

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: P946576

Luminaire Tested: **GALN-SB2A-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946576
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-SB2A-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 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: 6611 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

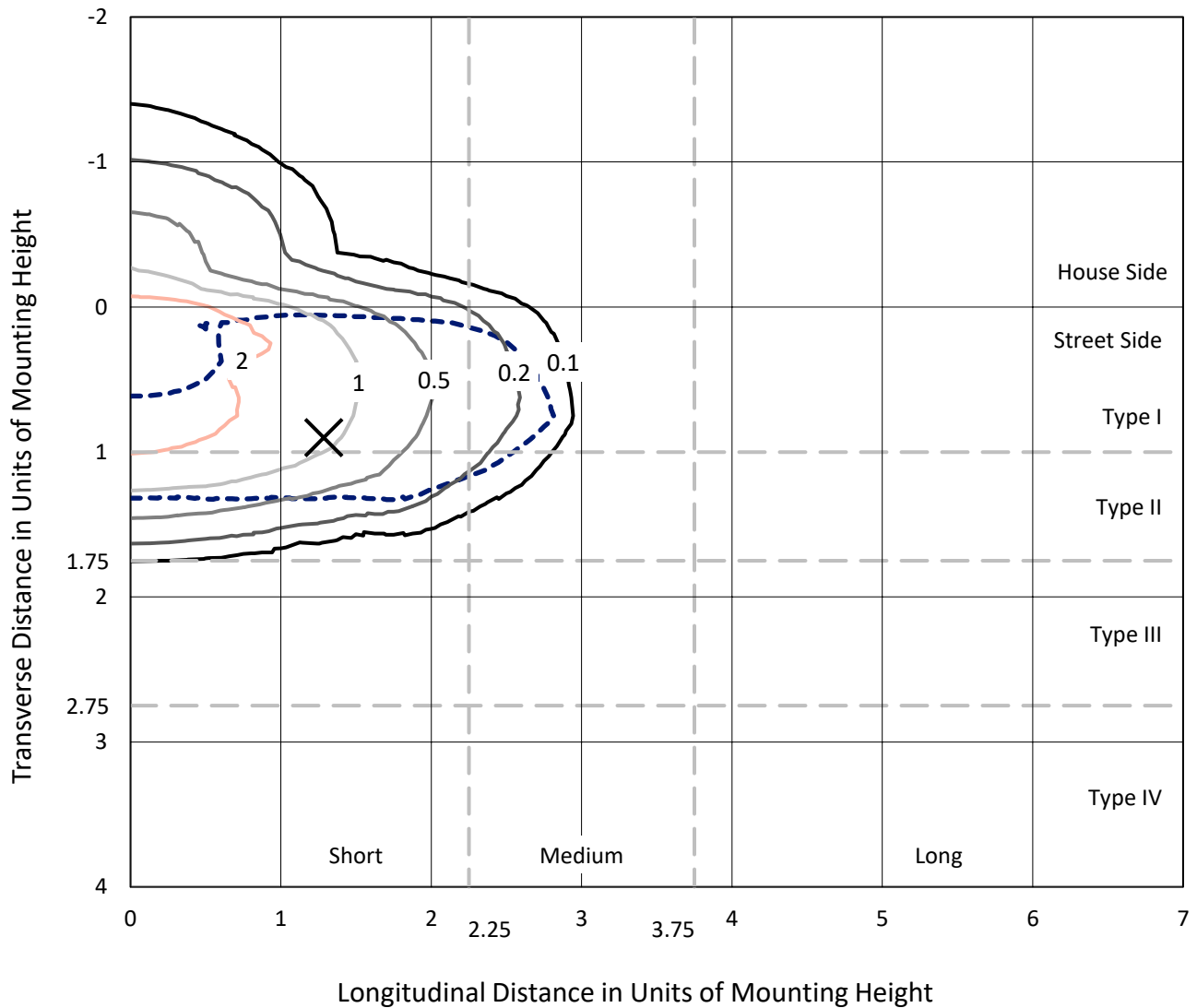
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

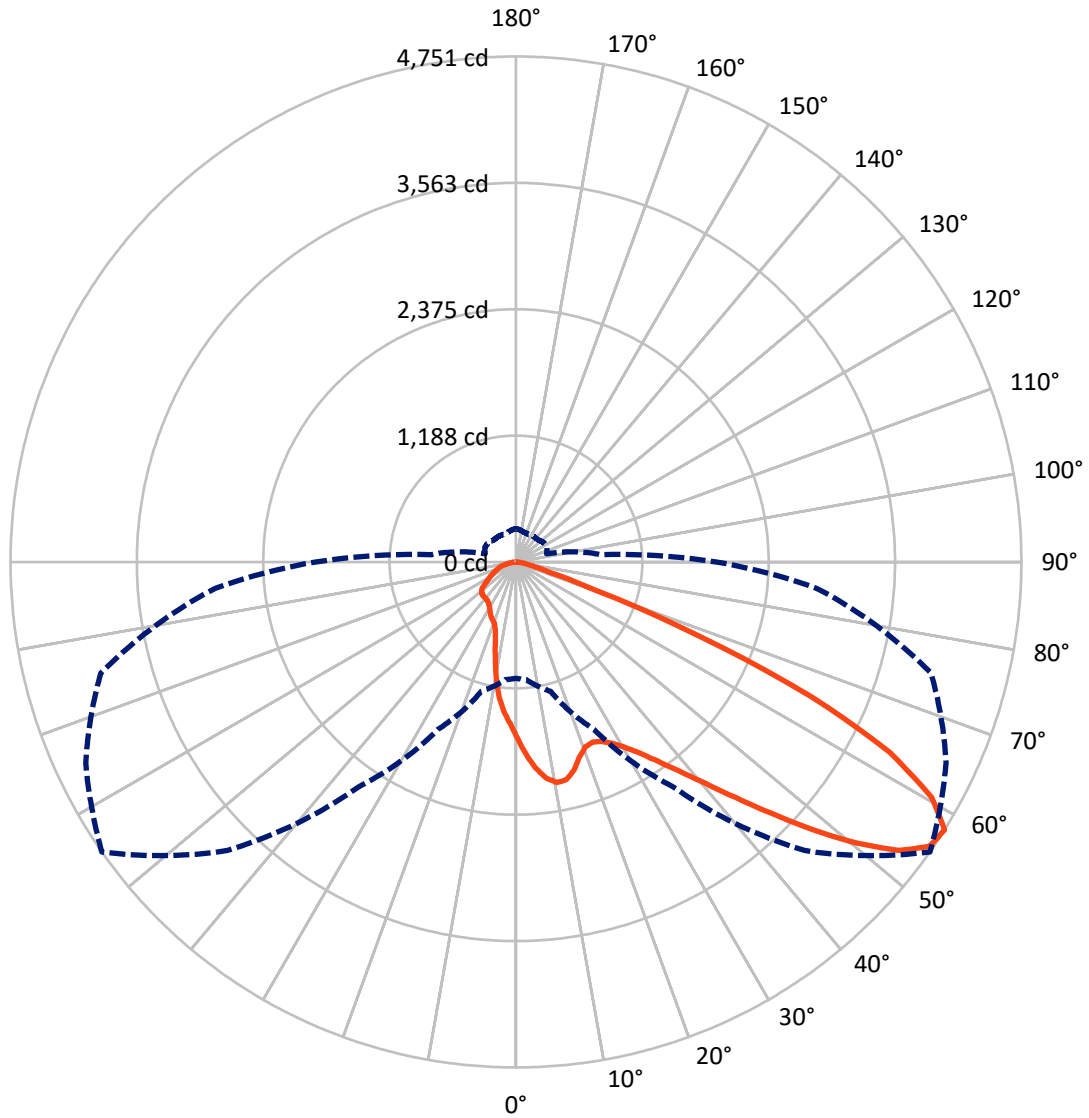
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	1196.2	0.0	1196.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5414.8	0.0	5414.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	6611.0	0.0	6611.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.7	2.3
10°-20°	388.0	5.9
20°-30°	619.1	9.4
30°-40°	980.2	14.8
40°-50°	1500.3	22.7
50°-60°	1607.0	24.3
60°-70°	1010.9	15.3
70°-80°	299.0	4.5
80°-90°	52.9	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°	6611.0	100.0
0°-180°	6611.0	100.0

Coefficient of Utilization



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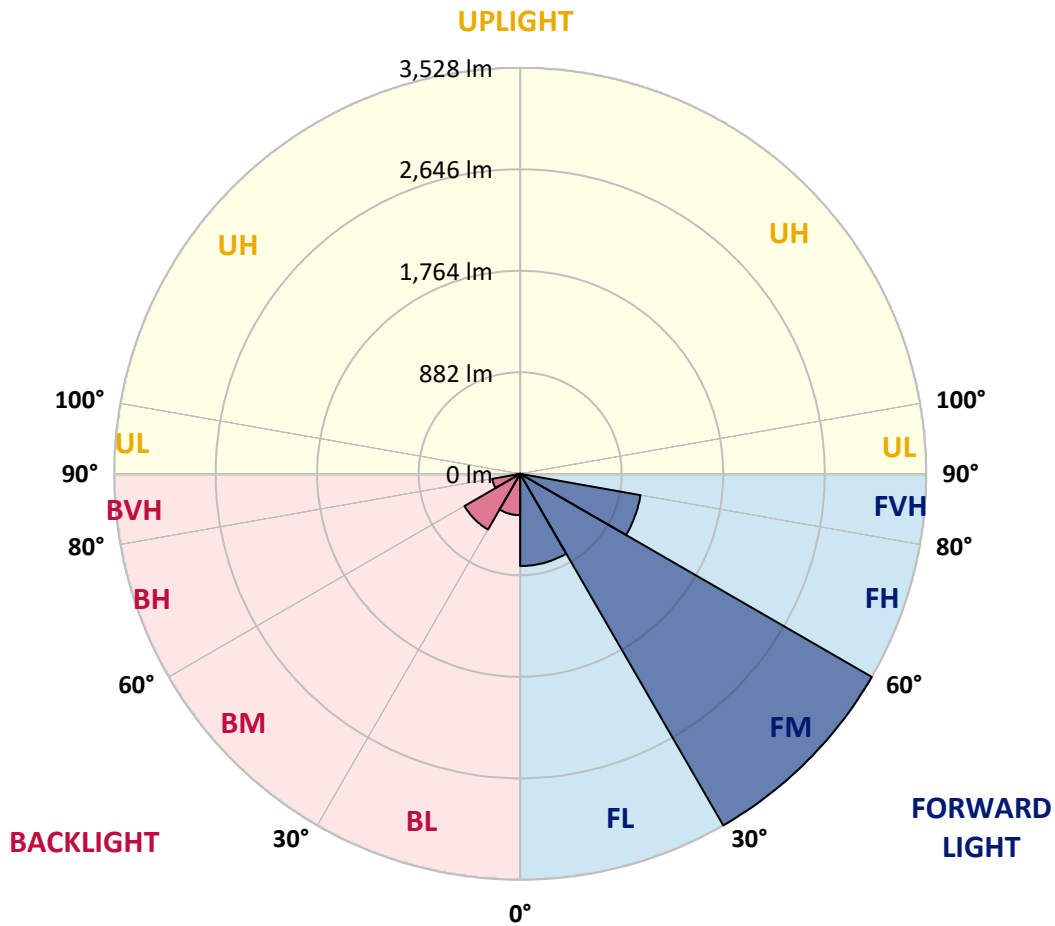
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	801.3	12.1			
FM (30°-60°)	3528.3	53.4			
FH (60°-80°)	1062.8	16.1			G1/1800
FVH (80°-90°)	22.3	0.3			G1/100
BL (0°-30°)	359.5	5.4	B1/500		
BM (30°-60°)	559.1	8.5	B1/1000		
BH (60°-80°)	247.1	3.7	B1/500		G1/500
BVH (80°-90°)	30.5	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°	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5
2.5°	1900.5	1899.2	1906.7	1881.0	1863.6	1840.0	1808.9	1769.3	1726.6	1681.5
5°	2071.7	2059.8	2067.6	2048.5	2029.4	1993.8	1947.7	1883.1	1804.1	1714.3
7.5°	2044.7	2036.5	2056.7	2073.8	2088.1	2083.7	2049.9	1982.2	1880.4	1749.8
10°	1827.0	1817.8	1846.2	1905.3	1992.1	2067.6	2108.6	2066.6	1958.3	1788.8
12.5°	1635.0	1630.5	1649.3	1697.2	1793.5	1938.5	2101.1	2140.4	2039.3	1834.9
15°	1552.9	1547.5	1559.4	1583.7	1645.2	1780.2	2032.8	2191.0	2118.9	1888.2
17.5°	1534.8	1528.7	1533.8	1546.5	1586.1	1689.0	1929.6	2216.0	2201.9	1947.7
20°	1568.3	1563.2	1563.9	1563.2	1590.9	1672.6	1857.8	2206.4	2274.4	2002.4
22.5°	1649.3	1640.8	1641.1	1623.0	1638.0	1701.3	1839.0	2180.8	2339.0	2050.2
25°	1781.2	1765.9	1768.9	1722.8	1718.7	1765.5	1868.4	2160.9	2403.2	2088.5
27.5°	1961.7	1944.3	1935.0	1866.3	1833.5	1856.8	1928.2	2167.8	2464.1	2121.6
30°	2187.3	2166.1	2147.3	2049.9	1990.4	1981.9	2021.2	2212.9	2535.8	2156.5
32.5°	2463.7	2439.1	2405.0	2275.8	2192.0	2147.3	2141.5	2293.2	2619.9	2200.9
35°	2792.8	2760.7	2712.2	2545.1	2439.1	2347.5	2300.0	2409.1	2735.1	2267.9
37.5°	3131.9	3095.6	3051.2	2852.3	2722.1	2587.1	2493.5	2566.3	2888.5	2358.8
40°	3444.6	3403.9	3362.6	3185.5	3045.7	2883.1	2730.3	2765.2	3076.2	2467.5
42.5°	3629.1	3599.1	3583.3	3487.6	3379.6	3214.6	3024.9	3001.0	3287.0	2592.6
45°	3620.9	3608.6	3657.2	3696.8	3671.2	3579.6	3370.1	3261.7	3498.6	2700.9
47.5°	3427.5	3435.7	3544.0	3766.9	3864.9	3912.8	3763.1	3517.7	3682.4	2781.9
50°	2901.2	2908.0	3158.9	3639.4	3914.8	4184.5	4153.0	3767.5	3825.0	2831.5
52.5°	2484.6	2489.0	2596.7	3261.4	3750.1	4321.2	4504.4	4003.0	3929.2	2845.1
55°	1871.5	1886.8	2007.5	2558.7	3321.5	4212.9	4718.3	4245.7	3995.2	2846.5
57.5°	1093.3	1110.0	1259.0	1736.8	2581.6	3835.2	4750.8	4461.0	4039.9	2835.6
60°	535.5	542.7	607.6	912.8	1591.9	3107.6	4489.7	4565.2	4064.9	2829.8
62.5°	360.9	359.9	362.6	450.4	784.3	1996.6	3945.6	4382.7	4051.5	2807.5
65°	310.3	306.6	296.3	316.1	406.4	913.2	3048.5	3837.9	3950.0	2751.8
67.5°	268.3	268.6	269.0	262.8	290.2	421.4	1862.9	3023.2	3585.7	2488.0
70°	222.1	225.2	226.6	226.6	236.5	276.5	795.3	2072.1	2828.4	1950.8
72.5°	202.3	195.8	196.5	193.1	193.1	210.5	320.2	1174.6	1781.9	1097.4
75°	165.1	169.2	169.9	167.5	159.6	160.6	190.0	492.8	762.5	455.2
77.5°	142.5	142.5	143.9	142.2	136.0	120.3	126.8	191.0	259.4	186.6
80°	114.5	114.1	120.0	123.4	113.8	88.9	81.0	105.6	115.2	82.0
82.5°	55.7	59.1	82.4	94.0	86.5	64.3	49.6	65.6	61.5	36.2
85°	32.5	30.8	36.9	52.3	49.6	35.5	23.9	34.2	32.1	18.5
87.5°	10.3	9.6	7.5	17.8	14.4	9.9	6.5	9.9	8.9	4.1
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°
1656.5	0°	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5
1662.0	2.5°	1637.7	1597.4	1557.4	1520.8	1498.6	1484.3	1469.9	1453.8	1447.7	1438.5
1666.4	5°	1621.3	1543.4	1474.0	1414.2	1359.9	1317.1	1274.1	1239.2	1223.5	1234.1
1680.4	7.5°	1611.7	1499.0	1392.0	1282.3	1176.7	1092.3	1018.8	967.2	943.9	949.7
1694.1	10°	1603.2	1448.7	1285.7	1112.4	960.7	856.1	780.9	741.6	726.9	730.0
1712.6	12.5°	1595.3	1392.3	1157.5	929.6	768.3	699.2	677.7	678.0	680.8	682.8
1741.9	15°	1594.0	1324.3	1014.3	769.6	664.4	659.9	683.2	697.9	705.7	708.1
1766.5	17.5°	1591.9	1243.0	868.4	660.6	639.1	669.2	690.7	700.3	706.4	706.8
1790.5	20°	1583.7	1139.8	733.8	608.7	633.6	659.6	672.9	680.4	685.6	687.3
1808.6	22.5°	1558.4	1024.9	628.8	585.4	611.7	632.6	648.3	656.9	659.9	662.0
1812.0	25°	1513.0	896.4	556.4	563.2	581.3	607.6	620.3	622.0	621.0	624.1
1803.5	27.5°	1453.5	758.7	511.3	533.1	556.4	578.9	585.8	584.7	582.7	586.1
1788.8	30°	1381.7	635.0	482.6	499.3	531.1	551.6	557.7	555.4	551.3	555.0
1781.2	32.5°	1305.9	533.8	459.0	475.7	510.2	530.4	536.6	534.2	531.1	534.2
1789.8	35°	1235.1	463.1	437.1	460.0	493.8	513.7	521.5	521.9	521.9	525.6
1812.3	37.5°	1170.2	421.7	419.0	450.1	482.6	500.3	511.6	512.3	497.6	498.6
1850.6	40°	1110.0	404.3	410.8	443.6	471.6	488.7	489.4	451.1	424.1	423.4
1894.4	42.5°	1060.8	400.9	413.2	442.9	463.8	464.4	416.3	386.5	379.0	379.4
1934.7	45°	1014.7	399.9	418.7	442.9	452.1	401.2	368.8	360.9	361.6	364.3
1952.8	47.5°	963.1	395.8	419.7	436.8	418.7	356.8	347.2	343.8	342.4	343.1
1948.7	50°	906.7	381.1	406.7	424.5	361.2	337.7	325.7	324.7	326.4	327.4
1925.8	52.5°	847.2	357.1	384.5	402.2	334.9	320.9	307.6	310.0	317.5	319.9
1901.9	55°	808.3	329.1	355.1	357.8	316.5	305.2	293.9	299.4	313.4	317.8
1887.5	57.5°	798.0	299.4	321.6	318.5	292.9	291.5	284.7	289.5	307.2	313.7
1886.8	60°	794.9	272.7	288.8	286.4	270.0	276.5	274.8	277.2	283.3	285.4
1880.0	62.5°	771.0	251.5	259.4	256.0	249.5	260.8	264.9	259.7	264.5	266.9
1833.2	65°	710.2	234.4	230.7	228.3	231.0	241.3	249.5	239.2	243.7	250.5
1652.7	67.5°	609.7	211.2	201.0	203.7	212.2	217.7	228.3	216.7	220.4	232.1
1331.1	70°	493.2	181.8	172.6	180.4	188.7	199.9	201.6	193.8	202.7	215.6
812.4	72.5°	348.9	152.1	145.6	161.7	164.4	179.1	175.3	171.6	183.9	188.3
401.6	75°	242.0	122.7	118.9	131.2	141.1	153.8	151.1	155.5	181.5	183.5
200.6	77.5°	153.1	95.4	93.0	100.8	114.5	128.5	132.9	183.5	310.0	322.3
104.2	80°	88.9	71.1	68.4	74.5	86.5	99.5	128.2	225.2	204.4	202.0
46.8	82.5°	49.6	48.9	45.5	47.2	57.8	71.8	181.1	158.6	128.8	132.9
18.8	85°	23.2	28.7	24.6	23.6	32.5	84.1	121.0	90.6	60.1	58.8
4.1	87.5°	6.2	5.5	5.5	6.2	13.7	72.5	48.2	38.6	22.9	22.2
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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