

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: P946870

Luminaire Tested: **GALN-SB2B-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946870
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-SB2B-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6971 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

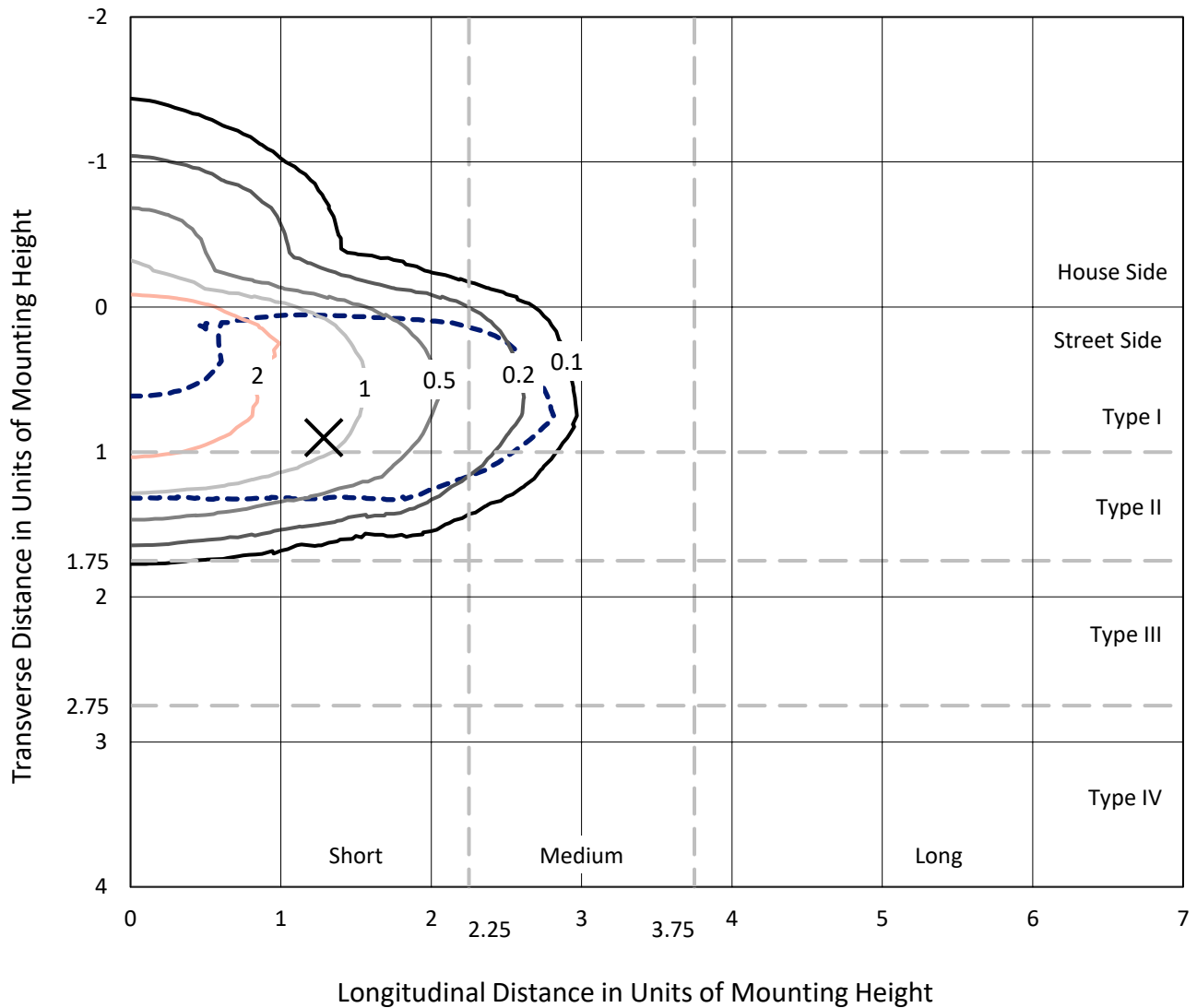
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

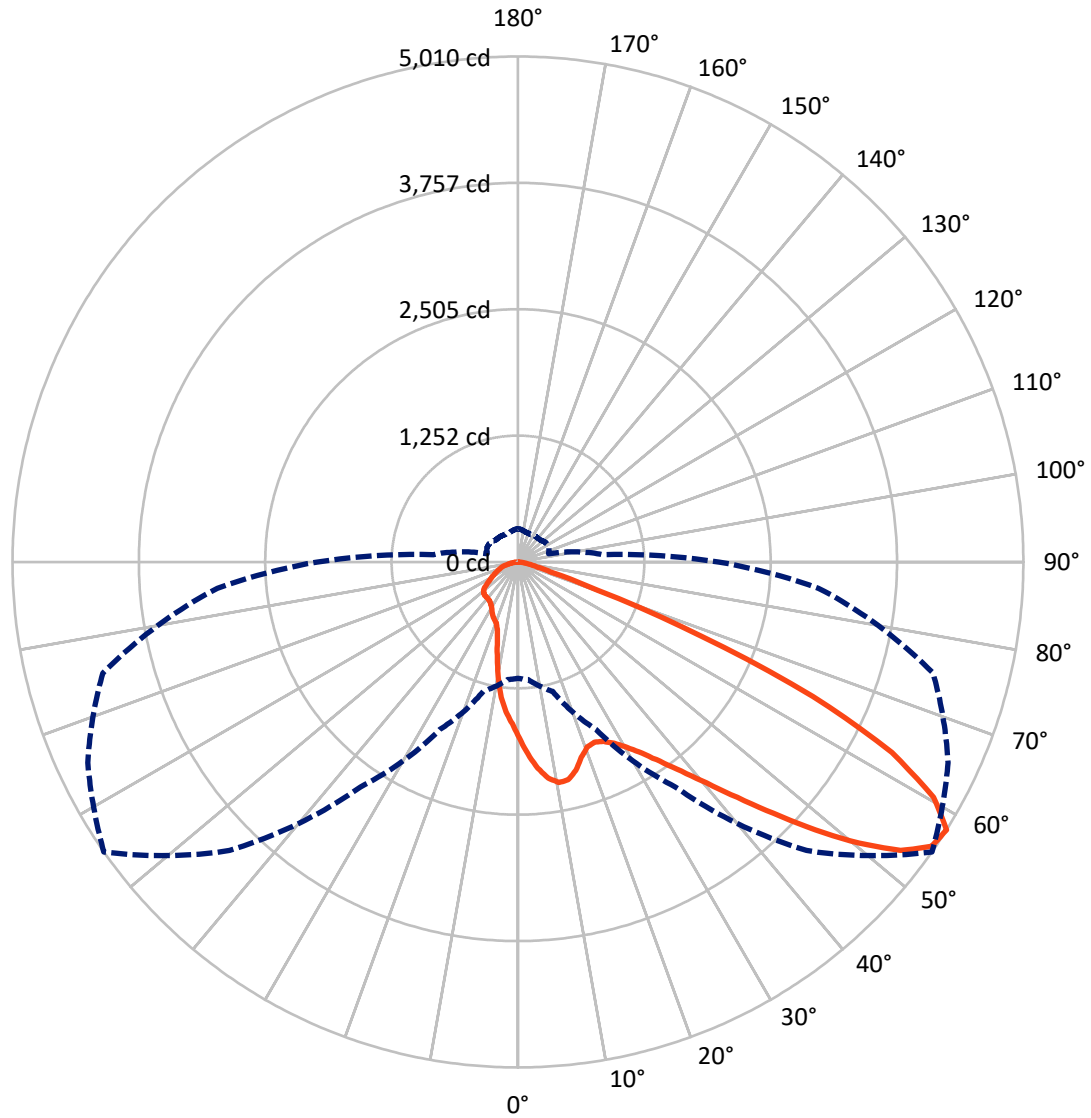
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	1261.4	0.0	1261.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5709.6	0.0	5709.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	6971.0	0.0	6971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	2.3
10°-20°	409.1	5.9
20°-30°	652.8	9.4
30°-40°	1033.6	14.8
40°-50°	1582.0	22.7
50°-60°	1694.5	24.3
60°-70°	1066.0	15.3
70°-80°	315.2	4.5
80°-90°	55.7	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°	6971.0	100.0
0°-180°	6971.0	100.0

Coefficient of Utilization



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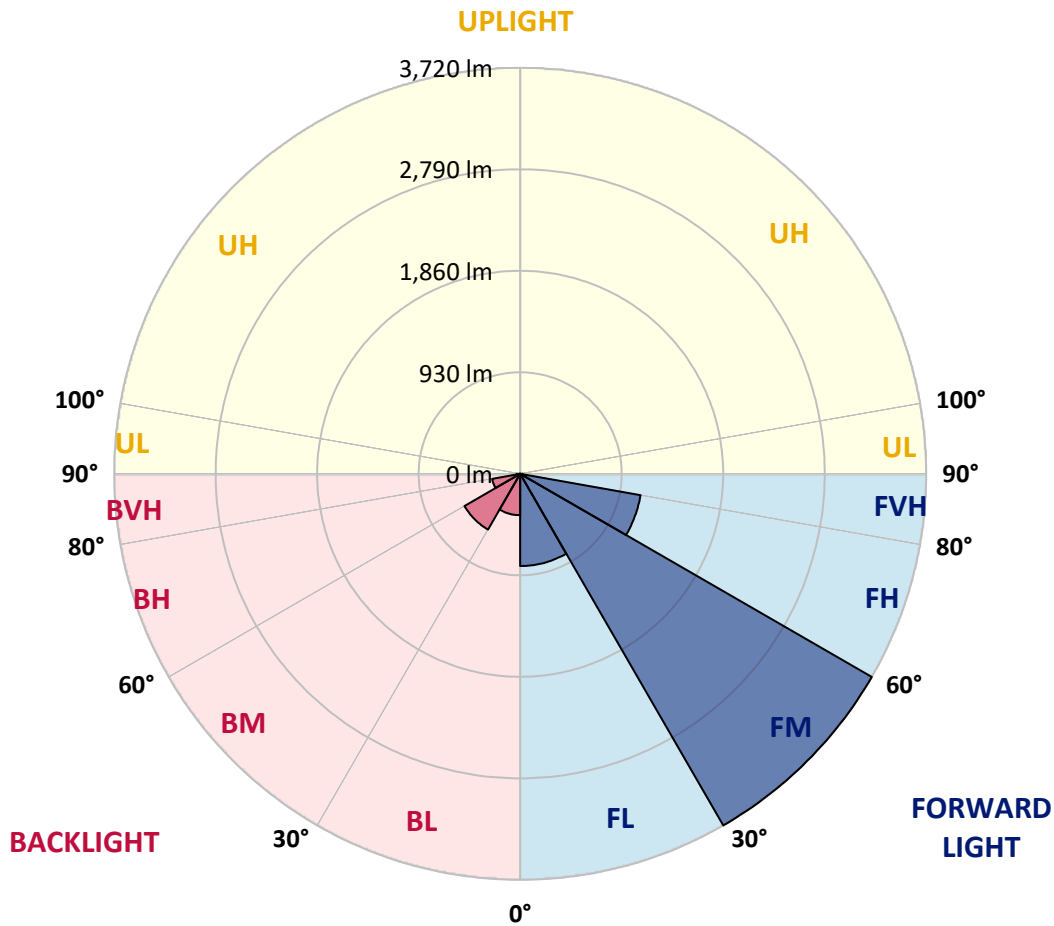
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	844.9	12.1			
FM (30°-60°)	3720.5	53.4			
FH (60°-80°)	1120.7	16.1			G1/1800
FVH (80°-90°)	23.5	0.3			G1/100
BL (0°-30°)	379.1	5.4	B1/500		
BM (30°-60°)	589.6	8.5	B1/1000		
BH (60°-80°)	260.5	3.7	B1/500		G1/500
BVH (80°-90°)	32.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1746.7	1746.7	1746.7	1746.7	1746.7	1746.7	1746.7	1746.7	1746.7	1746.7
2.5°	2004.0	2002.6	2010.5	1983.5	1965.1	1940.2	1907.4	1865.6	1820.6	1773.0
5°	2184.6	2171.9	2180.2	2160.0	2139.9	2102.4	2053.7	1985.6	1902.4	1807.6
7.5°	2156.1	2147.4	2168.7	2186.7	2201.9	2197.2	2161.5	2090.1	1982.7	1845.1
10°	1926.5	1916.8	1946.7	2009.1	2100.6	2180.2	2223.5	2179.1	2064.9	1886.2
12.5°	1724.0	1719.3	1739.1	1789.6	1891.2	2044.0	2215.5	2257.0	2150.3	1934.8
15°	1637.5	1631.7	1644.4	1669.9	1734.8	1877.2	2143.5	2310.3	2234.3	1991.0
17.5°	1618.4	1611.9	1617.3	1630.7	1672.5	1780.9	2034.6	2336.6	2321.9	2053.7
20°	1653.7	1648.3	1649.0	1648.3	1677.5	1763.6	1959.0	2326.5	2398.3	2111.4
22.5°	1739.1	1730.1	1730.5	1711.4	1727.2	1793.9	1939.1	2299.5	2466.4	2161.9
25°	1878.2	1862.0	1865.3	1816.6	1812.3	1861.7	1970.1	2278.6	2534.1	2202.2
27.5°	2068.5	2050.1	2040.4	1968.0	1933.4	1957.9	2033.2	2285.8	2598.3	2237.2
30°	2306.4	2284.0	2264.2	2161.5	2098.8	2089.8	2131.2	2333.4	2673.9	2273.9
32.5°	2597.9	2572.0	2535.9	2399.7	2311.4	2264.2	2258.1	2418.1	2762.6	2320.8
35°	2944.9	2911.1	2859.9	2683.7	2572.0	2475.4	2425.3	2540.2	2884.0	2391.4
37.5°	3302.4	3264.2	3217.4	3007.6	2870.3	2728.0	2629.2	2706.0	3045.8	2487.3
40°	3632.2	3589.3	3545.7	3359.0	3211.6	3040.1	2879.0	2915.7	3243.7	2601.9
42.5°	3826.8	3795.0	3778.5	3677.6	3563.7	3389.6	3189.6	3164.4	3466.0	2733.8
45°	3818.1	3805.1	3856.3	3898.1	3871.1	3774.5	3553.6	3439.4	3689.1	2848.0
47.5°	3614.1	3622.8	3737.0	3972.0	4075.4	4125.9	3968.0	3709.3	3883.0	2933.4
50°	3059.2	3066.4	3330.9	3837.6	4128.0	4412.4	4379.2	3972.7	4033.2	2985.7
52.5°	2619.9	2624.6	2738.1	3439.0	3954.3	4556.5	4749.7	4221.0	4143.2	3000.1
55°	1973.4	1989.6	2116.8	2698.1	3502.4	4442.3	4975.2	4476.9	4212.7	3001.5
57.5°	1152.8	1170.5	1327.6	1831.4	2722.2	4044.1	5009.5	4703.9	4259.9	2990.0
60°	564.7	572.3	640.7	962.5	1678.6	3276.8	4734.2	4813.8	4286.2	2983.9
62.5°	380.5	379.5	382.4	475.0	827.0	2105.3	4160.5	4621.4	4272.2	2960.4
65°	327.2	323.3	312.4	333.3	428.5	962.9	3214.5	4046.9	4165.1	2901.7
67.5°	282.9	283.2	283.6	277.1	306.0	444.3	1964.4	3187.8	3781.0	2623.5
70°	234.2	237.5	238.9	238.9	249.4	291.5	838.6	2184.9	2982.4	2057.0
72.5°	213.3	206.5	207.2	203.6	203.6	222.0	337.7	1238.6	1879.0	1157.1
75°	174.1	178.4	179.1	176.6	168.3	169.4	200.4	519.7	804.0	480.0
77.5°	150.3	150.3	151.7	149.9	143.4	126.8	133.7	201.4	273.5	196.8
80°	120.7	120.4	126.5	130.1	120.0	93.7	85.4	111.4	121.4	86.5
82.5°	58.7	62.3	86.8	99.1	91.2	67.7	52.3	69.2	64.9	38.2
85°	34.2	32.4	38.9	55.1	52.3	37.5	25.2	36.0	33.9	19.5
87.5°	10.8	10.1	7.9	18.7	15.1	10.5	6.8	10.5	9.4	4.3
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°
1746.7	0°	1746.7	1746.7	1746.7	1746.7	1746.7	1746.7	1746.7	1746.7	1746.7	1746.7
1752.5	2.5°	1726.9	1684.4	1642.2	1603.6	1580.2	1565.1	1549.9	1533.0	1526.5	1516.8
1757.2	5°	1709.6	1627.4	1554.3	1491.2	1433.9	1388.9	1343.5	1306.7	1290.1	1301.3
1771.9	7.5°	1699.5	1580.6	1467.8	1352.1	1240.7	1151.7	1074.3	1019.8	995.3	1001.5
1786.3	10°	1690.5	1527.6	1355.7	1173.0	1013.0	902.7	823.4	782.0	766.5	769.7
1805.8	12.5°	1682.2	1468.1	1220.6	980.2	810.1	737.3	714.6	715.0	717.9	720.0
1836.8	15°	1680.8	1396.4	1069.6	811.5	700.6	695.9	720.4	735.9	744.2	746.7
1862.7	17.5°	1678.6	1310.7	915.7	696.6	673.9	705.6	728.3	738.4	744.9	745.2
1888.0	20°	1669.9	1201.8	773.7	641.8	668.1	695.5	709.6	717.5	722.9	724.7
1907.1	22.5°	1643.3	1080.7	663.1	617.3	645.1	667.0	683.6	692.6	695.9	698.0
1910.7	25°	1595.4	945.2	586.7	593.9	613.0	640.7	654.1	655.9	654.8	658.0
1901.7	27.5°	1532.6	800.0	539.1	562.2	586.7	610.5	617.7	616.6	614.4	618.0
1886.2	30°	1457.0	669.6	508.8	526.5	560.0	581.6	588.1	585.6	581.3	585.2
1878.2	32.5°	1377.0	562.9	484.0	501.6	538.0	559.3	565.8	563.3	560.0	563.3
1887.3	35°	1302.4	488.3	460.9	485.1	520.7	541.6	549.9	550.3	550.3	554.2
1911.0	37.5°	1233.9	444.7	441.8	474.6	508.8	527.6	539.5	540.2	524.7	525.8
1951.4	40°	1170.5	426.3	433.2	467.8	497.3	515.3	516.0	475.7	447.2	446.5
1997.5	42.5°	1118.6	422.7	435.7	467.0	489.0	489.7	438.9	407.6	399.6	400.0
2040.0	45°	1069.9	421.6	441.5	467.0	476.8	423.1	388.8	380.5	381.3	384.2
2059.1	47.5°	1015.5	417.3	442.5	460.6	441.5	376.2	366.1	362.5	361.1	361.8
2054.8	50°	956.1	401.8	428.8	447.6	380.9	356.0	343.4	342.4	344.2	345.2
2030.7	52.5°	893.4	376.6	405.4	424.2	353.2	338.4	324.3	326.9	334.8	337.3
2005.5	55°	852.3	347.0	374.4	377.3	333.7	321.8	309.9	315.7	330.5	335.1
1990.3	57.5°	841.5	315.7	339.1	335.9	308.8	307.4	300.2	305.2	324.0	330.8
1989.6	60°	838.2	287.6	304.5	302.0	284.7	291.5	289.7	292.3	298.7	300.9
1982.4	62.5°	813.0	265.2	273.5	269.9	263.1	275.0	279.3	273.9	278.9	281.4
1933.0	65°	748.8	247.2	243.2	240.7	243.6	254.4	263.1	252.3	256.9	264.2
1742.7	67.5°	642.9	222.7	211.9	214.8	223.8	229.6	240.7	228.5	232.4	244.7
1403.6	70°	520.0	191.7	182.0	190.3	198.9	210.8	212.6	204.3	213.7	227.4
856.6	72.5°	367.9	160.4	153.5	170.5	173.3	188.8	184.9	180.9	193.9	198.6
423.4	75°	255.1	129.4	125.4	138.4	148.8	162.2	159.3	164.0	191.4	193.5
211.5	77.5°	161.4	100.5	98.0	106.3	120.7	135.5	140.2	193.5	326.9	339.8
109.9	80°	93.7	75.0	72.1	78.6	91.2	104.9	135.1	237.5	215.5	213.0
49.4	82.5°	52.3	51.5	47.9	49.7	60.9	75.7	191.0	167.2	135.9	140.2
19.8	85°	24.5	30.3	25.9	24.9	34.2	88.7	127.6	95.5	63.4	62.0
4.3	87.5°	6.5	5.8	5.8	6.5	14.4	76.4	50.8	40.7	24.1	23.4
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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