

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: P956509

Luminaire Tested: **GALN-SB9A-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956509
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-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25294 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

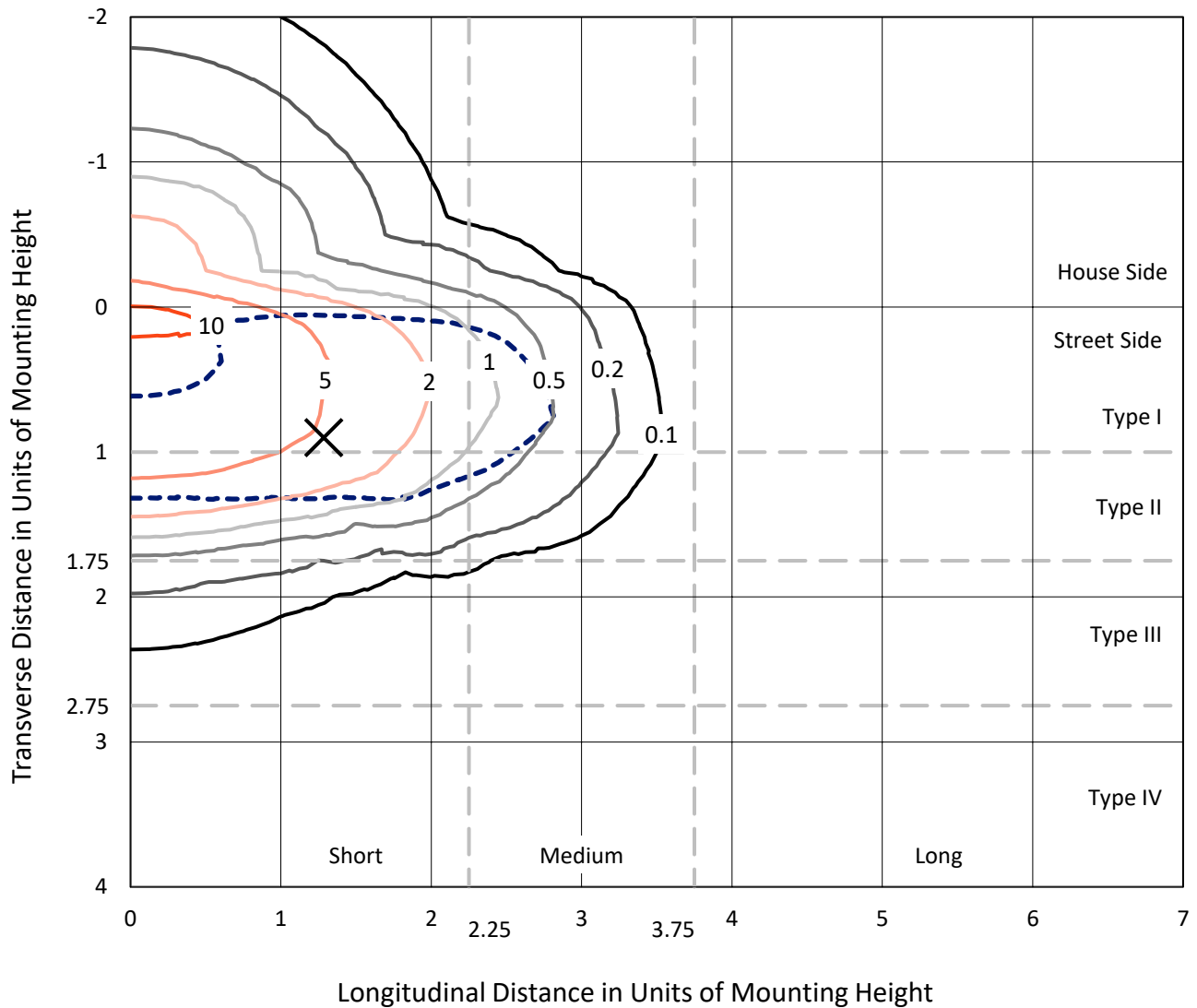
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

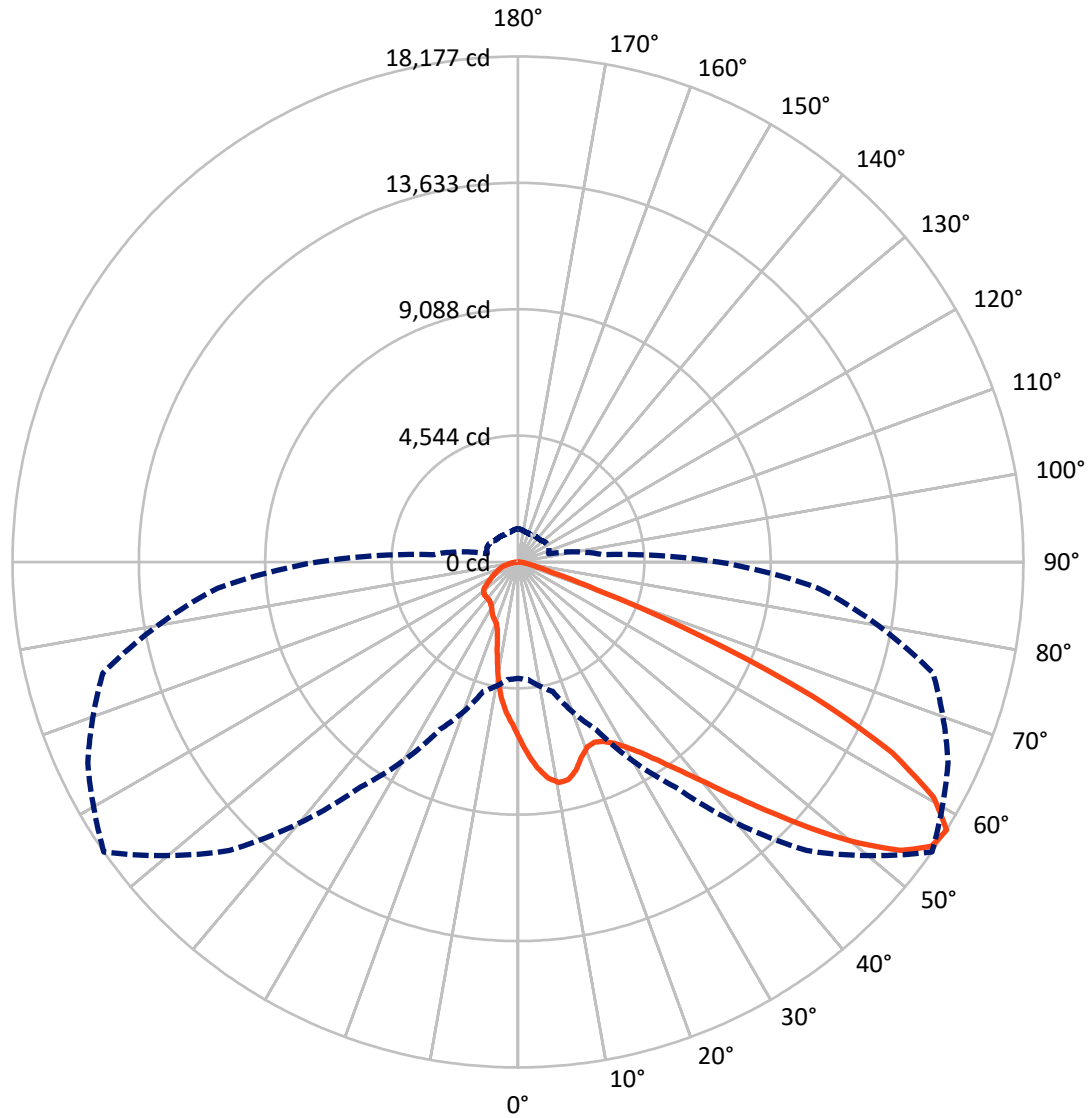
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	4576.8	0.0	4576.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	20717.2	0.0	20717.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	25294.0	0.0	25294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.1	2.3
10°-20°	1484.4	5.9
20°-30°	2368.7	9.4
30°-40°	3750.3	14.8
40°-50°	5740.2	22.7
50°-60°	6148.3	24.3
60°-70°	3867.9	15.3
70°-80°	1143.8	4.5
80°-90°	202.2	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°	25294.0	100.0
0°-180°	25294.0	100.0

Coefficient of Utilization



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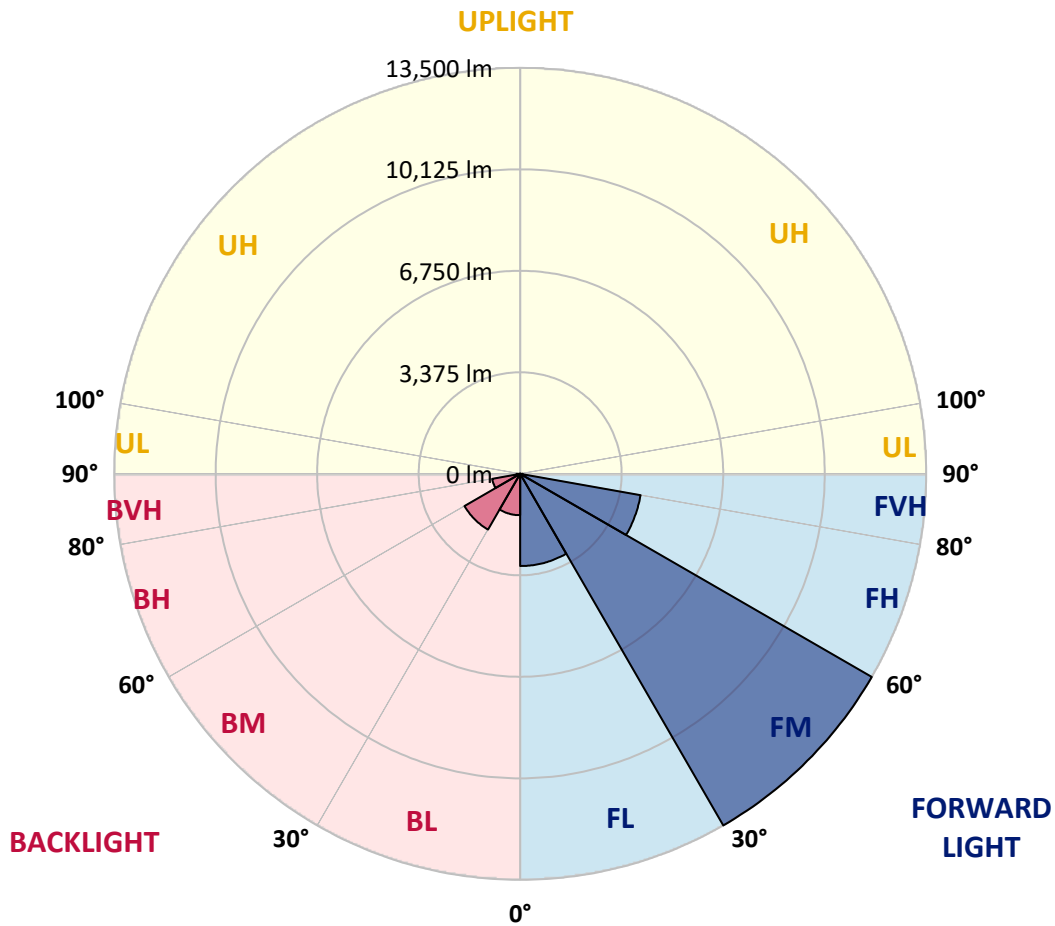
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3065.6	12.1			
FM (30°-60°)	13499.6	53.4			
FH (60°-80°)	4066.5	16.1			G2/5000
FVH (80°-90°)	85.4	0.3			G1/100
BL (0°-30°)	1375.6	5.4	B3/2500		
BM (30°-60°)	2139.2	8.5	B2/2500		
BH (60°-80°)	945.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	116.8	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°	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9
2.5°	7271.5	7266.2	7295.0	7196.9	7130.3	7040.0	6921.0	6769.4	6605.9	6433.3
5°	7926.6	7880.8	7910.9	7837.7	7764.4	7628.4	7451.9	7204.8	6902.7	6558.8
7.5°	7823.3	7791.9	7869.0	7934.4	7989.3	7972.3	7842.9	7584.0	7194.3	6694.8
10°	6990.3	6955.0	7063.6	7289.8	7621.9	7910.9	8067.8	7907.0	7492.5	6843.9
12.5°	6255.5	6238.5	6310.4	6493.5	6862.2	7416.6	8039.0	8189.4	7802.3	7020.4
15°	5941.7	5920.7	5966.5	6059.3	6294.7	6811.2	7777.5	8382.9	8107.0	7224.4
17.5°	5872.4	5848.8	5868.4	5916.8	6068.5	6462.1	7382.6	8478.4	8424.8	7451.9
20°	6000.5	5980.9	5983.5	5980.9	6086.8	6399.3	7108.0	8441.8	8702.0	7661.1
22.5°	6310.4	6277.7	6279.0	6209.7	6267.2	6509.1	7036.1	8343.7	8949.1	7844.2
25°	6815.1	6756.3	6768.1	6591.5	6575.8	6755.0	7148.6	8267.8	9194.9	7990.6
27.5°	7505.5	7438.8	7403.5	7140.7	7015.2	7104.1	7377.4	8294.0	9427.7	8117.5
30°	8368.5	8287.5	8215.5	7842.9	7615.4	7582.7	7733.0	8466.6	9702.3	8250.8
32.5°	9426.4	9332.2	9201.5	8707.2	8386.8	8215.5	8193.3	8773.9	10023.9	8420.8
35°	10685.6	10562.7	10377.0	9737.6	9332.2	8981.8	8800.0	9217.2	10464.6	8677.1
37.5°	11982.7	11844.1	11674.1	10913.1	10414.9	9898.4	9540.1	9818.6	11051.7	9024.9
40°	13179.1	13023.5	12865.3	12188.0	11653.2	11030.8	10446.3	10579.7	11769.6	9440.8
42.5°	13885.2	13770.2	13710.0	13343.9	12930.7	12299.1	11573.4	11481.9	12576.3	9919.3
45°	13853.8	13806.8	13992.4	14144.1	14046.1	13695.6	12894.1	12479.6	13385.7	10333.8
47.5°	13113.8	13145.1	13559.6	14412.2	14787.5	14970.5	14397.8	13459.0	14089.2	10643.7
50°	11100.1	11126.2	12086.0	13924.5	14978.4	16010.0	15889.8	14414.8	14634.5	10833.3
52.5°	9506.1	9523.1	9935.0	12478.3	14348.1	16533.1	17233.9	15315.7	15033.3	10885.6
55°	7160.3	7219.2	7680.7	9789.9	12708.4	16118.6	18052.5	16244.1	15285.6	10890.9
57.5°	4183.0	4247.0	4817.1	6645.1	9877.5	14673.7	18176.7	17067.9	15456.9	10849.0
60°	2049.0	2076.4	2324.9	3492.6	6090.7	11889.9	17177.7	17466.7	15552.4	10826.8
62.5°	1380.8	1376.9	1387.3	1723.4	3000.9	7638.9	15096.0	16768.4	15501.4	10741.8
65°	1187.3	1172.9	1133.7	1209.5	1554.7	3493.9	11663.6	14684.2	15113.0	10528.7
67.5°	1026.5	1027.8	1029.1	1005.5	1110.1	1612.2	7127.6	11566.9	13719.2	9519.2
70°	849.9	861.7	866.9	866.9	904.8	1057.8	3042.7	7927.9	10821.6	7463.7
72.5°	774.1	749.2	751.9	738.8	738.8	805.5	1225.2	4494.2	6817.7	4198.6
75°	631.6	647.3	649.9	640.7	610.6	614.6	727.0	1885.5	2917.2	1741.7
77.5°	545.3	545.3	550.5	544.0	520.4	460.3	485.1	730.9	992.5	713.9
80°	438.0	436.7	459.0	472.0	435.4	340.0	309.9	404.0	440.7	313.8
82.5°	213.1	226.2	315.1	359.6	330.8	245.8	189.6	251.1	235.4	138.6
85°	124.2	117.7	141.2	200.1	189.6	136.0	91.5	130.8	122.9	70.6
87.5°	39.2	36.6	28.8	68.0	54.9	37.9	24.8	37.9	34.0	15.7
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°
6337.9	0°	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9
6358.8	2.5°	6265.9	6111.6	5958.7	5818.7	5733.8	5678.8	5623.9	5562.5	5538.9	5503.6
6375.8	5°	6203.2	5905.0	5639.6	5410.8	5202.9	5039.4	4874.7	4741.3	4681.1	4721.7
6429.4	7.5°	6166.6	5735.1	5325.8	4906.1	4502.0	4179.0	3897.9	3700.5	3611.5	3633.8
6481.7	10°	6133.9	5542.8	4919.1	4256.2	3675.6	3275.5	2987.8	2837.5	2781.2	2793.0
6552.3	12.5°	6103.8	5327.1	4428.8	3556.6	2939.4	2675.3	2592.9	2594.2	2604.7	2612.6
6664.8	15°	6098.6	5066.9	3880.9	2944.7	2541.9	2524.9	2613.9	2670.1	2700.2	2709.3
6758.9	17.5°	6090.7	4755.7	3322.6	2527.6	2445.2	2560.2	2642.6	2679.2	2702.8	2704.1
6850.4	20°	6059.3	4360.8	2807.4	2328.8	2424.3	2523.6	2574.6	2603.4	2623.0	2629.5
6919.7	22.5°	5962.6	3921.4	2406.0	2239.9	2340.6	2420.3	2480.5	2513.2	2524.9	2532.8
6932.8	25°	5788.7	3429.8	2128.7	2154.9	2224.2	2324.9	2373.3	2379.8	2375.9	2387.6
6900.1	27.5°	5561.2	2902.8	1956.1	2039.8	2128.7	2215.0	2241.2	2237.3	2229.4	2242.5
6843.9	30°	5286.6	2429.5	1846.3	1910.4	2032.0	2110.4	2134.0	2124.8	2109.1	2123.5
6815.1	32.5°	4996.3	2042.4	1756.1	1820.2	1952.2	2029.4	2052.9	2043.8	2032.0	2043.8
6847.8	35°	4725.6	1771.8	1672.4	1760.0	1889.5	1965.3	1995.4	1996.7	1996.7	2011.1
6934.1	37.5°	4477.2	1613.6	1603.1	1722.1	1846.3	1914.3	1957.5	1960.1	1903.8	1907.8
7080.6	40°	4247.0	1546.9	1571.7	1697.2	1804.5	1869.8	1872.5	1726.0	1622.7	1620.1
7247.9	42.5°	4058.7	1533.8	1580.9	1694.6	1774.4	1777.0	1592.6	1478.9	1450.1	1451.4
7402.2	45°	3882.2	1529.9	1601.8	1694.6	1729.9	1535.1	1410.9	1380.8	1383.4	1393.9
7471.5	47.5°	3684.8	1514.2	1605.7	1671.1	1601.8	1365.1	1328.5	1315.4	1310.2	1312.8
7455.8	50°	3469.0	1458.0	1556.0	1624.0	1382.1	1291.9	1246.1	1242.2	1248.7	1252.7
7368.2	52.5°	3241.5	1366.4	1471.0	1539.0	1281.4	1227.8	1176.8	1186.0	1214.7	1223.9
7276.7	55°	3092.4	1259.2	1358.6	1369.0	1210.8	1167.7	1124.5	1145.4	1199.1	1216.1
7221.8	57.5°	3053.2	1145.4	1230.4	1218.7	1120.6	1115.4	1089.2	1107.5	1175.5	1200.4
7219.2	60°	3041.4	1043.5	1104.9	1095.8	1033.0	1057.8	1051.3	1060.4	1084.0	1091.8
7193.0	62.5°	2949.9	962.4	992.5	979.4	954.5	997.7	1013.4	993.8	1012.1	1021.2
7013.9	65°	2717.2	897.0	882.6	873.5	883.9	923.2	954.5	915.3	932.3	958.5
6323.5	67.5°	2332.7	808.1	768.9	779.3	812.0	832.9	873.5	829.0	843.4	887.8
5093.0	70°	1886.8	695.6	660.3	690.4	721.8	764.9	771.5	741.4	775.4	825.1
3108.1	72.5°	1335.0	581.9	557.0	618.5	628.9	685.2	670.8	656.4	703.5	720.5
1536.4	75°	925.8	469.4	455.0	502.1	540.0	588.4	578.0	595.0	694.3	702.2
767.6	77.5°	585.8	364.8	355.7	385.7	438.0	491.7	508.6	702.2	1186.0	1233.1
398.8	80°	340.0	272.0	261.5	285.1	330.8	380.5	490.3	861.7	781.9	772.8
179.1	82.5°	189.6	187.0	173.9	180.4	221.0	274.6	693.0	606.7	493.0	508.6
71.9	85°	88.9	109.8	94.1	90.2	124.2	321.7	462.9	346.5	230.1	224.9
15.7	87.5°	23.5	20.9	20.9	23.5	52.3	277.2	184.4	147.8	87.6	85.0
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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