

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: P952099

Luminaire Tested: **GALN-SB6A-760-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952099
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-SB6A-760-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29269 lumens
Efficiency: N/A
Efficacy: 171.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

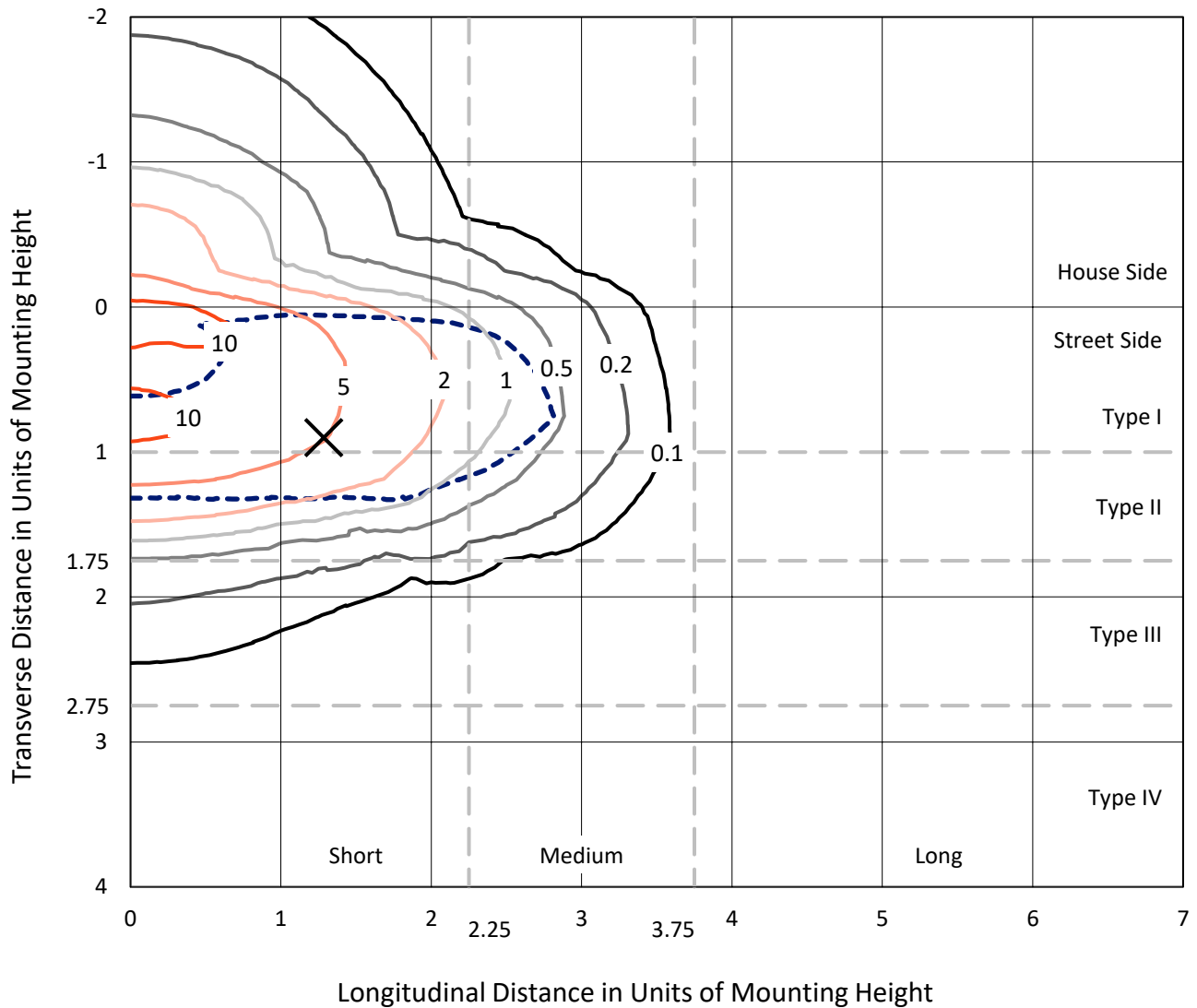
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

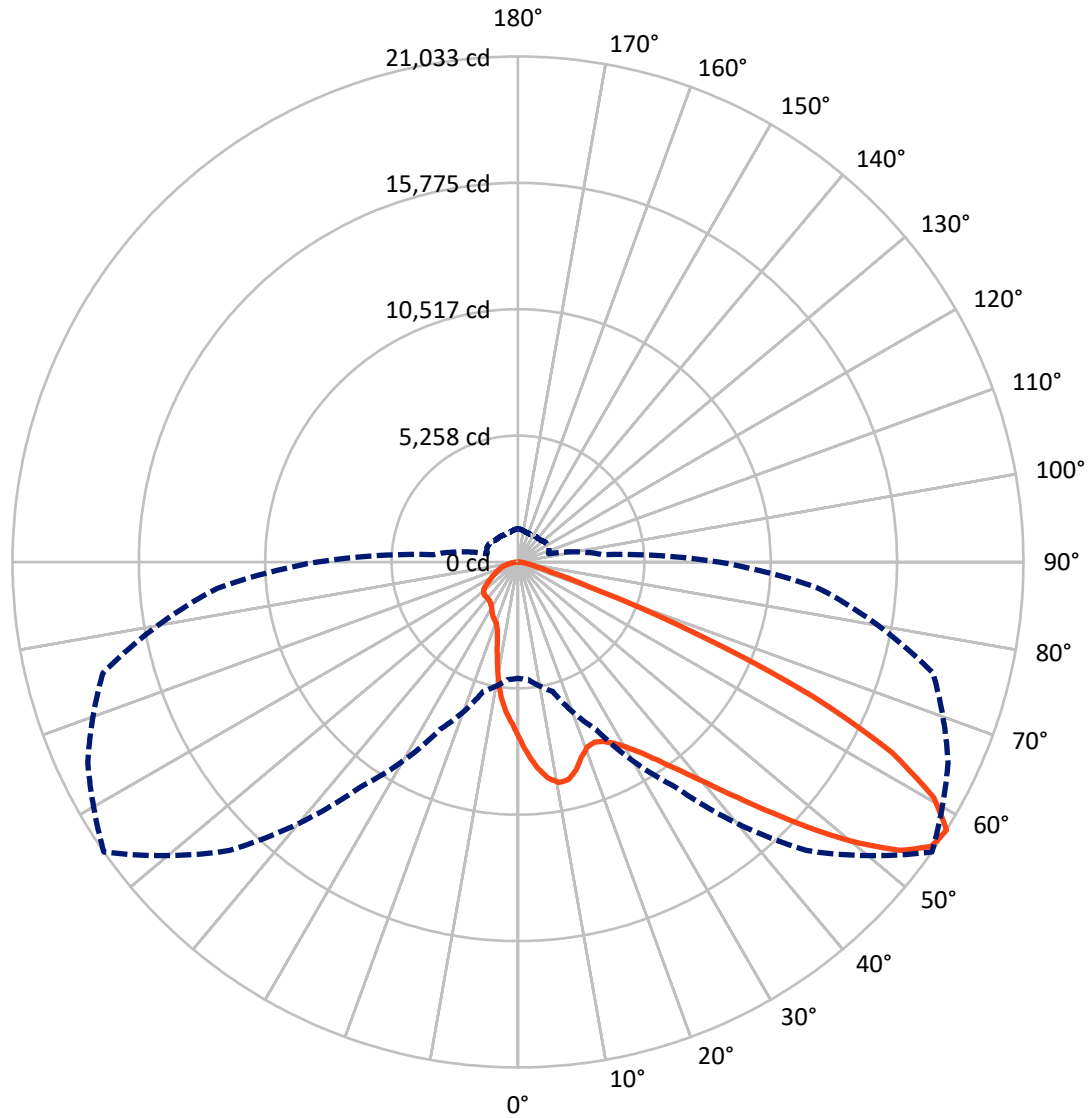
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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	5296.1	0.0	5296.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23972.9	0.0	23972.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	29269.0	0.0	29269.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.5	2.3
10°-20°	1717.7	5.9
20°-30°	2741.0	9.4
30°-40°	4339.6	14.8
40°-50°	6642.3	22.7
50°-60°	7114.5	24.3
60°-70°	4475.8	15.3
70°-80°	1323.6	4.5
80°-90°	234.0	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°	29269.0	100.0
0°-180°	29269.0	100.0



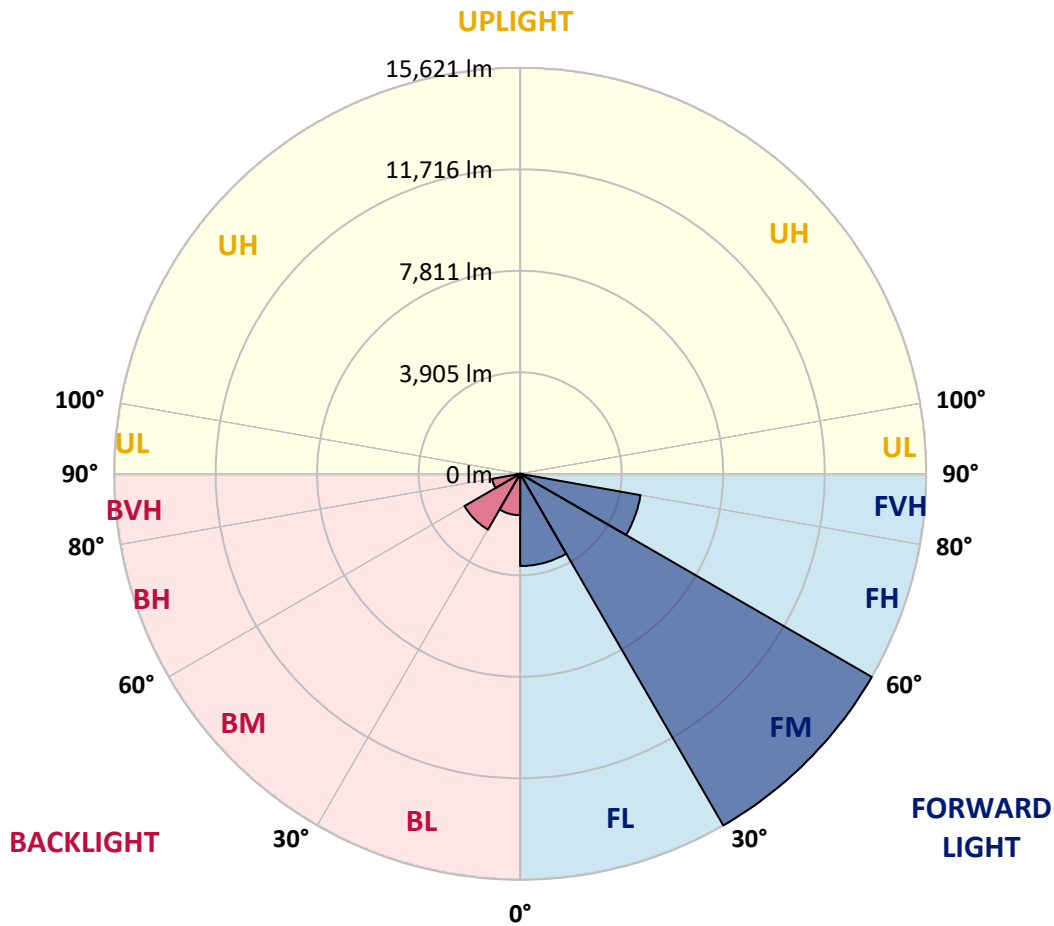
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3547.4	12.1			
FM (30°-60°)	15621.1	53.4			
FH (60°-80°)	4705.6	16.1			G2/5000
FVH (80°-90°)	98.9	0.3			G1/100
BL (0°-30°)	1591.8	5.4	B3/2500		
BM (30°-60°)	2475.3	8.5	B2/2500		
BH (60°-80°)	1093.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	135.1	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7333.9	7333.9	7333.9	7333.9	7333.9	7333.9	7333.9	7333.9	7333.9	7333.9
2.5°	8414.2	8408.1	8441.4	8327.9	8250.8	8146.4	8008.7	7833.2	7644.0	7444.3
5°	9172.2	9119.3	9154.1	9069.4	8984.6	8827.3	8623.0	8337.0	7987.5	7589.6
7.5°	9052.7	9016.4	9105.7	9181.3	9244.9	9225.2	9075.4	8775.8	8324.9	7746.9
10°	8088.9	8048.0	8173.6	8435.4	8819.7	9154.1	9335.7	9149.5	8669.9	7919.4
12.5°	7238.5	7218.9	7302.1	7513.9	7940.6	8582.1	9302.4	9476.4	9028.5	8123.7
15°	6875.4	6851.2	6904.1	7011.6	7283.9	7881.6	8999.8	9700.3	9381.0	8359.7
17.5°	6795.2	6768.0	6790.7	6846.7	7022.2	7477.6	8542.8	9810.8	9748.7	8623.0
20°	6943.5	6920.8	6923.8	6920.8	7043.4	7405.0	8225.1	9768.4	10069.5	8865.1
22.5°	7302.1	7264.3	7265.8	7185.6	7252.2	7532.1	8141.8	9654.9	10355.5	9076.9
25°	7886.1	7818.0	7831.7	7627.4	7609.2	7816.5	8272.0	9567.2	10639.9	9246.4
27.5°	8685.0	8607.9	8567.0	8262.9	8117.6	8220.5	8536.8	9597.4	10909.3	9393.2
30°	9683.7	9589.9	9506.6	9075.4	8812.1	8774.3	8948.3	9797.1	11227.0	9547.5
32.5°	10907.7	10798.8	10647.5	10075.5	9704.8	9506.6	9480.9	10152.7	11599.2	9744.2
35°	12364.8	12222.6	12007.7	11267.8	10798.8	10393.3	10183.0	10665.6	12109.1	10040.7
37.5°	13865.8	13705.4	13508.7	12628.1	12051.6	11454.0	11039.4	11361.7	12788.5	10443.2
40°	15250.3	15070.2	14887.1	14103.3	13484.5	12764.3	12087.9	12242.3	13619.2	10924.4
42.5°	16067.3	15934.2	15864.6	15440.9	14962.8	14232.0	13392.2	13286.3	14552.7	11478.2
45°	16031.0	15976.5	16191.4	16366.9	16253.4	15847.9	14920.4	14440.8	15489.3	11957.8
47.5°	15174.6	15210.9	15690.6	16677.1	17111.3	17323.2	16660.4	15574.1	16303.4	12316.4
50°	12844.5	12874.7	13985.3	16112.7	17332.2	18526.1	18386.9	16680.1	16934.3	12535.8
52.5°	11000.0	11019.7	11496.3	14439.2	16602.9	19131.3	19942.3	17722.6	17395.8	12596.3
55°	8285.6	8353.7	8887.8	11328.4	14705.5	18651.6	20889.5	18796.9	17687.8	12602.4
57.5°	4840.3	4914.5	5574.2	7689.4	11429.7	16979.7	21033.2	19750.1	17886.0	12554.0
60°	2371.0	2402.8	2690.2	4041.4	7047.9	13758.4	19877.2	20211.6	17996.5	12528.2
62.5°	1597.8	1593.3	1605.4	1994.2	3472.5	8839.4	17468.4	19403.6	17937.5	12429.9
65°	1373.9	1357.2	1311.8	1399.6	1799.0	4042.9	13496.6	16991.8	17488.1	12183.3
67.5°	1187.8	1189.3	1190.8	1163.6	1284.6	1865.6	8247.8	13384.6	15875.2	11015.2
70°	983.5	997.1	1003.2	1003.2	1047.0	1224.1	3520.9	9173.8	12522.2	8636.6
72.5°	895.7	867.0	870.0	854.9	854.9	932.1	1417.7	5200.4	7889.2	4858.5
75°	730.8	749.0	752.0	741.4	706.6	711.1	841.3	2181.9	3375.7	2015.4
77.5°	631.0	631.0	637.0	629.4	602.2	532.6	561.3	845.8	1148.4	826.1
80°	506.9	505.4	531.1	546.2	503.9	393.4	358.6	467.5	509.9	363.1
82.5°	246.6	261.8	364.7	416.1	382.8	284.5	219.4	290.5	272.4	160.4
85°	143.7	136.2	163.4	231.5	219.4	157.4	105.9	151.3	142.2	81.7
87.5°	45.4	42.4	33.3	78.7	63.5	43.9	28.7	43.9	39.3	18.2
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°
7333.9	0°	7333.9	7333.9	7333.9	7333.9	7333.9	7333.9	7333.9	7333.9	7333.9	7333.9
7358.1	2.5°	7250.6	7072.1	6895.1	6733.2	6634.8	6571.3	6507.7	6436.6	6409.4	6368.5
7377.7	5°	7178.0	6833.0	6525.9	6261.1	6020.5	5831.4	5640.7	5486.4	5416.8	5463.7
7439.8	7.5°	7135.6	6636.3	6162.7	5677.0	5209.5	4835.8	4510.5	4282.0	4179.1	4204.8
7500.3	10°	7097.8	6413.9	5692.2	4925.1	4253.2	3790.2	3457.4	3283.4	3218.3	3231.9
7582.0	12.5°	7063.0	6164.3	5124.8	4115.6	3401.4	3095.7	3000.4	3001.9	3014.0	3023.1
7712.1	15°	7057.0	5863.2	4490.8	3407.4	2941.4	2921.7	3024.6	3089.7	3124.5	3135.1
7821.1	17.5°	7047.9	5503.0	3844.7	2924.8	2829.4	2962.6	3057.9	3100.3	3127.5	3129.0
7927.0	20°	7011.6	5046.1	3248.6	2694.8	2805.2	2920.2	2979.2	3012.5	3035.2	3042.8
8007.2	22.5°	6899.6	4537.7	2784.1	2591.9	2708.4	2800.7	2870.3	2908.1	2921.7	2930.8
8022.3	25°	6698.4	3968.8	2463.3	2493.5	2573.7	2690.2	2746.2	2753.8	2749.3	2762.9
7984.5	27.5°	6435.1	3359.0	2263.6	2360.4	2463.3	2563.1	2593.4	2588.9	2579.8	2594.9
7919.4	30°	6117.4	2811.3	2136.5	2210.6	2351.3	2442.1	2469.3	2458.7	2440.6	2457.2
7886.1	32.5°	5781.4	2363.4	2032.1	2106.2	2259.0	2348.3	2375.5	2364.9	2351.3	2364.9
7924.0	35°	5468.2	2050.2	1935.2	2036.6	2186.4	2274.1	2308.9	2310.5	2310.5	2327.1
8023.8	37.5°	5180.8	1867.1	1855.0	1992.7	2136.5	2215.1	2265.1	2268.1	2203.0	2207.6
8193.3	40°	4914.5	1790.0	1818.7	1964.0	2088.0	2163.7	2166.7	1997.3	1877.7	1874.7
8387.0	42.5°	4696.6	1774.8	1829.3	1960.9	2053.2	2056.3	1842.9	1711.3	1678.0	1679.5
8565.5	45°	4492.3	1770.3	1853.5	1960.9	2001.8	1776.3	1632.6	1597.8	1600.8	1612.9
8645.7	47.5°	4263.8	1752.1	1858.1	1933.7	1853.5	1579.6	1537.3	1522.2	1516.1	1519.1
8627.5	50°	4014.2	1687.1	1800.6	1879.2	1599.3	1494.9	1442.0	1437.4	1445.0	1449.5
8526.2	52.5°	3750.9	1581.2	1702.2	1780.9	1482.8	1420.8	1361.8	1372.4	1405.6	1416.2
8420.2	55°	3578.4	1457.1	1572.1	1584.2	1401.1	1351.2	1301.2	1325.5	1387.5	1407.2
8356.7	57.5°	3533.0	1325.5	1423.8	1410.2	1296.7	1290.7	1260.4	1281.6	1360.3	1389.0
8353.7	60°	3519.4	1207.4	1278.5	1268.0	1195.3	1224.1	1216.5	1227.1	1254.3	1263.4
8323.4	62.5°	3413.5	1113.6	1148.4	1133.3	1104.5	1154.5	1172.6	1149.9	1171.1	1181.7
8116.1	65°	3144.2	1038.0	1021.3	1010.7	1022.8	1068.2	1104.5	1059.2	1078.8	1109.1
7317.2	67.5°	2699.3	935.1	889.7	901.8	939.6	963.8	1010.7	959.3	975.9	1027.4
5893.4	70°	2183.4	805.0	764.1	798.9	835.2	885.1	892.7	857.9	897.3	954.7
3596.6	72.5°	1544.8	673.3	644.6	715.7	727.8	792.8	776.2	759.6	814.0	833.7
1777.9	75°	1071.3	543.2	526.5	581.0	624.9	680.9	668.8	688.4	803.4	812.5
888.2	77.5°	677.9	422.1	411.6	446.4	506.9	568.9	588.6	812.5	1372.4	1426.8
461.5	80°	393.4	314.7	302.6	329.8	382.8	440.3	567.4	997.1	904.8	894.2
207.3	82.5°	219.4	216.4	201.2	208.8	255.7	317.7	801.9	702.1	570.4	588.6
83.2	85°	102.9	127.1	108.9	104.4	143.7	372.2	535.6	401.0	266.3	260.2
18.2	87.5°	27.2	24.2	24.2	27.2	60.5	320.8	213.3	171.0	101.4	98.3
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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