

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: P946198

Luminaire Tested: **GALN-SB1D-935-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946198
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-SB1D-935-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7202 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

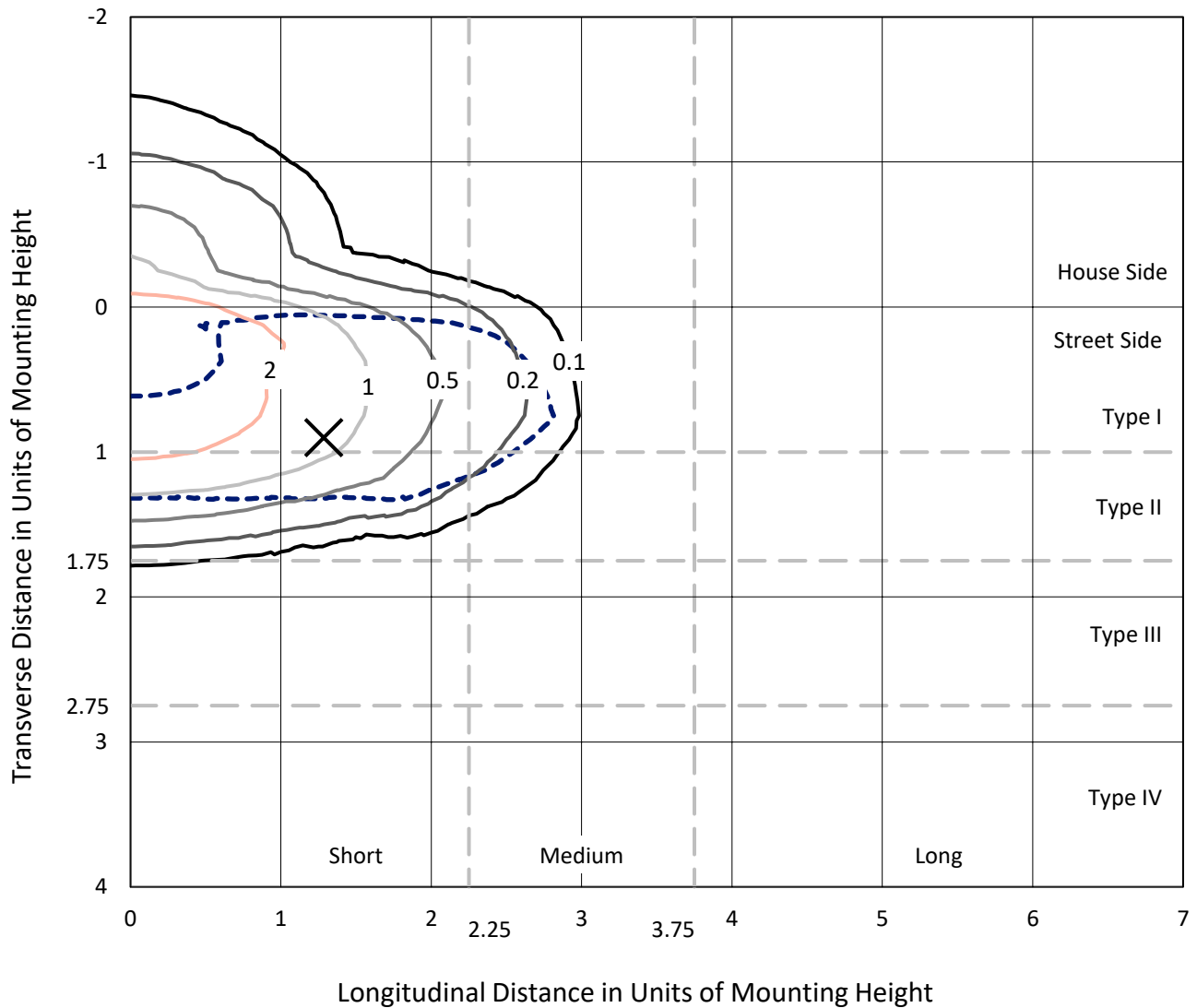
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

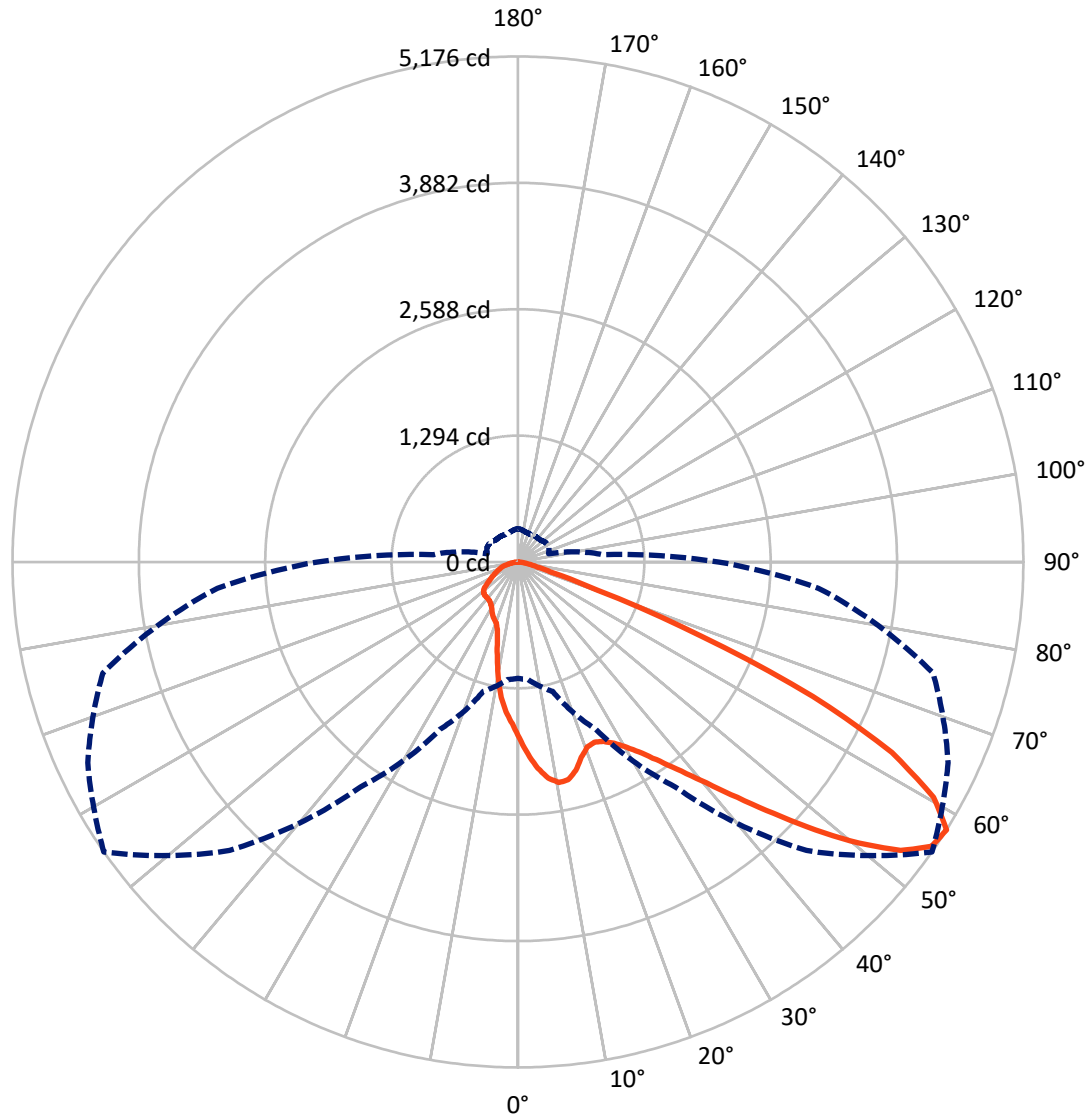
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	1303.2	0.0	1303.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5898.8	0.0	5898.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	7202.0	0.0	7202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	2.3
10°-20°	422.7	5.9
20°-30°	674.5	9.4
30°-40°	1067.8	14.8
40°-50°	1634.4	22.7
50°-60°	1750.6	24.3
60°-70°	1101.3	15.3
70°-80°	325.7	4.5
80°-90°	57.6	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°	7202.0	100.0
0°-180°	7202.0	100.0

Coefficient of Utilization



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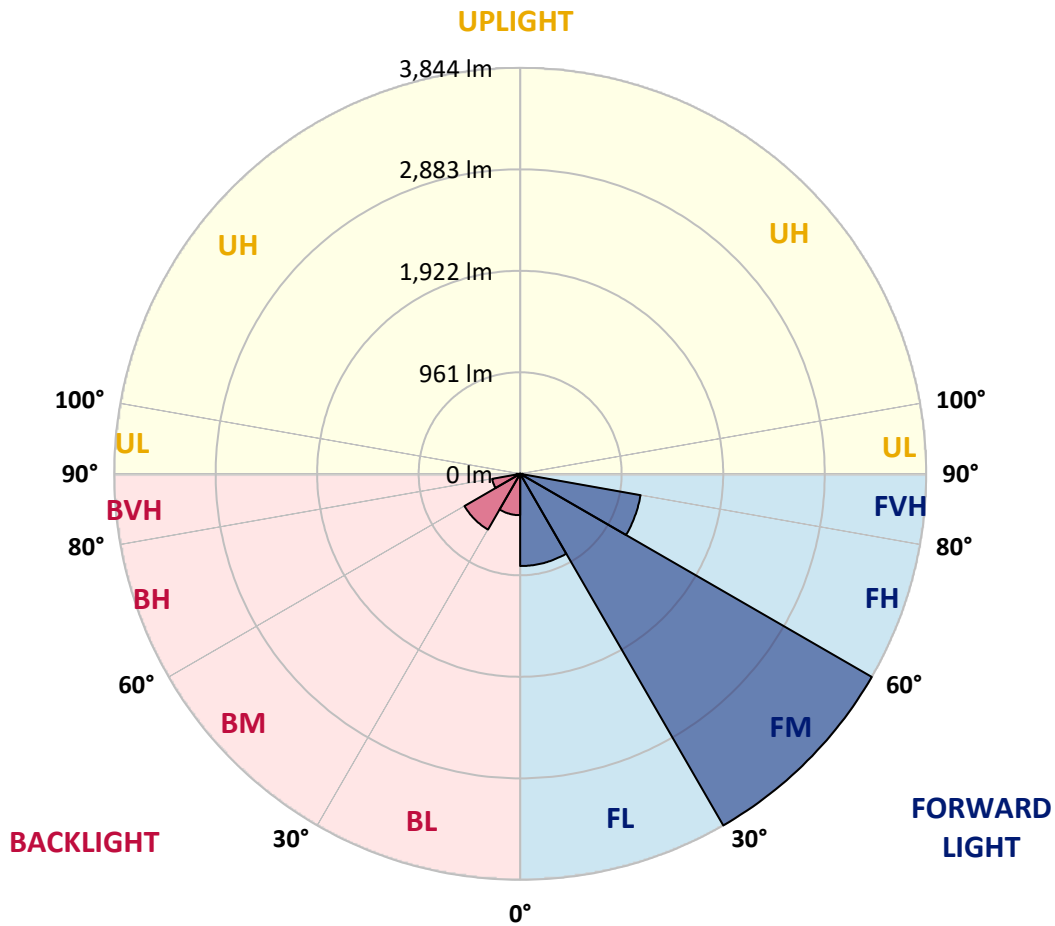
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	872.9	12.1			
FM (30°-60°)	3843.8	53.4			
FH (60°-80°)	1157.9	16.1			G1/1800
FVH (80°-90°)	24.3	0.3			G1/100
BL (0°-30°)	391.7	5.4	B1/500		
BM (30°-60°)	609.1	8.5	B1/1000		
BH (60°-80°)	269.1	3.7	B1/500		G1/500
BVH (80°-90°)	33.3	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°	1804.6	1804.6	1804.6	1804.6	1804.6	1804.6	1804.6	1804.6	1804.6	1804.6
2.5°	2070.4	2068.9	2077.1	2049.2	2030.2	2004.5	1970.6	1927.4	1880.9	1831.8
5°	2256.9	2243.9	2252.5	2231.6	2210.8	2172.1	2121.8	2051.4	1965.4	1867.5
7.5°	2227.5	2218.6	2240.6	2259.2	2274.8	2270.0	2233.1	2159.4	2048.5	1906.2
10°	1990.4	1980.3	2011.2	2075.6	2170.2	2252.5	2297.2	2251.4	2133.3	1948.7
12.5°	1781.1	1776.3	1796.8	1848.9	1953.9	2111.7	2289.0	2331.8	2221.6	1998.9
15°	1691.8	1685.8	1698.9	1725.3	1792.3	1939.4	2214.5	2386.9	2308.3	2057.0
17.5°	1672.0	1665.3	1670.9	1684.7	1727.9	1840.0	2102.1	2414.1	2398.8	2121.8
20°	1708.5	1702.9	1703.7	1702.9	1733.1	1822.1	2023.9	2403.6	2477.7	2181.4
22.5°	1796.8	1787.5	1787.8	1768.1	1784.5	1853.4	2003.4	2375.7	2548.1	2233.5
25°	1940.5	1923.7	1927.1	1876.8	1872.3	1923.4	2035.4	2354.1	2618.1	2275.2
27.5°	2137.1	2118.1	2108.0	2033.2	1997.4	2022.8	2100.6	2361.6	2684.4	2311.3
30°	2382.8	2359.7	2339.2	2233.1	2168.3	2159.0	2201.8	2410.7	2762.5	2349.3
32.5°	2684.0	2657.2	2619.9	2479.2	2388.0	2339.2	2332.9	2498.2	2854.1	2397.7
35°	3042.5	3007.5	2954.7	2772.6	2657.2	2557.4	2505.6	2624.4	2979.6	2470.7
37.5°	3411.9	3372.4	3324.0	3107.3	2965.5	2818.4	2716.4	2795.7	3146.8	2569.7
40°	3752.5	3708.2	3663.2	3470.3	3318.0	3140.8	2974.4	3012.4	3351.2	2688.1
42.5°	3953.6	3920.8	3903.7	3799.4	3681.8	3501.9	3295.3	3269.3	3580.9	2824.3
45°	3944.6	3931.2	3984.1	4027.3	3999.4	3899.6	3671.4	3553.3	3811.3	2942.4
47.5°	3733.9	3742.8	3860.9	4103.6	4210.5	4262.6	4099.5	3832.2	4011.6	3030.6
50°	3160.5	3168.0	3441.3	3964.7	4264.8	4558.6	4524.3	4104.3	4166.9	3084.6
52.5°	2706.7	2711.5	2828.8	3553.0	4085.4	4707.5	4907.0	4360.9	4280.5	3099.5
55°	2038.8	2055.5	2186.9	2787.5	3618.5	4589.5	5140.1	4625.2	4352.3	3101.0
57.5°	1191.0	1209.3	1371.6	1892.1	2812.4	4178.1	5175.5	4859.8	4401.1	3089.1
60°	583.4	591.2	662.0	994.4	1734.2	3385.4	4891.0	4973.3	4428.3	3082.7
62.5°	393.2	392.0	395.0	490.7	854.5	2175.0	4298.3	4774.5	4413.7	3058.5
65°	338.1	334.0	322.8	344.4	442.7	994.8	3321.0	4181.0	4303.2	2997.8
67.5°	292.3	292.6	293.0	286.3	316.1	459.1	2029.5	3293.5	3906.3	2710.4
70°	242.0	245.4	246.8	246.8	257.6	301.2	866.4	2257.3	3081.2	2125.1
72.5°	220.4	213.3	214.1	210.4	210.4	229.3	348.9	1279.6	1941.2	1195.5
75°	179.8	184.3	185.0	182.4	173.9	175.0	207.0	536.9	830.6	495.9
77.5°	155.3	155.3	156.7	154.9	148.2	131.1	138.1	208.1	282.6	203.3
80°	124.7	124.4	130.7	134.4	124.0	96.8	88.2	115.0	125.5	89.4
82.5°	60.7	64.4	89.7	102.4	94.2	70.0	54.0	71.5	67.0	39.5
85°	35.4	33.5	40.2	57.0	54.0	38.7	26.1	37.2	35.0	20.1
87.5°	11.2	10.4	8.2	19.4	15.6	10.8	7.1	10.8	9.7	4.5
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°
1804.6	0°	1804.6	1804.6	1804.6	1804.6	1804.6	1804.6	1804.6	1804.6	1804.6	1804.6
1810.5	2.5°	1784.1	1740.2	1696.6	1656.8	1632.6	1616.9	1601.3	1583.8	1577.1	1567.1
1815.4	5°	1766.2	1681.4	1605.8	1540.6	1481.4	1434.9	1388.0	1350.0	1332.9	1344.4
1830.6	7.5°	1755.8	1633.0	1516.4	1396.9	1281.9	1189.9	1109.9	1053.6	1028.3	1034.6
1845.5	10°	1746.5	1578.2	1400.6	1211.9	1046.6	932.6	850.7	807.9	791.9	795.3
1865.6	12.5°	1737.9	1516.8	1261.0	1012.7	837.0	761.7	738.3	738.7	741.6	743.9
1897.7	15°	1736.5	1442.7	1105.0	838.4	723.8	718.9	744.2	760.3	768.8	771.4
1924.5	17.5°	1734.2	1354.1	946.0	719.7	696.2	729.0	752.4	762.9	769.6	769.9
1950.5	20°	1725.3	1241.7	799.3	663.1	690.3	718.6	733.1	741.3	746.9	748.7
1970.3	22.5°	1697.7	1116.6	685.1	637.8	666.4	689.1	706.3	715.6	718.9	721.2
1974.0	25°	1648.2	976.6	606.1	613.6	633.3	662.0	675.7	677.6	676.5	679.8
1964.7	27.5°	1583.4	826.5	557.0	580.8	606.1	630.7	638.1	637.0	634.8	638.5
1948.7	30°	1505.3	691.8	525.7	543.9	578.6	600.9	607.6	605.0	600.5	604.6
1940.5	32.5°	1422.6	581.5	500.0	518.3	555.9	577.8	584.5	581.9	578.6	581.9
1949.8	35°	1345.5	504.5	476.2	501.1	538.0	559.6	568.1	568.5	568.5	572.6
1974.4	37.5°	1274.8	459.4	456.5	490.3	525.7	545.1	557.3	558.1	542.1	543.2
2016.1	40°	1209.3	440.4	447.5	483.3	513.8	532.4	533.1	491.4	462.0	461.3
2063.7	42.5°	1155.7	436.7	450.1	482.5	505.2	506.0	453.5	421.1	412.9	413.3
2107.6	45°	1105.4	435.6	456.1	482.5	492.6	437.1	401.7	393.2	393.9	396.9
2127.4	47.5°	1049.2	431.1	457.2	475.8	456.1	388.7	378.3	374.5	373.1	373.8
2122.9	50°	987.7	415.1	443.0	462.4	393.5	367.8	354.8	353.7	355.6	356.7
2098.0	52.5°	923.0	389.1	418.8	438.2	364.9	349.6	335.1	337.7	345.9	348.5
2071.9	55°	880.5	358.5	386.8	389.8	344.8	332.5	320.2	326.1	341.4	346.2
2056.3	57.5°	869.3	326.1	350.3	347.0	319.1	317.6	310.1	315.3	334.7	341.8
2055.5	60°	866.0	297.1	314.6	312.0	294.1	301.2	299.3	301.9	308.6	310.9
2048.1	62.5°	839.9	274.0	282.6	278.9	271.8	284.1	288.5	283.0	288.2	290.8
1997.1	65°	773.7	255.4	251.3	248.7	251.7	262.9	271.8	260.6	265.5	272.9
1800.5	67.5°	664.2	230.1	218.9	221.9	231.2	237.2	248.7	236.0	240.1	252.8
1450.1	70°	537.2	198.1	188.0	196.6	205.5	217.8	219.7	211.1	220.8	234.9
885.0	72.5°	380.1	165.7	158.6	176.1	179.1	195.1	191.0	186.9	200.3	205.1
437.5	75°	263.6	133.7	129.6	143.0	153.8	167.5	164.6	169.4	197.7	199.9
218.5	77.5°	166.8	103.9	101.3	109.8	124.7	140.0	144.8	199.9	337.7	351.1
113.6	80°	96.8	77.4	74.5	81.2	94.2	108.3	139.6	245.4	222.6	220.0
51.0	82.5°	54.0	53.2	49.5	51.4	62.9	78.2	197.3	172.8	140.4	144.8
20.5	85°	25.3	31.3	26.8	25.7	35.4	91.6	131.8	98.7	65.5	64.0
4.5	87.5°	6.7	6.0	6.0	6.7	14.9	78.9	52.5	42.1	24.9	24.2
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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