

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: P952645

Luminaire Tested: **GALN-SB6B-940-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952645  
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-SB6B-940-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

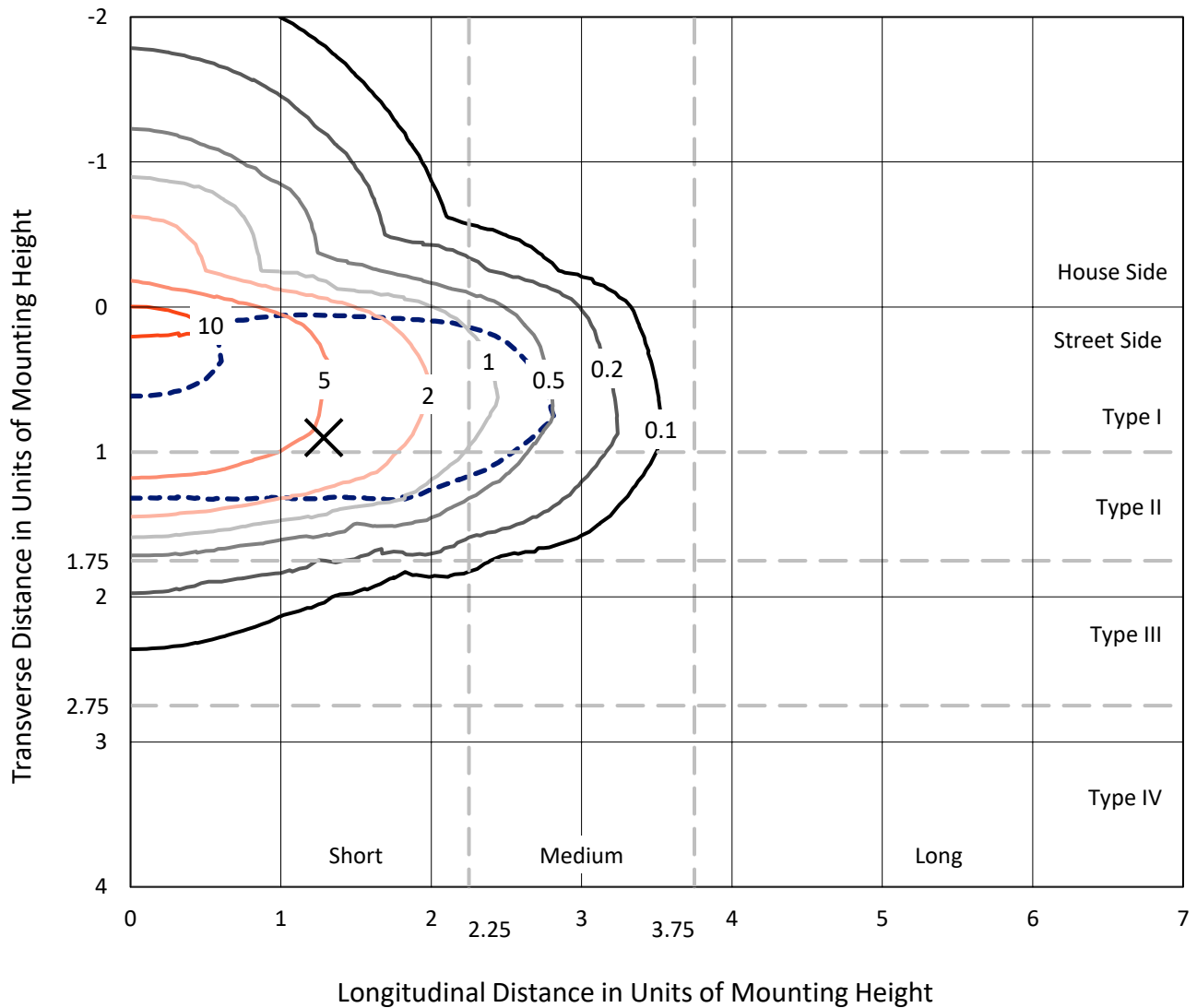
Lumens per Lamp: N/A  
Luminaire Lumens: 25166 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

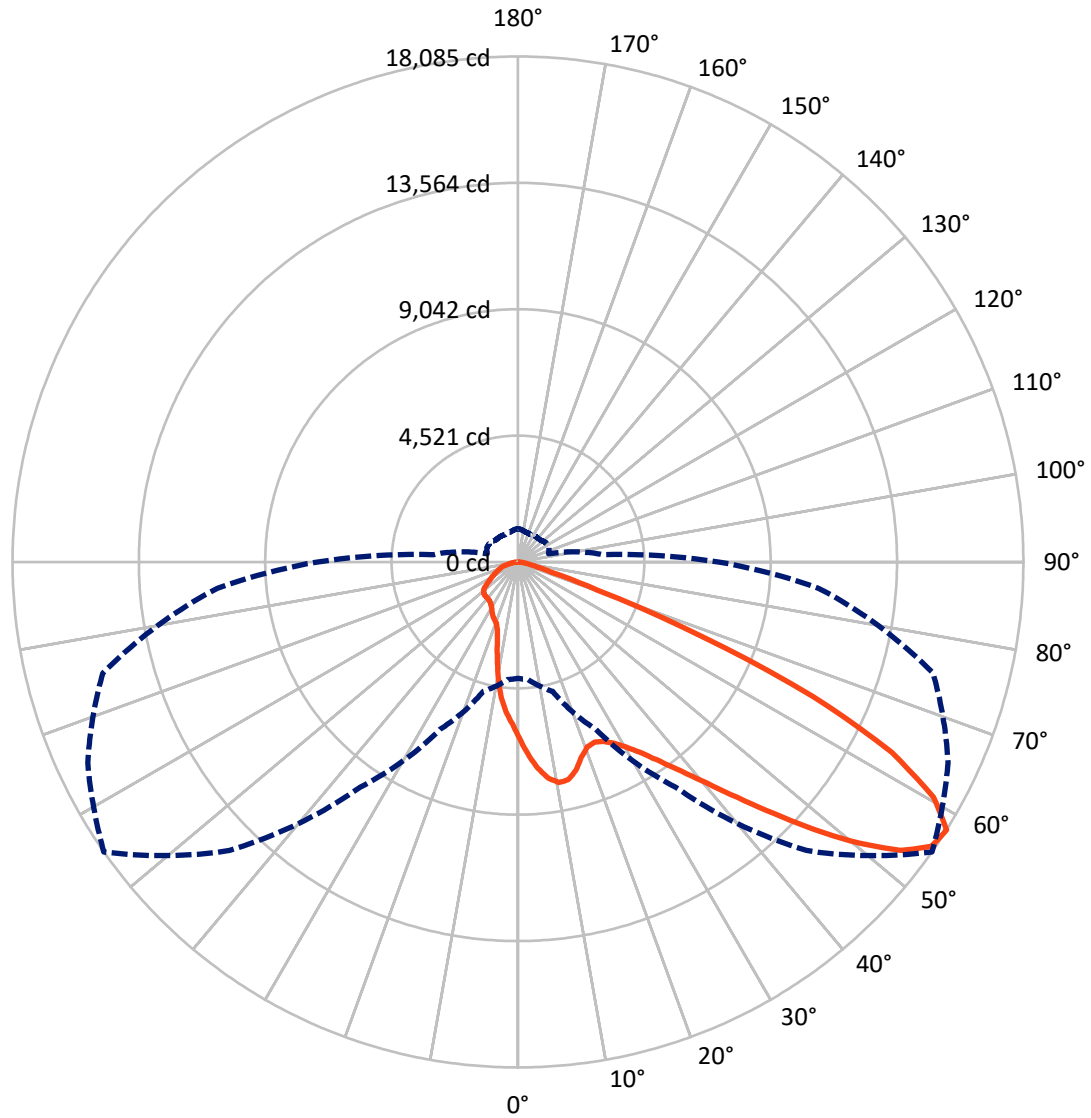
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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
<b>House Side</b>	Lumens	4553.7	0.0	4553.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	20612.3	0.0	20612.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	25166.0	0.0	25166.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	585.1	2.3
10°-20°	1476.9	5.9
20°-30°	2356.7	9.4
30°-40°	3731.3	14.8
40°-50°	5711.1	22.7
50°-60°	6117.2	24.3
60°-70°	3848.3	15.3
70°-80°	1138.0	4.5
80°-90°	201.2	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°	25166.0	100.0
0°-180°	25166.0	100.0

**Coefficient of Utilization**



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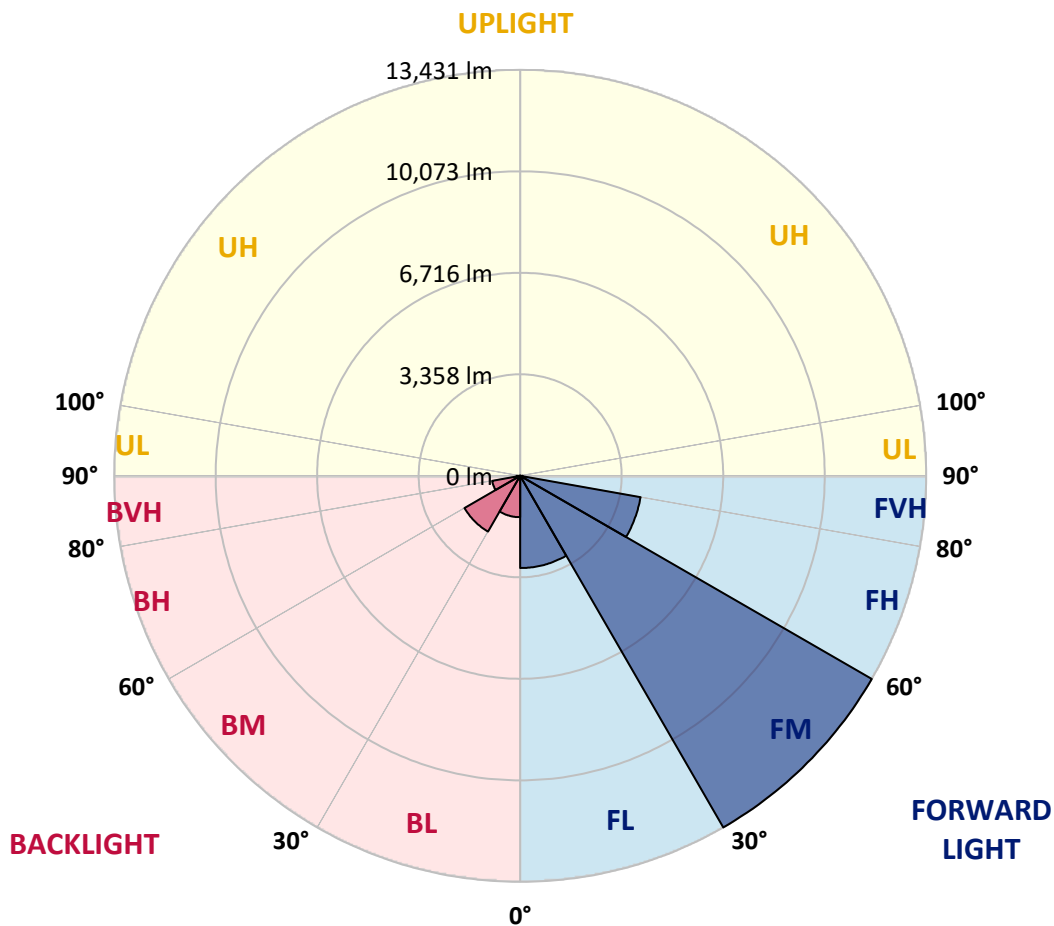
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3050.1	12.1			
FM (30°-60°)	13431.3	53.4			
FH (60°-80°)	4045.9	16.1			G2/5000
FVH (80°-90°)	85.0	0.3			G1/100
BL (0°-30°)	1368.7	5.4	B3/2500		
BM (30°-60°)	2128.3	8.5	B2/2500		
BH (60°-80°)	940.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	116.2	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°	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8
2.5°	7234.7	7229.5	7258.1	7160.5	7094.2	7004.4	6886.0	6735.1	6572.5	6400.8
5°	7886.5	7840.9	7870.8	7798.0	7725.1	7589.8	7414.2	7168.3	6867.8	6525.6
7.5°	7783.7	7752.5	7829.2	7894.3	7948.9	7932.0	7803.2	7545.6	7157.9	6660.9
10°	6955.0	6919.8	7027.8	7252.9	7583.3	7870.8	8027.0	7866.9	7454.5	6809.3
12.5°	6223.8	6206.9	6278.5	6460.6	6827.5	7379.1	7998.3	8148.0	7762.9	6984.9
15°	5911.6	5890.8	5936.3	6028.7	6262.9	6776.7	7738.1	8340.5	8066.0	7187.8
17.5°	5842.6	5819.2	5838.7	5886.9	6037.8	6429.4	7345.3	8435.5	8382.1	7414.2
20°	5970.1	5950.6	5953.2	5950.6	6056.0	6366.9	7072.1	8399.0	8657.9	7622.4
22.5°	6278.5	6245.9	6247.2	6178.3	6235.5	6476.2	7000.5	8301.5	8903.8	7804.5
25°	6780.6	6722.1	6733.8	6558.2	6542.6	6720.8	7112.4	8226.0	9148.4	7950.2
27.5°	7467.5	7401.2	7366.1	7104.6	6979.7	7068.1	7340.1	8252.0	9380.0	8076.4
30°	8326.2	8245.5	8174.0	7803.2	7576.8	7544.3	7693.9	8423.8	9653.2	8209.1
32.5°	9378.7	9285.0	9154.9	8663.1	8344.4	8174.0	8151.9	8729.5	9973.2	8378.2
35°	10631.5	10509.2	10324.5	9688.3	9285.0	8936.3	8755.5	9170.5	10411.6	8633.2
37.5°	11922.1	11784.2	11615.0	10857.9	10362.2	9848.3	9491.8	9769.0	10995.8	8979.3
40°	13112.4	12957.6	12800.2	12126.3	11594.2	10975.0	10393.4	10526.1	11710.0	9393.0
42.5°	13815.0	13700.5	13640.6	13276.4	12865.3	12236.9	11514.9	11423.8	12512.7	9869.1
45°	13783.7	13736.9	13921.6	14072.6	13975.0	13626.3	12828.8	12416.4	13318.0	10281.5
47.5°	13047.4	13078.6	13491.0	14339.2	14712.6	14894.8	14324.9	13390.8	14017.9	10589.9
50°	11043.9	11069.9	12024.8	13854.0	14902.6	15929.0	15809.3	14341.9	14560.4	10778.5
52.5°	9458.0	9474.9	9884.7	12415.1	14275.5	16449.4	17146.7	15238.2	14957.2	10830.5
55°	7124.1	7182.6	7641.9	9740.3	12644.1	16037.0	17961.1	16161.9	15208.3	10835.7
57.5°	4161.8	4225.5	4792.8	6611.5	9827.5	14599.4	18084.7	16981.5	15378.7	10794.1
60°	2038.6	2065.9	2313.1	3474.9	6059.9	11829.7	17090.8	17378.3	15473.7	10772.0
62.5°	1373.8	1369.9	1380.3	1714.7	2985.7	7600.2	15019.7	16683.6	15423.0	10687.4
65°	1181.3	1167.0	1127.9	1203.4	1546.8	3476.2	11604.6	14609.8	15036.6	10475.4
67.5°	1021.3	1022.6	1023.9	1000.4	1104.5	1604.1	7091.6	11508.3	13649.7	9471.0
70°	845.6	857.3	862.5	862.5	900.3	1052.5	3027.3	7887.8	10766.8	7425.9
72.5°	770.2	745.5	748.1	735.0	735.0	801.4	1219.0	4471.4	6783.2	4177.4
75°	628.4	644.0	646.6	637.5	607.6	611.5	723.3	1876.0	2902.5	1732.9
77.5°	542.5	542.5	547.7	541.2	517.8	457.9	482.7	727.2	987.4	710.3
80°	435.8	434.5	456.6	469.6	433.2	338.3	308.3	402.0	438.4	312.2
82.5°	212.1	225.1	313.5	357.8	329.1	244.6	188.6	249.8	234.2	137.9
85°	123.6	117.1	140.5	199.0	188.6	135.3	91.1	130.1	122.3	70.3
87.5°	39.0	36.4	28.6	67.7	54.6	37.7	24.7	37.7	33.8	15.6
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°
6305.8	0°	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8
6326.6	2.5°	6234.2	6080.7	5928.5	5789.3	5704.7	5650.1	5595.5	5534.3	5510.9	5475.8
6343.5	5°	6171.8	5875.2	5611.1	5383.4	5176.5	5013.9	4850.0	4717.3	4657.5	4697.8
6396.9	7.5°	6135.4	5706.0	5298.8	4881.2	4479.2	4157.9	3878.2	3681.7	3593.3	3615.4
6448.9	10°	6102.8	5514.8	4894.2	4234.6	3657.0	3258.9	2972.7	2823.1	2767.2	2778.9
6519.1	12.5°	6072.9	5300.1	4406.4	3538.6	2924.6	2661.8	2579.8	2581.1	2591.5	2599.3
6631.0	15°	6067.7	5041.2	3861.3	2929.8	2529.1	2512.2	2600.6	2656.6	2686.5	2695.6
6724.7	17.5°	6059.9	4731.6	3305.8	2514.8	2432.8	2547.3	2629.3	2665.7	2689.1	2690.4
6815.8	20°	6028.7	4338.7	2793.2	2317.0	2412.0	2510.9	2561.6	2590.2	2609.7	2616.2
6884.7	22.5°	5932.4	3901.6	2393.8	2228.6	2328.7	2408.1	2467.9	2500.5	2512.2	2520.0
6897.7	25°	5759.4	3412.4	2118.0	2144.0	2212.9	2313.1	2361.3	2367.8	2363.9	2375.6
6865.2	27.5°	5533.0	2888.1	1946.2	2029.5	2118.0	2203.8	2229.9	2226.0	2218.1	2231.2
6809.3	30°	5259.8	2417.2	1837.0	1900.7	2021.7	2099.8	2123.2	2114.1	2098.5	2112.8
6780.6	32.5°	4971.0	2032.1	1747.2	1810.9	1942.3	2019.1	2042.5	2033.4	2021.7	2033.4
6813.2	35°	4701.7	1762.8	1663.9	1751.1	1879.9	1955.4	1985.3	1986.6	1986.6	2000.9
6899.0	37.5°	4454.5	1605.4	1595.0	1713.4	1837.0	1904.6	1947.5	1950.1	1894.2	1898.1
7044.7	40°	4225.5	1539.0	1563.8	1688.7	1795.3	1860.4	1863.0	1717.3	1614.5	1611.9
7211.3	42.5°	4038.2	1526.0	1572.9	1686.1	1765.4	1768.0	1584.6	1471.4	1442.8	1444.1
7364.8	45°	3862.6	1522.1	1593.7	1686.1	1721.2	1527.3	1403.7	1373.8	1376.4	1386.8
7433.7	47.5°	3666.1	1506.5	1597.6	1662.6	1593.7	1358.2	1321.8	1308.8	1303.6	1306.2
7418.1	50°	3451.5	1450.6	1548.1	1615.8	1375.1	1285.4	1239.8	1235.9	1242.4	1246.3
7330.9	52.5°	3225.1	1359.5	1463.6	1531.2	1274.9	1221.6	1170.9	1180.0	1208.6	1217.7
7239.9	55°	3076.8	1252.8	1351.7	1362.1	1204.7	1161.8	1118.8	1139.6	1193.0	1209.9
7185.2	57.5°	3037.8	1139.6	1224.2	1212.5	1114.9	1109.7	1083.7	1101.9	1169.6	1194.3
7182.6	60°	3026.0	1038.2	1099.3	1090.2	1027.8	1052.5	1046.0	1055.1	1078.5	1086.3
7156.6	62.5°	2935.0	957.5	987.4	974.4	949.7	992.6	1008.2	988.7	1006.9	1016.1
6978.4	65°	2703.4	892.5	878.2	869.0	879.5	918.5	949.7	910.7	927.6	953.6
6291.5	67.5°	2320.9	804.0	765.0	775.4	807.9	828.7	869.0	824.8	839.1	883.4
5067.3	70°	1877.3	692.1	657.0	686.9	718.1	761.1	767.6	737.6	771.5	820.9
3092.4	72.5°	1328.3	578.9	554.2	615.4	625.8	681.7	667.4	653.1	699.9	716.8
1528.6	75°	921.1	467.0	452.7	499.6	537.3	585.4	575.0	591.9	690.8	698.6
763.7	77.5°	582.8	363.0	353.9	383.8	435.8	489.2	506.1	698.6	1180.0	1226.8
396.8	80°	338.3	270.6	260.2	283.6	329.1	378.6	487.9	857.3	778.0	768.9
178.2	82.5°	188.6	186.0	173.0	179.5	219.9	273.2	689.5	603.6	490.5	506.1
71.6	85°	88.5	109.3	93.7	89.8	123.6	320.0	460.5	344.8	229.0	223.8
15.6	87.5°	23.4	20.8	20.8	23.4	52.0	275.8	183.4	147.0	87.2	84.6
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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