

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: P949978

Luminaire Tested: **GALN-SB4C-827-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949978  
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-SB4C-827-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

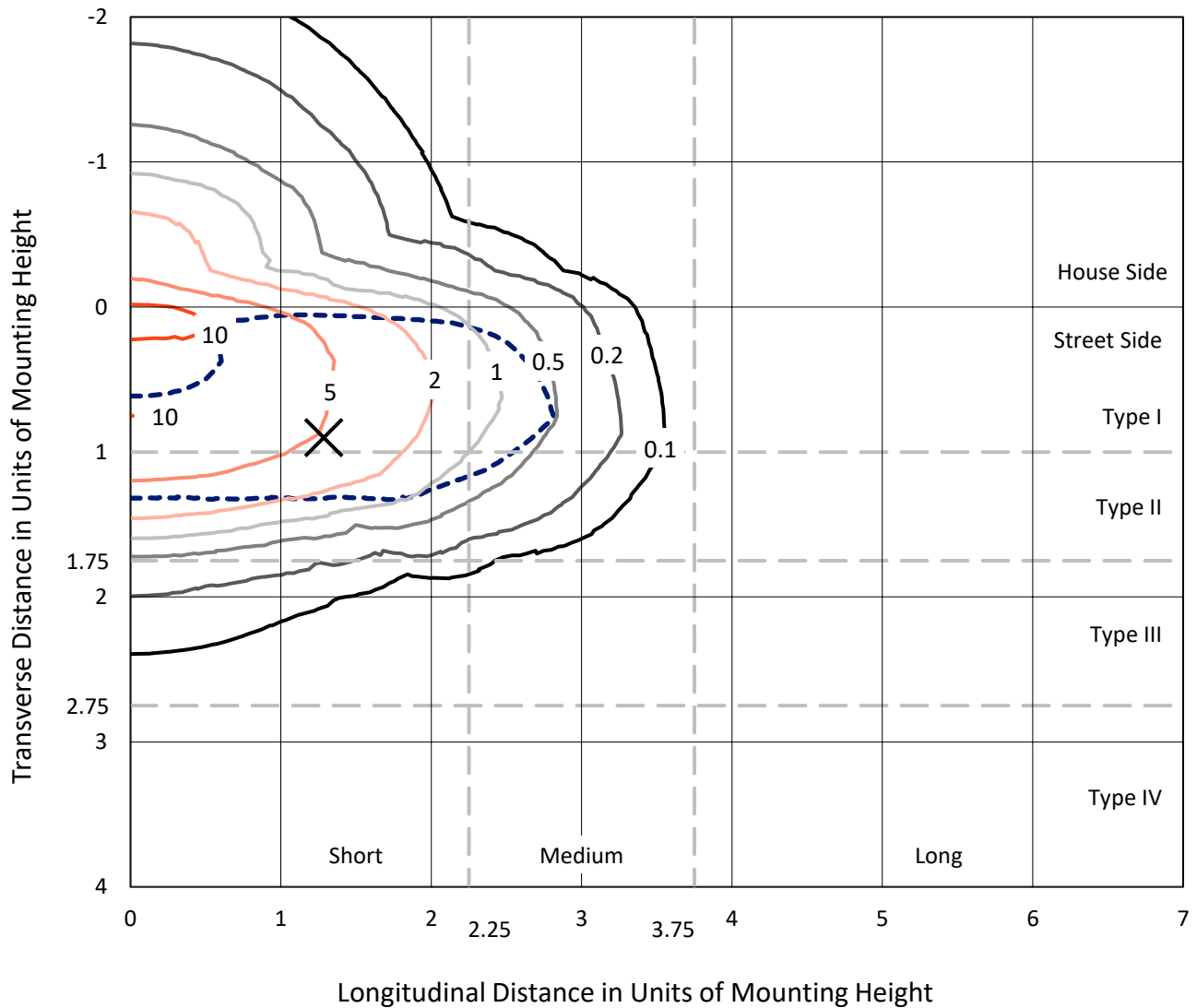
Lumens per Lamp: N/A  
Luminaire Lumens: 26544 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

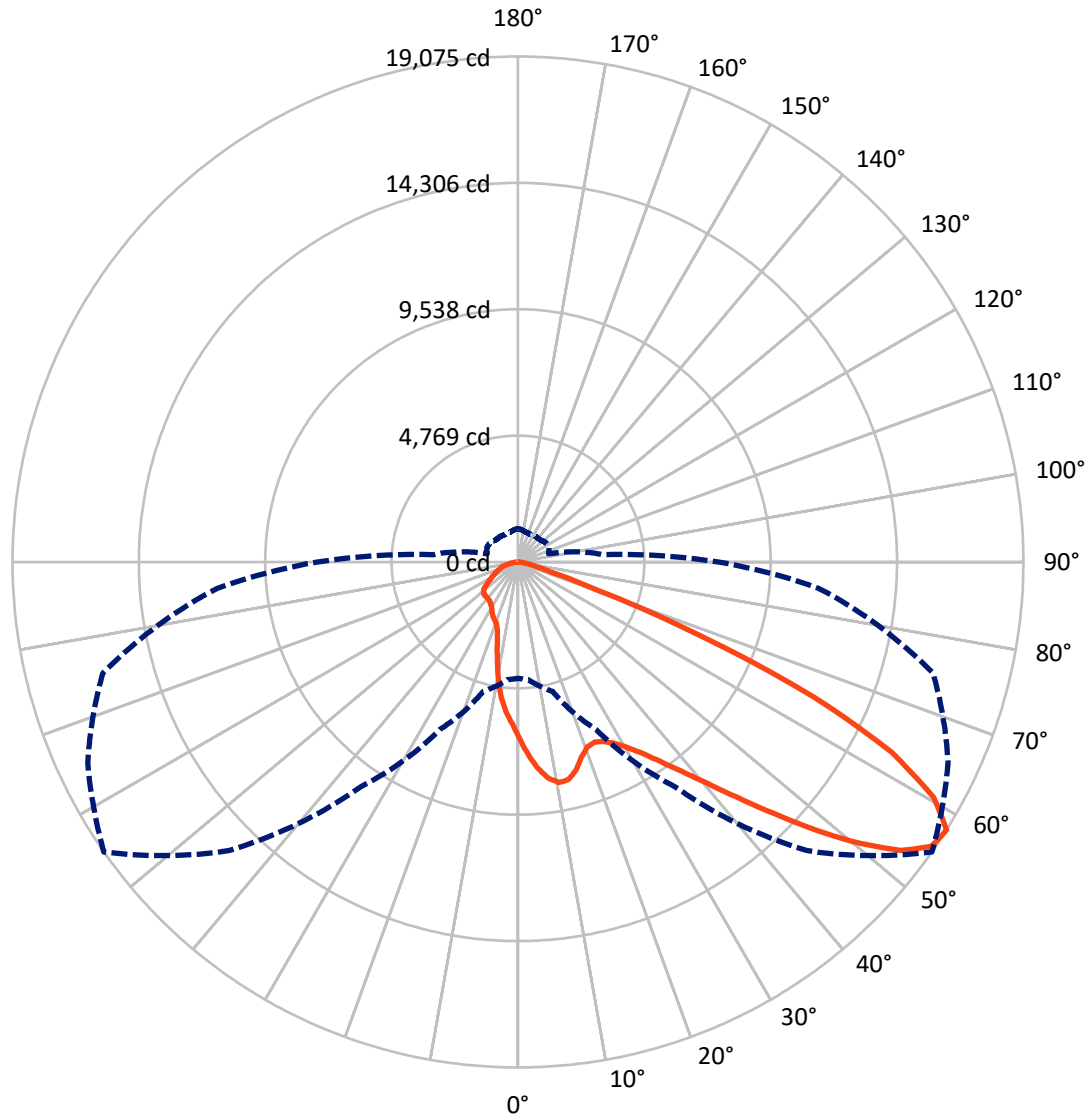
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	4803.0	0.0	4803.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	21741.0	0.0	21741.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	26544.0	0.0	26544.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	617.2	2.3
10°-20°	1557.8	5.9
20°-30°	2485.8	9.4
30°-40°	3935.6	14.8
40°-50°	6023.9	22.7
50°-60°	6452.1	24.3
60°-70°	4059.1	15.3
70°-80°	1200.3	4.5
80°-90°	212.2	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°	26544.0	100.0
0°-180°	26544.0	100.0

**Coefficient of Utilization**



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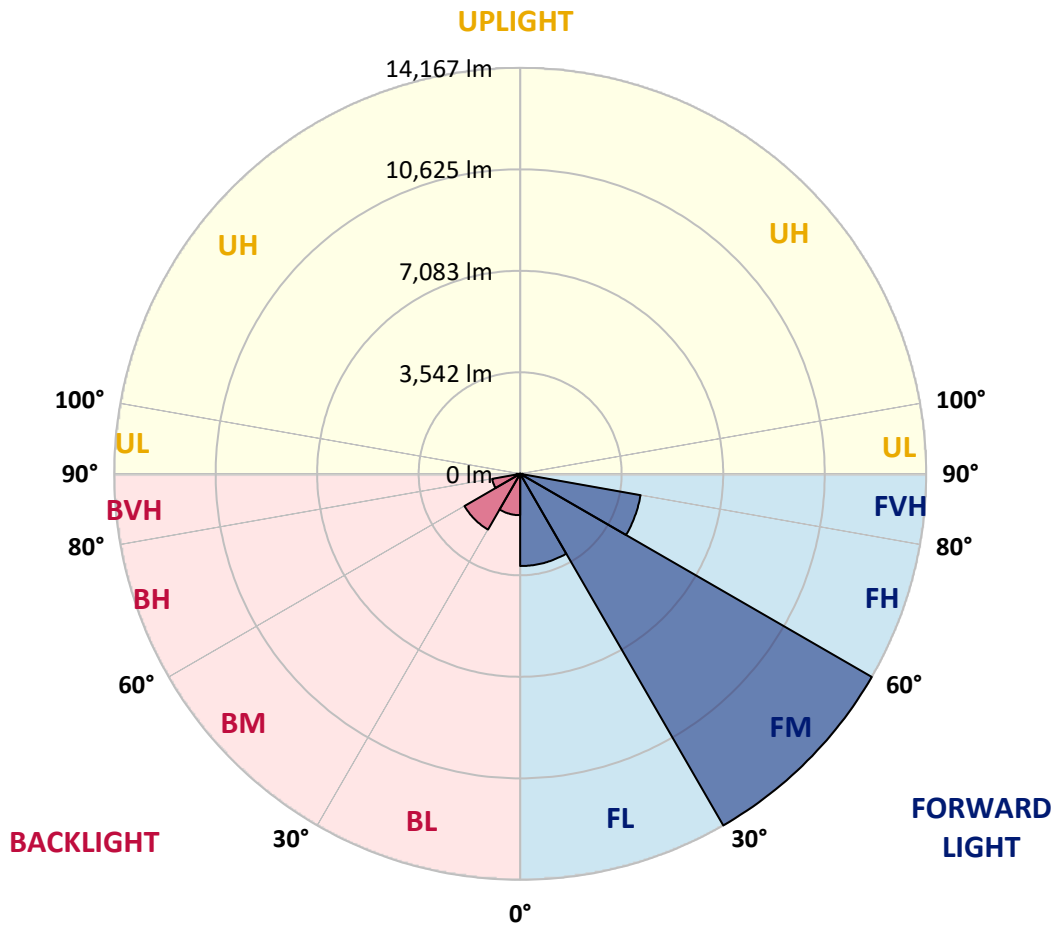
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3217.1	12.1			
FM (30°-60°)	14166.7	53.4			
FH (60°-80°)	4267.5	16.1			G2/5000
FVH (80°-90°)	89.7	0.3			G1/100
BL (0°-30°)	1443.6	5.4	B3/2500		
BM (30°-60°)	2244.9	8.5	B2/2500		
BH (60°-80°)	991.9	3.7	B2/1000		G2/1000
BVH (80°-90°)	122.6	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°	6651.1	6651.1	6651.1	6651.1	6651.1	6651.1	6651.1	6651.1	6651.1	6651.1
2.5°	7630.8	7625.3	7655.5	7552.6	7482.6	7387.9	7263.1	7103.9	6932.4	6751.2
5°	8318.3	8270.3	8301.8	8225.0	8148.1	8005.4	7820.2	7560.8	7243.9	6883.0
7.5°	8209.9	8177.0	8257.9	8326.5	8384.2	8366.3	8230.5	7958.8	7549.9	7025.7
10°	7335.8	7298.7	7412.6	7650.0	7998.6	8301.8	8466.5	8297.7	7862.7	7182.1
12.5°	6564.6	6546.8	6622.2	6814.4	7201.3	7783.1	8436.3	8594.1	8187.9	7367.4
15°	6235.3	6213.3	6261.4	6358.8	6605.8	7147.8	8161.9	8797.2	8507.7	7581.4
17.5°	6162.6	6137.9	6158.4	6209.2	6368.4	6781.4	7747.5	8897.4	8841.1	7820.2
20°	6297.0	6276.5	6279.2	6276.5	6387.6	6715.6	7459.3	8858.9	9132.0	8039.7
22.5°	6622.2	6587.9	6589.3	6516.6	6577.0	6830.8	7383.8	8756.0	9391.4	8231.8
25°	7151.9	7090.2	7102.5	6917.3	6900.8	7088.8	7501.8	8676.4	9649.3	8385.5
27.5°	7876.4	7806.5	7769.4	7493.6	7361.9	7455.2	7742.0	8703.9	9893.6	8518.6
30°	8782.1	8697.0	8621.5	8230.5	7991.7	7957.4	8115.2	8885.0	10181.7	8658.6
32.5°	9892.2	9793.4	9656.2	9137.5	8801.3	8621.5	8598.2	9207.5	10519.3	8837.0
35°	11213.6	11084.7	10889.8	10218.8	9793.4	9425.7	9234.9	9672.7	10981.7	9105.9
37.5°	12574.9	12429.4	12251.0	11452.4	10929.6	10387.6	10011.6	10303.9	11597.9	9470.9
40°	13830.4	13667.1	13501.1	12790.3	12229.1	11575.9	10962.5	11102.5	12351.2	9907.3
42.5°	14571.4	14450.7	14387.5	14003.3	13569.7	12906.9	12145.4	12049.3	13197.8	10409.5
45°	14538.5	14489.1	14683.9	14843.1	14740.2	14372.4	13531.3	13096.3	14047.2	10844.5
47.5°	13761.8	13794.8	14229.7	15124.4	15518.2	15710.3	15109.3	14124.1	14785.5	11169.7
50°	11648.6	11676.1	12683.3	14612.6	15718.6	16801.2	16675.0	15127.2	15357.7	11368.7
52.5°	9975.9	9993.7	10426.0	13094.9	15057.2	17350.1	18085.6	16072.6	15776.2	11423.6
55°	7514.2	7575.9	8060.3	10273.7	13336.4	16915.1	18944.6	17046.9	16041.0	11429.1
57.5°	4389.7	4456.9	5055.2	6973.5	10365.6	15398.9	19075.0	17911.4	16220.8	11385.2
60°	2150.2	2179.1	2439.8	3665.2	6391.7	12477.4	18026.6	18329.9	16321.0	11361.8
62.5°	1449.0	1444.9	1455.9	1808.6	3149.2	8016.4	15842.1	17597.1	16267.5	11272.6
65°	1246.0	1230.9	1189.7	1269.3	1631.5	3666.5	12240.0	15409.8	15859.9	11049.0
67.5°	1077.2	1078.6	1079.9	1055.2	1165.0	1691.9	7479.9	12138.5	14397.1	9989.6
70°	891.9	904.3	909.8	909.8	949.6	1110.1	3193.1	8319.7	11356.3	7832.5
72.5°	812.3	786.3	789.0	775.3	775.3	845.3	1285.8	4716.3	7154.7	4406.1
75°	662.8	679.2	682.0	672.4	640.8	644.9	762.9	1978.7	3061.4	1827.8
77.5°	572.2	572.2	577.7	570.8	546.1	483.0	509.1	767.1	1041.5	749.2
80°	459.7	458.3	481.6	495.4	456.9	356.8	325.2	424.0	462.4	329.3
82.5°	223.7	237.4	330.7	377.4	347.2	258.0	199.0	263.5	247.0	145.5
85°	130.4	123.5	148.2	209.9	199.0	142.7	96.1	137.2	129.0	74.1
87.5°	41.2	38.4	30.2	71.4	57.6	39.8	26.1	39.8	35.7	16.5
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°
6651.1	0°	6651.1	6651.1	6651.1	6651.1	6651.1	6651.1	6651.1	6651.1	6651.1	6651.1
6673.0	2.5°	6575.6	6413.7	6253.1	6106.3	6017.1	5959.5	5901.8	5837.3	5812.6	5775.6
6690.9	5°	6509.7	6196.9	5918.3	5678.2	5460.0	5288.5	5115.6	4975.6	4912.5	4955.0
6747.1	7.5°	6471.3	6018.5	5589.0	5148.5	4724.5	4385.6	4090.5	3883.3	3790.0	3813.4
6802.0	10°	6437.0	5816.8	5162.2	4466.5	3857.3	3437.4	3135.5	2977.7	2918.7	2931.0
6876.1	12.5°	6405.4	5590.4	4647.6	3732.4	3084.7	2807.5	2721.1	2722.4	2733.4	2741.7
6994.1	15°	6400.0	5317.3	4072.7	3090.2	2667.6	2649.7	2743.0	2802.0	2833.6	2843.2
7092.9	17.5°	6391.7	4990.7	3486.8	2652.5	2566.0	2686.8	2773.2	2811.6	2836.3	2837.7
7189.0	20°	6358.8	4576.3	2946.1	2443.9	2544.1	2648.4	2701.9	2732.1	2752.6	2759.5
7261.7	22.5°	6257.2	4115.2	2524.9	2350.6	2456.2	2539.9	2603.1	2637.4	2649.7	2658.0
7275.4	25°	6074.7	3599.3	2233.9	2261.4	2334.1	2439.8	2490.5	2497.4	2493.3	2505.6
7241.1	27.5°	5836.0	3046.3	2052.8	2140.6	2233.9	2324.5	2352.0	2347.8	2339.6	2353.3
7182.1	30°	5547.8	2549.6	1937.5	2004.8	2132.4	2214.7	2239.4	2229.8	2213.4	2228.5
7151.9	32.5°	5243.2	2143.4	1842.9	1910.1	2048.7	2129.7	2154.4	2144.8	2132.4	2144.8
7186.2	35°	4959.1	1859.3	1755.0	1847.0	1982.8	2062.4	2094.0	2095.4	2095.4	2110.4
7276.8	37.5°	4698.4	1693.3	1682.3	1807.2	1937.5	2008.9	2054.2	2056.9	1997.9	2002.0
7430.5	40°	4456.9	1623.3	1649.4	1781.1	1893.6	1962.2	1965.0	1811.3	1702.9	1700.2
7606.1	42.5°	4259.3	1609.6	1659.0	1778.4	1862.1	1864.8	1671.3	1552.0	1521.8	1523.1
7768.0	45°	4074.1	1605.5	1680.9	1778.4	1815.4	1611.0	1480.6	1449.0	1451.8	1462.8
7840.8	47.5°	3866.9	1589.0	1685.1	1753.7	1680.9	1432.6	1394.2	1380.4	1374.9	1377.7
7824.3	50°	3640.5	1530.0	1632.9	1704.3	1450.4	1355.7	1307.7	1303.6	1310.5	1314.6
7732.4	52.5°	3401.7	1434.0	1543.7	1615.1	1344.8	1288.5	1235.0	1244.6	1274.8	1284.4
7636.3	55°	3245.3	1321.4	1425.7	1436.7	1270.7	1225.4	1180.1	1202.0	1258.3	1276.1
7578.7	57.5°	3204.1	1202.0	1291.2	1278.9	1176.0	1170.5	1143.0	1162.3	1233.6	1259.7
7575.9	60°	3191.7	1095.0	1159.5	1149.9	1084.0	1110.1	1103.3	1112.9	1137.6	1145.8
7548.5	62.5°	3095.7	1009.9	1041.5	1027.8	1001.7	1047.0	1063.5	1042.9	1062.1	1071.7
7360.5	65°	2851.4	941.3	926.2	916.6	927.6	968.8	1001.7	960.5	978.4	1005.8
6636.0	67.5°	2448.0	848.0	806.9	817.8	852.1	874.1	916.6	870.0	885.1	931.7
5344.7	70°	1980.1	730.0	693.0	724.5	757.5	802.7	809.6	778.0	813.7	865.9
3261.7	72.5°	1401.0	610.6	584.6	649.1	660.0	719.0	703.9	688.8	738.2	756.1
1612.3	75°	971.5	492.6	477.5	526.9	566.7	617.5	606.5	624.4	728.6	736.9
805.5	77.5°	614.7	382.8	373.2	404.8	459.7	515.9	533.8	736.9	1244.6	1294.0
418.5	80°	356.8	285.4	274.4	299.1	347.2	399.3	514.6	904.3	820.6	811.0
188.0	82.5°	199.0	196.2	182.5	189.4	231.9	288.2	727.3	636.7	517.3	533.8
75.5	85°	93.3	115.3	98.8	94.7	130.4	337.6	485.8	363.6	241.5	236.0
16.5	87.5°	24.7	22.0	22.0	24.7	54.9	290.9	193.5	155.1	91.9	89.2
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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