

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: P955144

Luminaire Tested: **GALN-SB8A-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955144
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-SB8A-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26732 lumens
Efficiency: N/A
Efficacy: 117.7 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

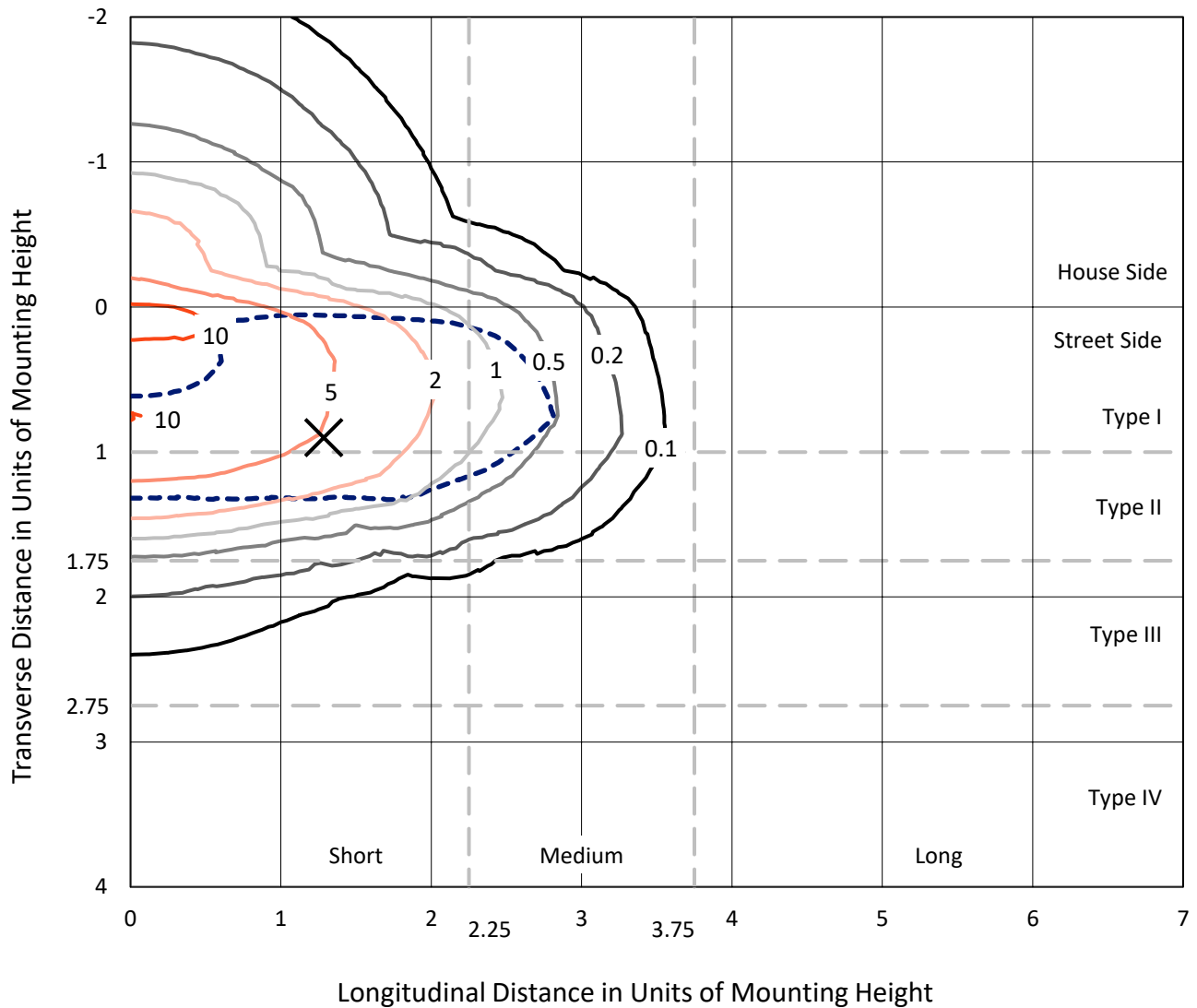
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

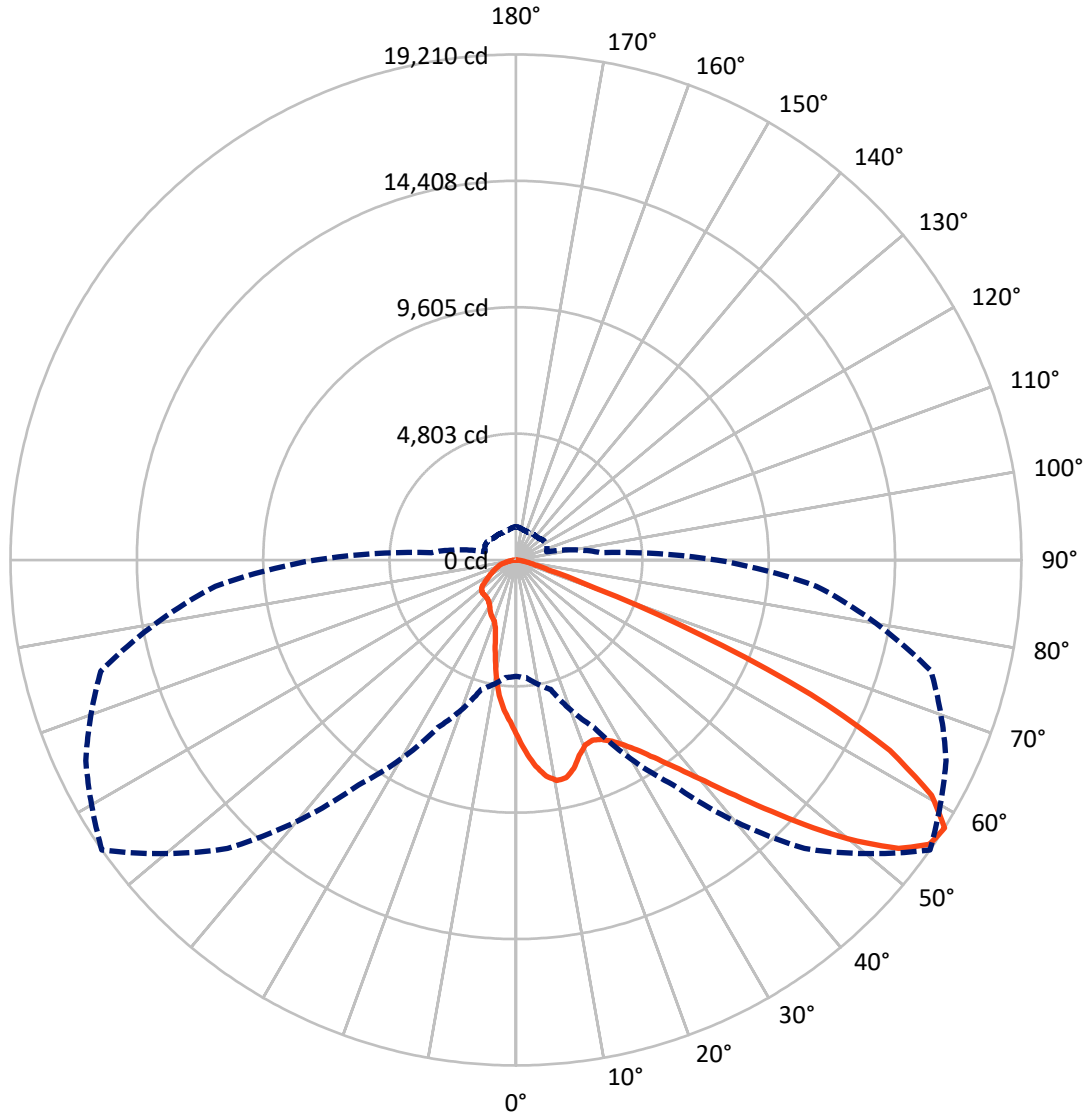
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	4837.0	0.0	4837.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21895.0	0.0	21895.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	26732.0	0.0	26732.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.5	2.3
10°-20°	1568.8	5.9
20°-30°	2503.4	9.4
30°-40°	3963.5	14.8
40°-50°	6066.5	22.7
50°-60°	6497.8	24.3
60°-70°	4087.8	15.3
70°-80°	1208.8	4.5
80°-90°	213.7	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°	26732.0	100.0
0°-180°	26732.0	100.0



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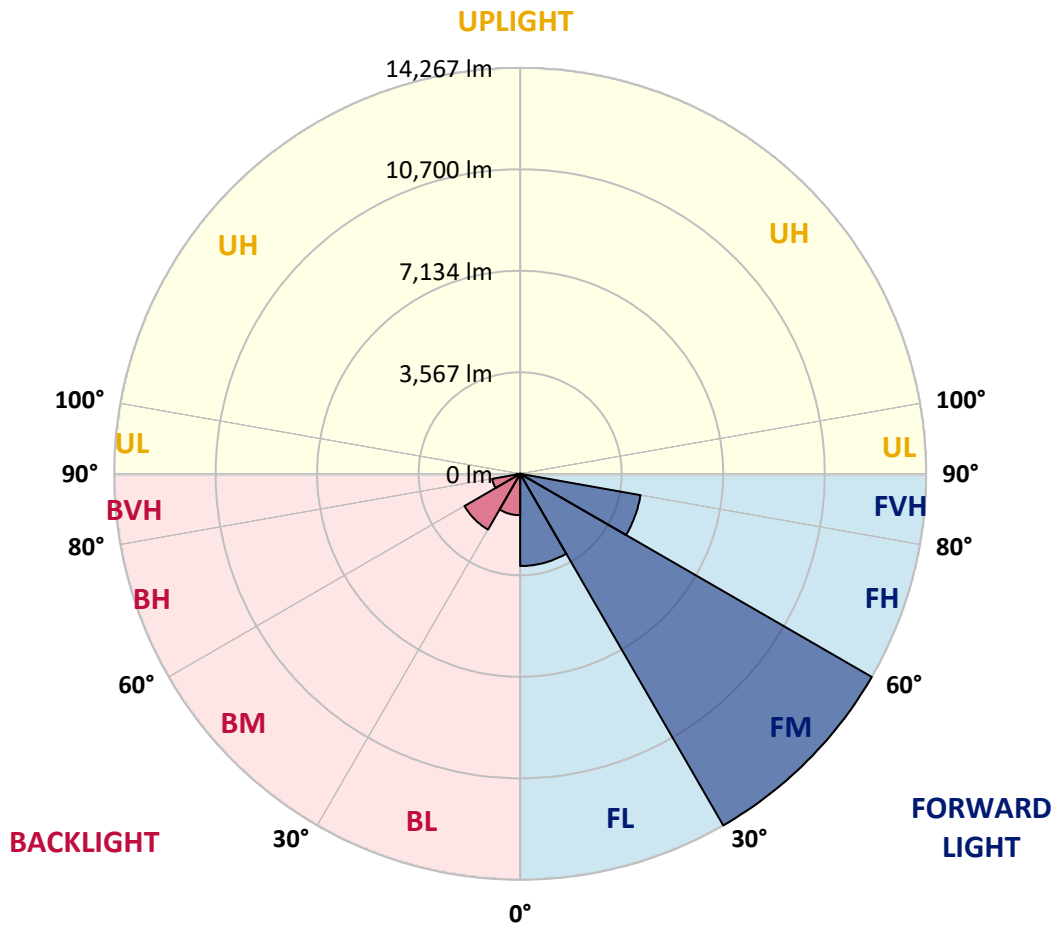
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3239.9	12.1			
FM (30°-60°)	14267.1	53.4			
FH (60°-80°)	4297.7	16.1			G2/5000
FVH (80°-90°)	90.3	0.3			G1/100
BL (0°-30°)	1453.8	5.4	B3/2500		
BM (30°-60°)	2260.8	8.5	B2/2500		
BH (60°-80°)	999.0	3.7	B2/1000		G2/1000
BVH (80°-90°)	123.4	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°	6698.2	6698.2	6698.2	6698.2	6698.2	6698.2	6698.2	6698.2	6698.2	6698.2
2.5°	7684.9	7679.3	7709.7	7606.1	7535.6	7440.3	7314.5	7154.2	6981.5	6799.1
5°	8377.2	8328.8	8360.6	8283.2	8205.8	8062.1	7875.6	7614.4	7295.2	6931.7
7.5°	8268.0	8234.9	8316.4	8385.5	8443.5	8425.6	8288.8	8015.1	7603.3	7075.4
10°	7387.8	7350.4	7465.1	7704.2	8055.2	8360.6	8526.5	8356.5	7918.4	7233.0
12.5°	6611.1	6593.1	6669.2	6862.6	7252.3	7838.3	8496.1	8655.0	8245.9	7419.5
15°	6279.4	6257.3	6305.7	6403.8	6652.6	7198.4	8219.7	8859.5	8567.9	7635.1
17.5°	6206.2	6181.3	6202.1	6253.2	6413.5	6829.5	7802.3	8960.4	8903.7	7875.6
20°	6341.6	6320.9	6323.7	6320.9	6432.8	6763.1	7512.1	8921.7	9196.7	8096.7
22.5°	6669.2	6634.6	6636.0	6562.7	6623.5	6879.2	7436.1	8818.0	9457.9	8290.1
25°	7202.6	7140.4	7152.8	6966.3	6949.7	7139.0	7555.0	8737.9	9717.7	8444.9
27.5°	7932.2	7861.7	7824.4	7546.7	7414.0	7508.0	7796.8	8765.5	9963.7	8579.0
30°	8844.3	8758.6	8682.6	8288.8	8048.3	8013.8	8172.7	8947.9	10253.9	8719.9
32.5°	9962.3	9862.8	9724.6	9202.2	8863.6	8682.6	8659.1	9272.7	10593.8	8899.6
35°	11293.1	11163.2	10966.9	10291.2	9862.8	9492.4	9300.3	9741.2	11059.5	9170.4
37.5°	12663.9	12517.4	12337.8	11533.5	11007.0	10461.1	10082.5	10376.8	11680.0	9538.0
40°	13928.4	13763.9	13596.7	12880.9	12315.7	11657.9	11040.2	11181.1	12438.7	9977.5
42.5°	14674.6	14553.0	14489.4	14102.5	13665.8	12998.3	12231.4	12134.6	13291.3	10483.3
45°	14641.5	14591.7	14787.9	14948.2	14844.6	14474.2	13627.1	13189.1	14146.7	10921.3
47.5°	13859.3	13892.5	14330.5	15231.5	15628.1	15821.6	15216.3	14224.1	14890.2	11248.8
50°	11731.1	11758.8	12773.1	14716.1	15829.9	16920.2	16793.1	15234.3	15466.5	11449.2
52.5°	10046.6	10064.5	10499.8	13187.7	15163.8	17473.0	18213.7	16186.4	15887.9	11504.5
55°	7567.4	7629.6	8117.4	10346.4	13430.9	17034.9	19078.8	17167.6	16154.7	11510.0
57.5°	4420.8	4488.5	5091.0	7022.9	10439.0	15507.9	19210.1	18038.2	16335.7	11465.8
60°	2165.5	2194.5	2457.1	3691.1	6437.0	12565.8	18154.3	18459.7	16436.6	11442.3
62.5°	1459.3	1455.2	1466.2	1821.4	3171.5	8073.2	15954.3	17721.8	16382.7	11352.5
65°	1254.8	1239.6	1198.1	1278.3	1643.1	3692.5	12326.7	15519.0	15972.2	11127.2
67.5°	1084.8	1086.2	1087.6	1062.7	1173.3	1703.9	7532.9	12224.5	14499.1	10060.4
70°	898.2	910.7	916.2	916.2	956.3	1118.0	3215.7	8378.6	11436.8	7888.0
72.5°	818.1	791.8	794.6	780.8	780.8	851.3	1294.9	4749.7	7205.3	4437.3
75°	667.5	684.1	686.8	677.1	645.4	649.5	768.3	1992.7	3083.1	1840.7
77.5°	576.3	576.3	581.8	574.9	550.0	486.4	512.7	772.5	1048.9	754.5
80°	462.9	461.6	485.1	498.9	460.2	359.3	327.5	427.0	465.7	331.7
82.5°	225.3	239.1	333.0	380.0	349.6	259.8	200.4	265.3	248.7	146.5
85°	131.3	124.4	149.2	211.4	200.4	143.7	96.7	138.2	129.9	74.6
87.5°	41.5	38.7	30.4	71.9	58.0	40.1	26.3	40.1	35.9	16.6
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°
6698.2	0°	6698.2	6698.2	6698.2	6698.2	6698.2	6698.2	6698.2	6698.2	6698.2	6698.2
6720.3	2.5°	6622.2	6459.1	6297.4	6149.5	6059.7	6001.7	5943.6	5878.7	5853.8	5816.5
6738.2	5°	6555.8	6240.8	5960.2	5718.4	5498.7	5325.9	5151.8	5010.8	4947.3	4990.1
6794.9	7.5°	6517.1	6061.1	5628.6	5185.0	4758.0	4416.6	4119.5	3910.8	3816.9	3840.4
6850.2	10°	6482.6	5858.0	5198.8	4498.2	3884.6	3461.7	3157.7	2998.8	2939.3	2951.8
6924.8	12.5°	6450.8	5629.9	4680.6	3758.8	3106.6	2827.4	2740.3	2741.7	2752.8	2761.1
7043.7	15°	6445.3	5354.9	4101.5	3112.1	2686.5	2668.5	2762.5	2821.9	2853.7	2863.3
7143.2	17.5°	6437.0	5026.0	3511.5	2671.3	2584.2	2705.8	2792.9	2831.6	2856.4	2857.8
7239.9	20°	6403.8	4608.7	2967.0	2461.2	2562.1	2667.1	2721.0	2751.4	2772.1	2779.0
7313.1	22.5°	6301.6	4144.4	2542.7	2367.2	2473.6	2557.9	2621.5	2656.1	2668.5	2676.8
7326.9	25°	6117.8	3624.8	2249.8	2277.4	2350.6	2457.1	2508.2	2515.1	2511.0	2523.4
7292.4	27.5°	5877.3	3067.9	2067.4	2155.8	2249.8	2341.0	2368.6	2364.5	2356.2	2370.0
7233.0	30°	5587.1	2567.6	1951.3	2019.0	2147.5	2230.4	2255.3	2245.6	2229.0	2244.2
7202.6	32.5°	5280.3	2158.6	1855.9	1923.6	2063.2	2144.7	2169.6	2159.9	2147.5	2159.9
7237.1	35°	4994.3	1872.5	1767.5	1860.1	1996.9	2077.0	2108.8	2110.2	2110.2	2125.4
7328.3	37.5°	4731.7	1705.3	1694.2	1820.0	1951.3	2023.1	2068.7	2071.5	2012.1	2016.2
7483.1	40°	4488.5	1634.8	1661.1	1793.7	1907.1	1976.1	1978.9	1824.1	1715.0	1712.2
7660.0	42.5°	4289.5	1621.0	1670.7	1791.0	1875.3	1878.0	1683.2	1563.0	1532.6	1533.9
7823.1	45°	4102.9	1616.8	1692.9	1791.0	1828.3	1622.4	1491.1	1459.3	1462.1	1473.1
7896.3	47.5°	3894.3	1600.3	1697.0	1766.1	1692.9	1442.7	1404.0	1390.2	1384.7	1387.4
7879.7	50°	3666.2	1540.8	1644.5	1716.3	1460.7	1365.3	1317.0	1312.8	1319.7	1323.9
7787.1	52.5°	3425.8	1444.1	1554.7	1626.5	1354.3	1297.6	1243.7	1253.4	1283.8	1293.5
7690.4	55°	3268.2	1330.8	1435.8	1446.9	1279.7	1234.1	1188.5	1210.6	1267.2	1285.2
7632.4	57.5°	3226.8	1210.6	1300.4	1288.0	1184.3	1178.8	1151.1	1170.5	1242.3	1268.6
7629.6	60°	3214.3	1102.8	1167.7	1158.0	1091.7	1118.0	1111.1	1120.7	1145.6	1153.9
7601.9	62.5°	3117.6	1017.1	1048.9	1035.1	1008.8	1054.4	1071.0	1050.3	1069.6	1079.3
7412.6	65°	2871.6	948.0	932.8	923.1	934.2	975.6	1008.8	967.3	985.3	1012.9
6683.0	67.5°	2465.3	854.0	812.6	823.6	858.2	880.3	923.1	876.1	891.3	938.3
5382.6	70°	1994.1	735.2	697.9	729.7	762.8	808.4	815.3	783.5	819.5	872.0
3284.8	72.5°	1410.9	615.0	588.7	653.6	664.7	724.1	708.9	693.7	743.5	761.4
1623.8	75°	978.4	496.1	480.9	530.7	570.7	621.9	610.8	628.8	733.8	742.1
811.2	77.5°	619.1	385.6	375.9	407.7	462.9	519.6	537.6	742.1	1253.4	1303.2
421.5	80°	359.3	287.4	276.4	301.3	349.6	402.1	518.2	910.7	826.4	816.7
189.3	82.5°	200.4	197.6	183.8	190.7	233.5	290.2	732.4	641.2	521.0	537.6
76.0	85°	94.0	116.1	99.5	95.4	131.3	340.0	489.2	366.2	243.2	237.7
16.6	87.5°	24.9	22.1	22.1	24.9	55.3	293.0	194.9	156.2	92.6	89.8
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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