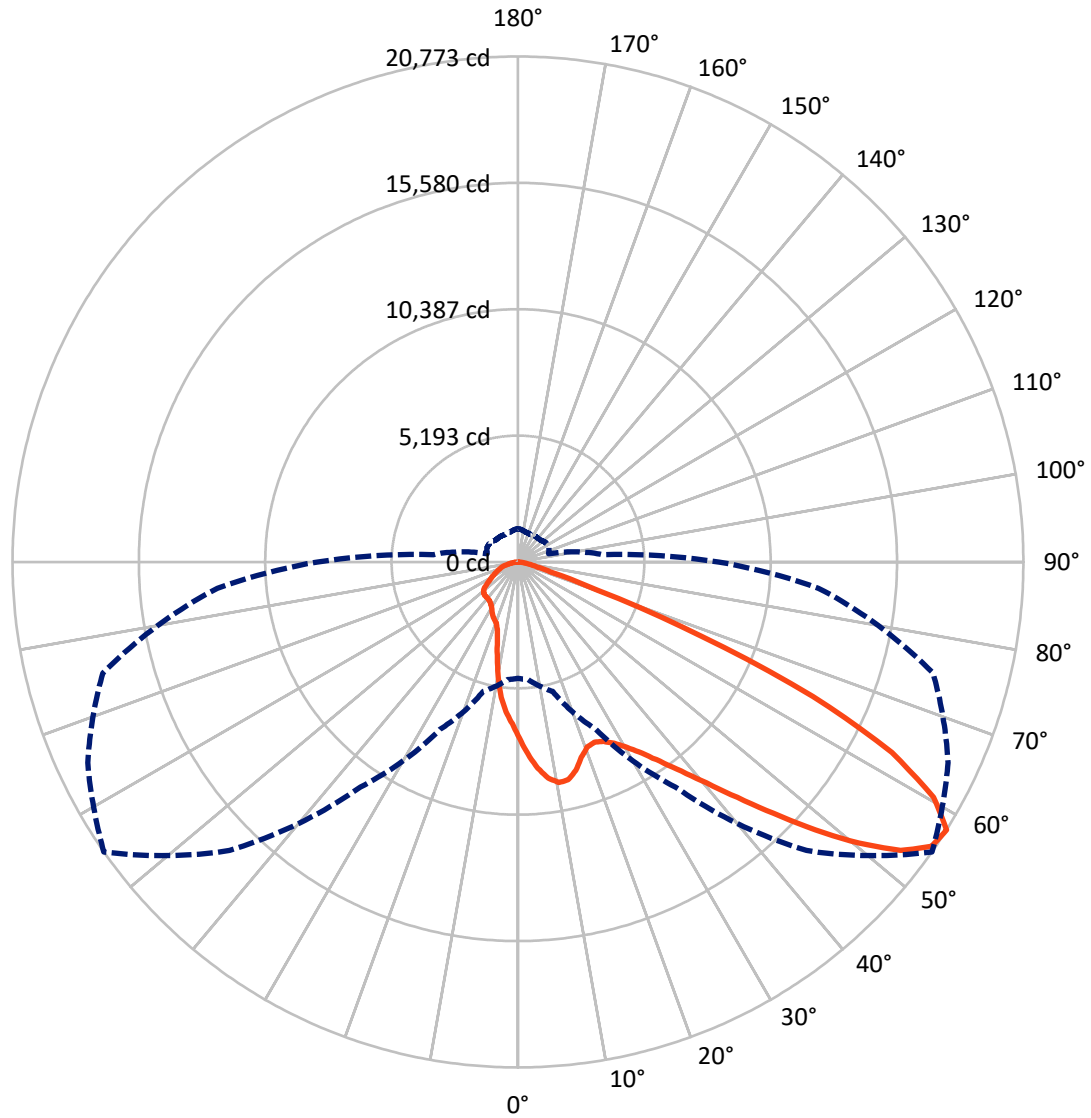
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	5230.6	0.0	5230.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23676.4	0.0	23676.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	28907.0	0.0	28907.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.1	2.3
10°-20°	1696.5	5.9
20°-30°	2707.1	9.4
30°-40°	4286.0	14.8
40°-50°	6560.1	22.7
50°-60°	7026.5	24.3
60°-70°	4420.4	15.3
70°-80°	1307.2	4.5
80°-90°	231.1	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°	28907.0	100.0
0°-180°	28907.0	100.0



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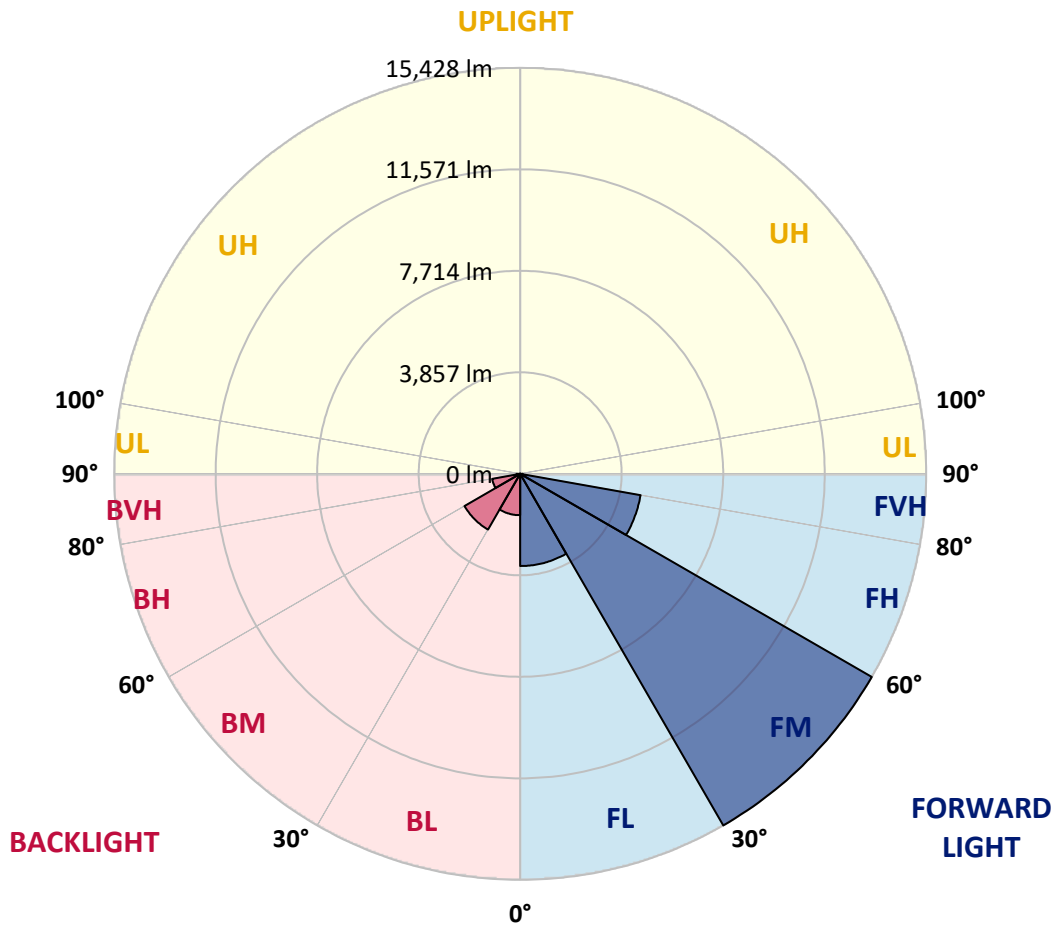
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3503.5	12.1			
FM (30°-60°)	15427.9	53.4			
FH (60°-80°)	4647.4	16.1			G2/5000
FVH (80°-90°)	97.7	0.3			G1/100
BL (0°-30°)	1572.1	5.4	B3/2500		
BM (30°-60°)	2444.7	8.5	B2/2500		
BH (60°-80°)	1080.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	133.5	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°	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2
2.5°	8310.1	8304.2	8337.0	8224.9	8148.7	8045.6	7909.6	7736.3	7549.5	7352.2
5°	9058.8	9006.5	9040.9	8957.2	8873.5	8718.1	8516.3	8233.9	7888.7	7495.7
7.5°	8940.7	8904.9	8993.0	9067.8	9130.5	9111.1	8963.2	8667.3	8222.0	7651.1
10°	7988.8	7948.5	8072.5	8331.0	8710.6	9040.9	9220.2	9036.4	8562.7	7821.5
12.5°	7149.0	7129.6	7211.8	7421.0	7842.4	8476.0	9187.3	9359.2	8916.8	8023.2
15°	6790.4	6766.5	6818.8	6924.9	7193.8	7784.1	8888.4	9580.3	9265.0	8256.3
17.5°	6711.2	6684.3	6706.7	6762.0	6935.3	7385.1	8437.1	9689.4	9628.2	8516.3
20°	6857.6	6835.2	6838.2	6835.2	6956.2	7313.4	8123.3	9647.6	9945.0	8755.4
22.5°	7211.8	7174.4	7175.9	7096.7	7162.5	7438.9	8041.1	9535.5	10227.4	8964.7
25°	7788.6	7721.4	7734.8	7533.1	7515.1	7719.9	8169.7	9448.8	10508.3	9132.0
27.5°	8577.6	8501.4	8461.1	8160.7	8017.2	8118.9	8431.2	9478.7	10774.3	9277.0
30°	9563.9	9471.2	9389.1	8963.2	8703.1	8665.8	8837.6	9676.0	11088.1	9429.4
32.5°	10772.8	10665.2	10515.8	9950.9	9584.8	9389.1	9363.7	10027.1	11455.8	9623.7
35°	12211.9	12071.4	11859.2	11128.5	10665.2	10264.7	10057.0	10533.7	11959.4	9916.6
37.5°	13694.3	13535.9	13341.6	12471.9	11902.6	11312.3	10902.8	11221.1	12630.3	10314.1
40°	15061.6	14883.8	14703.0	13928.9	13317.7	12606.4	11938.4	12090.9	13450.7	10789.3
42.5°	15868.6	15737.1	15668.3	15249.9	14777.7	14055.9	13226.6	13122.0	14372.7	11336.2
45°	15832.7	15778.9	15991.1	16164.5	16052.4	15651.9	14735.9	14262.2	15297.7	11809.9
47.5°	14986.9	15022.8	15496.5	16470.8	16899.7	17108.9	16454.4	15381.4	16101.7	12164.1
50°	12685.6	12715.5	13812.4	15913.4	17117.9	18296.9	18159.4	16473.8	16724.9	12380.8
52.5°	10864.0	10883.4	11354.1	14260.7	16397.6	18894.7	19695.6	17503.4	17180.6	12440.5
55°	8183.1	8250.4	8777.9	11188.3	14523.7	18421.0	20631.1	18564.4	17469.1	12446.5
57.5°	4780.5	4853.7	5505.2	7594.3	11288.4	16769.7	20773.1	19505.9	17664.8	12398.7
60°	2341.7	2373.0	2657.0	3991.4	6960.7	13588.2	19631.4	19961.6	17773.9	12373.3
62.5°	1578.0	1573.6	1585.5	1969.6	3429.6	8730.0	17252.4	19163.7	17715.6	12276.2
65°	1356.9	1340.4	1295.6	1382.3	1776.8	3992.9	13329.7	16781.6	17271.8	12032.6
67.5°	1173.1	1174.6	1176.1	1149.2	1268.7	1842.5	8145.7	13219.1	15678.8	10878.9
70°	971.3	984.8	990.8	990.8	1034.1	1208.9	3477.4	9060.3	12367.3	8529.8
72.5°	884.7	856.3	859.3	844.3	844.3	920.5	1400.2	5136.1	7791.6	4798.4
75°	721.8	739.7	742.7	732.2	697.9	702.3	830.9	2154.9	3333.9	1990.5
77.5°	623.1	623.1	629.1	621.7	594.8	526.0	554.4	835.3	1134.2	815.9
80°	500.6	499.1	524.5	539.5	497.6	388.5	354.2	461.8	503.6	358.6
82.5°	243.6	258.5	360.1	410.9	378.1	280.9	216.7	286.9	269.0	158.4
85°	142.0	134.5	161.4	228.6	216.7	155.4	104.6	149.4	140.5	80.7
87.5°	44.8	41.8	32.9	77.7	62.8	43.3	28.4	43.3	38.9	17.9
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°
7243.2	0°	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2	7243.2
7267.1	2.5°	7161.0	6984.6	6809.8	6649.9	6552.8	6490.0	6427.2	6357.0	6330.1	6289.8
7286.5	5°	7089.2	6748.5	6445.2	6183.7	5946.1	5759.3	5571.0	5418.5	5349.8	5396.1
7347.8	7.5°	7047.4	6554.3	6086.5	5606.8	5145.1	4776.0	4454.7	4229.0	4127.4	4152.8
7407.5	10°	7010.0	6334.6	5621.8	4864.1	4200.6	3743.4	3414.6	3242.8	3178.5	3191.9
7488.2	12.5°	6975.7	6088.0	5061.4	4064.7	3359.3	3057.5	2963.3	2964.8	2976.8	2985.7
7616.7	15°	6969.7	5790.6	4435.3	3365.3	2905.0	2885.6	2987.2	3051.5	3085.9	3096.3
7724.3	17.5°	6960.7	5435.0	3797.2	2888.6	2794.5	2926.0	3020.1	3061.9	3088.8	3090.3
7828.9	20°	6924.9	4983.7	3208.4	2661.5	2770.5	2884.1	2942.4	2975.3	2997.7	3005.2
7908.1	22.5°	6814.3	4481.6	2749.6	2559.8	2674.9	2766.1	2834.8	2872.2	2885.6	2894.6
7923.1	25°	6615.5	3919.7	2432.8	2462.7	2541.9	2657.0	2712.3	2719.7	2715.2	2728.7
7885.7	27.5°	6355.5	3317.5	2235.6	2331.2	2432.8	2531.4	2561.3	2556.8	2547.9	2562.8
7821.5	30°	6041.7	2776.5	2110.0	2183.3	2322.2	2411.9	2438.8	2428.3	2410.4	2426.8
7788.6	32.5°	5709.9	2334.2	2006.9	2080.1	2231.1	2319.2	2346.1	2335.7	2322.2	2335.7
7826.0	35°	5400.6	2024.9	1911.3	2011.4	2159.3	2246.0	2280.4	2281.9	2281.9	2298.3
7924.6	37.5°	5116.7	1844.0	1832.1	1968.1	2110.0	2187.7	2237.1	2240.0	2175.8	2180.3
8092.0	40°	4853.7	1767.8	1796.2	1939.7	2062.2	2136.9	2139.9	1972.6	1854.5	1851.5
8283.2	42.5°	4638.5	1752.9	1806.7	1936.7	2027.8	2030.8	1820.1	1690.1	1657.2	1658.7
8459.6	45°	4436.8	1748.4	1830.6	1936.7	1977.0	1754.4	1612.4	1578.0	1581.0	1593.0
8538.8	47.5°	4211.1	1730.5	1835.1	1909.8	1830.6	1560.1	1518.3	1503.3	1497.3	1500.3
8520.8	50°	3964.5	1666.2	1778.3	1856.0	1579.5	1476.4	1424.1	1419.6	1427.1	1431.6
8420.7	52.5°	3704.5	1561.6	1681.2	1758.9	1464.5	1403.2	1344.9	1355.4	1388.3	1398.7
8316.1	55°	3534.2	1439.1	1552.6	1564.6	1383.8	1334.5	1285.1	1309.1	1370.3	1389.8
8253.3	57.5°	3489.3	1309.1	1406.2	1392.7	1280.7	1274.7	1244.8	1265.7	1343.4	1371.8
8250.4	60°	3475.9	1192.5	1262.7	1252.3	1180.5	1208.9	1201.5	1211.9	1238.8	1247.8
8220.5	62.5°	3371.3	1099.8	1134.2	1119.3	1090.9	1140.2	1158.1	1135.7	1156.6	1167.1
8015.7	65°	3105.3	1025.1	1008.7	998.2	1010.2	1055.0	1090.9	1046.1	1065.5	1095.4
7226.7	67.5°	2665.9	923.5	878.7	890.6	928.0	951.9	998.2	947.4	963.9	1014.7
5820.5	70°	2156.4	795.0	754.7	789.0	824.9	874.2	881.7	847.3	886.2	942.9
3552.1	72.5°	1525.7	665.0	636.6	706.8	718.8	783.0	766.6	750.2	804.0	823.4
1755.9	75°	1058.0	536.5	520.0	573.8	617.2	672.5	660.5	679.9	793.5	802.5
877.2	77.5°	669.5	416.9	406.5	440.8	500.6	561.9	581.3	802.5	1355.4	1409.2
455.8	80°	388.5	310.8	298.9	325.8	378.1	434.9	560.4	984.8	893.6	883.2
204.7	82.5°	216.7	213.7	198.7	206.2	252.5	313.8	792.0	693.4	563.4	581.3
82.2	85°	101.6	125.5	107.6	103.1	142.0	367.6	529.0	396.0	263.0	257.0
17.9	87.5°	26.9	23.9	23.9	26.9	59.8	316.8	210.7	168.9	100.1	97.1
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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