

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: P946408

Luminaire Tested: **GALN-SB2A-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946408
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-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7933 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

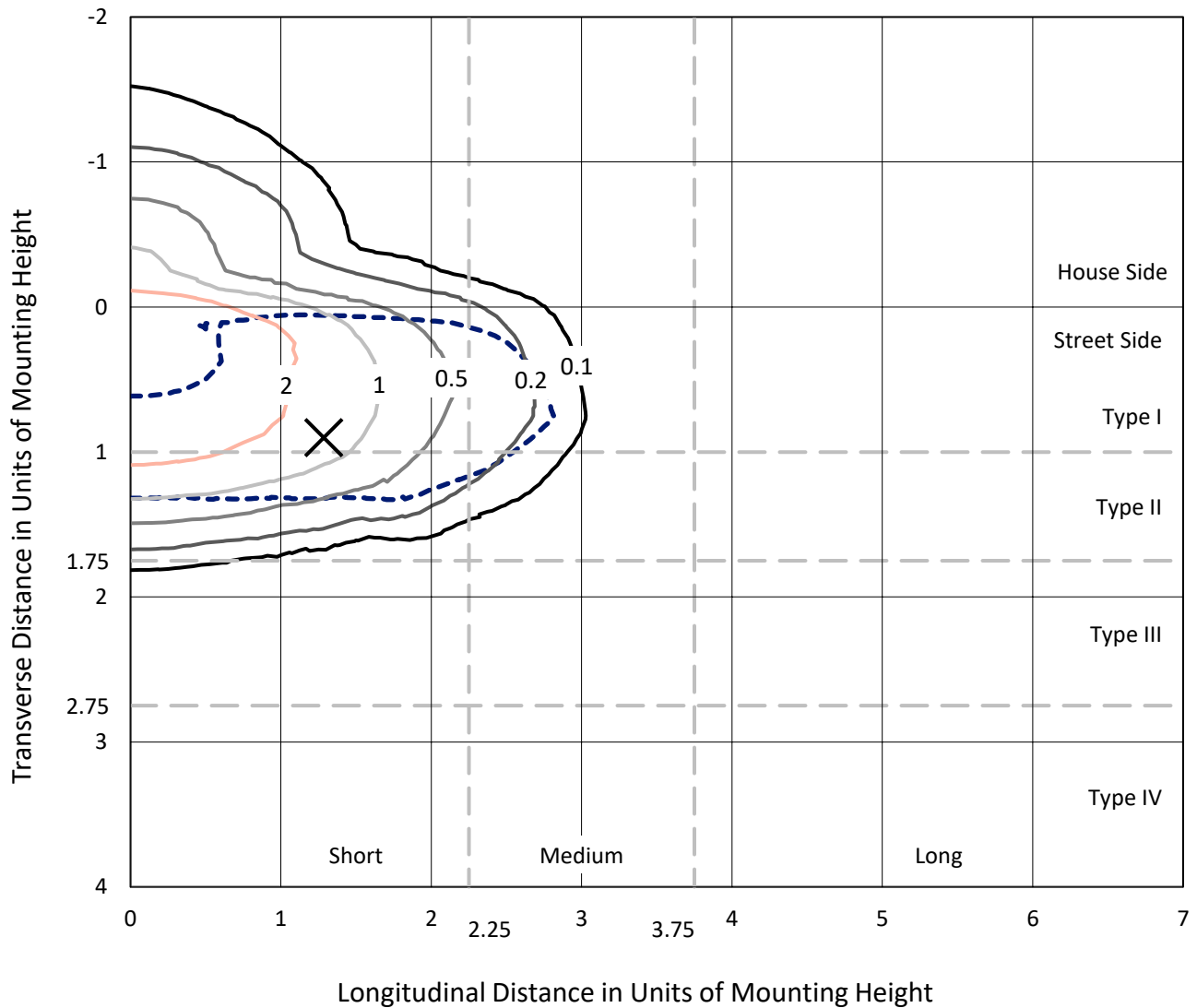
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

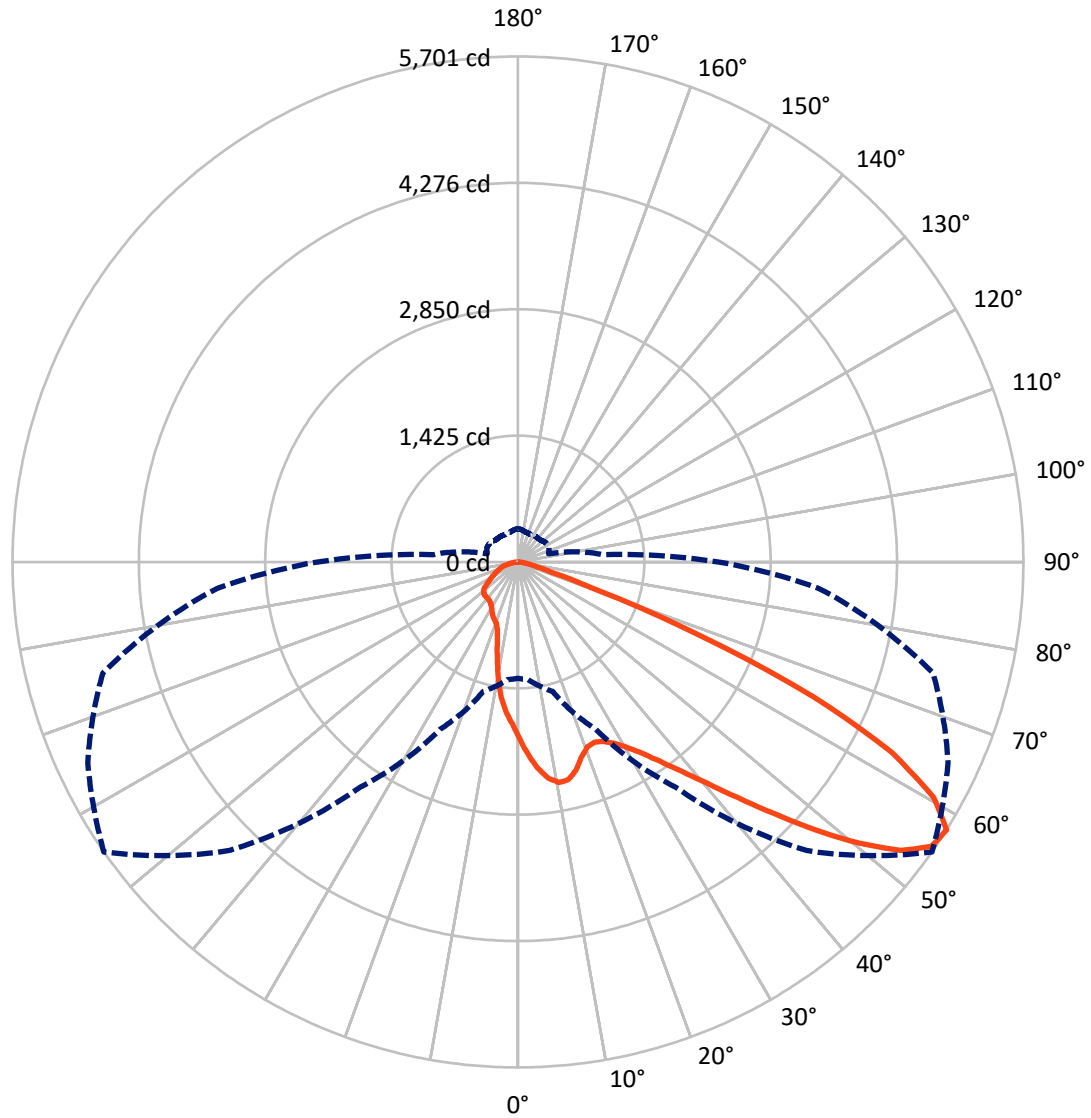
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	1435.4	0.0	1435.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6497.6	0.0	6497.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	7933.0	0.0	7933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	2.3
10°-20°	465.6	5.9
20°-30°	742.9	9.4
30°-40°	1176.2	14.8
40°-50°	1800.3	22.7
50°-60°	1928.3	24.3
60°-70°	1213.1	15.3
70°-80°	358.7	4.5
80°-90°	63.4	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°	7933.0	100.0
0°-180°	7933.0	100.0

Coefficient of Utilization



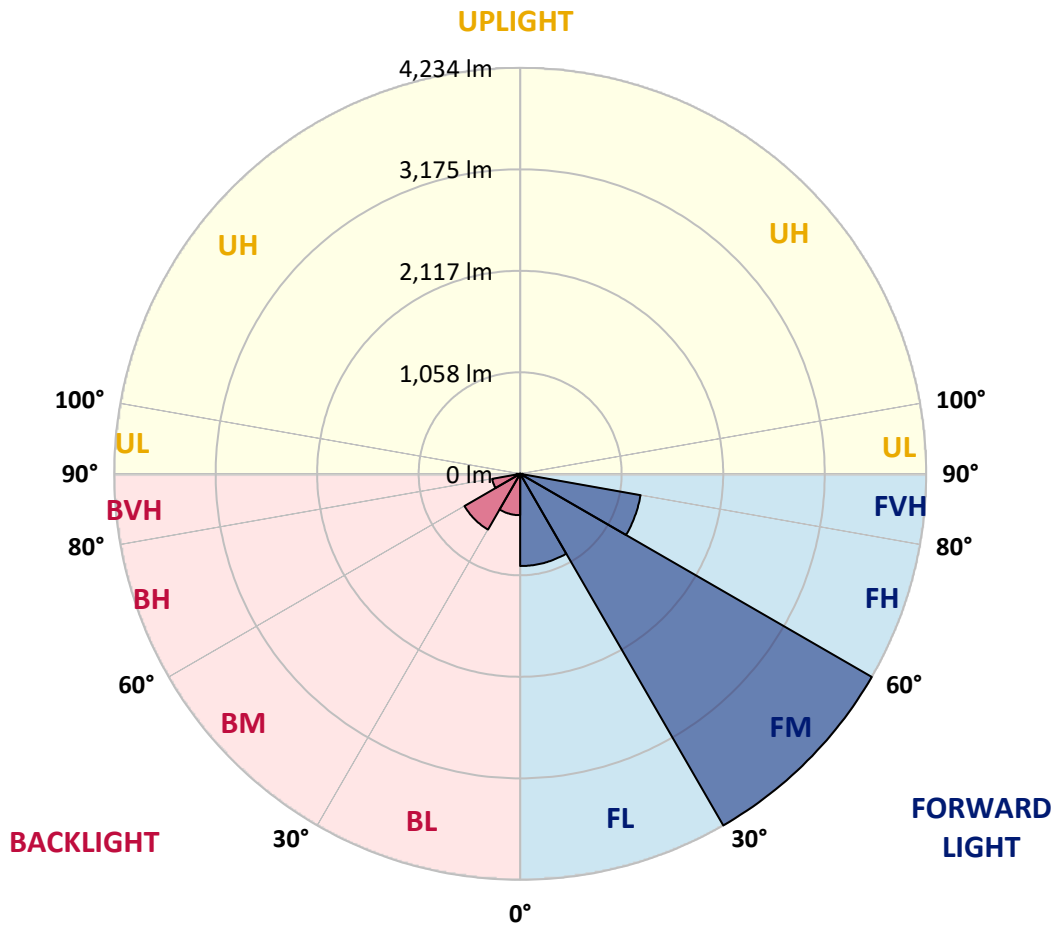
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	961.5	12.1			
FM (30°-60°)	4233.9	53.4			
FH (60°-80°)	1275.4	16.1			G1/1800
FVH (80°-90°)	26.8	0.3			G1/100
BL (0°-30°)	431.4	5.4	B1/500		
BM (30°-60°)	670.9	8.5	B1/1000		
BH (60°-80°)	296.5	3.7	B1/500		G1/500
BVH (80°-90°)	36.6	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°	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8
2.5°	2280.6	2278.9	2287.9	2257.2	2236.3	2208.0	2170.7	2123.1	2071.8	2017.7
5°	2486.0	2471.7	2481.1	2458.1	2435.2	2392.5	2337.2	2259.6	2164.9	2057.1
7.5°	2453.6	2443.8	2468.0	2488.5	2505.7	2500.4	2459.8	2378.6	2256.4	2099.7
10°	2192.4	2181.3	2215.4	2286.3	2390.5	2481.1	2530.3	2479.9	2349.9	2146.5
12.5°	1961.9	1956.6	1979.1	2036.6	2152.2	2326.1	2521.3	2568.5	2447.1	2201.8
15°	1863.5	1856.9	1871.3	1900.4	1974.2	2136.2	2439.3	2629.1	2542.6	2265.8
17.5°	1841.8	1834.4	1840.5	1855.7	1903.3	2026.7	2315.4	2659.1	2642.3	2337.2
20°	1881.9	1875.8	1876.6	1875.8	1909.0	2007.0	2229.3	2647.6	2729.2	2402.8
22.5°	1979.1	1968.9	1969.3	1947.6	1965.6	2041.5	2206.7	2616.8	2806.7	2460.2
25°	2137.4	2119.0	2122.7	2067.3	2062.4	2118.6	2242.0	2593.1	2883.8	2506.1
27.5°	2354.0	2333.1	2322.0	2239.6	2200.2	2228.1	2313.8	2601.3	2956.8	2545.9
30°	2624.6	2599.2	2576.7	2459.8	2388.4	2378.2	2425.3	2655.4	3042.9	2587.7
32.5°	2956.4	2926.9	2885.9	2730.9	2630.4	2576.7	2569.7	2751.8	3143.8	2641.0
35°	3351.3	3312.8	3254.5	3054.0	2926.9	2817.0	2760.0	2890.8	3282.0	2721.4
37.5°	3758.2	3714.7	3661.4	3422.7	3266.4	3104.5	2992.1	3079.4	3466.2	2830.5
40°	4133.4	4084.6	4035.0	3822.5	3654.8	3459.6	3276.3	3318.1	3691.3	2960.9
42.5°	4354.8	4318.8	4299.9	4185.1	4055.5	3857.4	3629.8	3601.1	3944.3	3111.0
45°	4345.0	4330.2	4388.5	4436.0	4405.3	4295.4	4044.0	3914.0	4198.2	3241.0
47.5°	4112.9	4122.7	4252.7	4520.1	4637.8	4695.2	4515.6	4221.2	4418.8	3338.2
50°	3481.3	3489.5	3790.5	4367.1	4697.7	5021.3	4983.5	4520.9	4589.8	3397.7
52.5°	2981.4	2986.8	3115.9	3913.6	4500.0	5185.3	5405.1	4803.5	4714.9	3414.1
55°	2245.7	2264.2	2408.9	3070.4	3985.8	5055.3	5661.8	5094.7	4794.1	3415.7
57.5°	1311.9	1332.0	1510.8	2084.1	3097.9	4602.1	5700.8	5353.0	4847.8	3402.6
60°	642.6	651.2	729.2	1095.4	1910.2	3729.0	5387.5	5478.1	4877.7	3395.6
62.5°	433.1	431.8	435.1	540.5	941.2	2395.8	4734.6	5259.1	4861.7	3369.0
65°	372.4	367.9	355.6	379.3	487.6	1095.8	3658.1	4605.4	4739.9	3302.1
67.5°	321.9	322.3	322.7	315.4	348.2	505.7	2235.5	3627.7	4302.8	2985.5
70°	266.6	270.3	271.9	271.9	283.8	331.8	954.3	2486.4	3394.0	2340.8
72.5°	242.8	235.0	235.8	231.7	231.7	252.6	384.3	1409.5	2138.3	1316.8
75°	198.1	203.0	203.8	200.9	191.5	192.7	228.0	591.4	914.9	546.3
77.5°	171.0	171.0	172.7	170.6	163.2	144.4	152.1	229.2	311.3	223.9
80°	137.4	137.0	143.9	148.0	136.6	106.6	97.2	126.7	138.2	98.4
82.5°	66.8	70.9	98.8	112.8	103.8	77.1	59.5	78.7	73.8	43.5
85°	39.0	36.9	44.3	62.7	59.5	42.7	28.7	41.0	38.5	22.1
87.5°	12.3	11.5	9.0	21.3	17.2	11.9	7.8	11.9	10.7	4.9
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°
1987.8	0°	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8
1994.3	2.5°	1965.2	1916.8	1868.8	1824.9	1798.3	1781.1	1763.8	1744.6	1737.2	1726.1
1999.6	5°	1945.5	1852.0	1768.8	1697.0	1631.8	1580.5	1528.9	1487.0	1468.2	1480.9
2016.5	7.5°	1934.0	1798.7	1670.3	1538.7	1412.0	1310.7	1222.5	1160.6	1132.7	1139.7
2032.9	10°	1923.8	1738.4	1542.8	1334.9	1152.8	1027.3	937.1	889.9	872.3	876.0
2055.0	12.5°	1914.3	1670.7	1389.0	1115.5	921.9	839.1	813.2	813.6	816.9	819.4
2090.3	15°	1912.7	1589.1	1217.2	923.5	797.2	791.9	819.8	837.4	846.9	849.7
2119.8	17.5°	1910.2	1491.5	1042.1	792.7	766.9	803.0	828.8	840.3	847.7	848.1
2148.5	20°	1900.4	1367.7	880.5	730.4	760.3	791.5	807.5	816.5	822.7	824.7
2170.2	22.5°	1870.1	1229.9	754.6	702.5	734.1	759.1	778.0	788.2	791.9	794.4
2174.3	25°	1815.5	1075.7	667.6	675.8	697.6	729.2	744.3	746.4	745.2	748.8
2164.1	27.5°	1744.2	910.4	613.5	639.8	667.6	694.7	702.9	701.7	699.2	703.3
2146.5	30°	1658.0	762.0	579.1	599.2	637.3	661.9	669.3	666.4	661.5	666.0
2137.4	32.5°	1567.0	640.6	550.8	570.9	612.3	636.5	643.9	641.0	637.3	641.0
2147.7	35°	1482.1	555.7	524.5	552.0	592.6	616.4	625.8	626.2	626.2	630.7
2174.8	37.5°	1404.2	506.1	502.8	540.1	579.1	600.4	613.9	614.7	597.1	598.3
2220.7	40°	1332.0	485.1	492.9	532.3	565.9	586.4	587.3	541.3	508.9	508.1
2273.2	42.5°	1272.9	481.0	495.8	531.5	556.5	557.3	499.5	463.8	454.8	455.2
2321.6	45°	1217.6	479.8	502.4	531.5	542.6	481.5	442.5	433.1	433.9	437.2
2343.3	47.5°	1155.7	474.9	503.6	524.1	502.4	428.1	416.7	412.6	410.9	411.7
2338.4	50°	1088.0	457.3	488.0	509.3	433.5	405.2	390.8	389.6	391.6	392.9
2310.9	52.5°	1016.6	428.6	461.4	482.7	401.9	385.1	369.1	372.0	381.0	383.9
2282.2	55°	969.9	394.9	426.1	429.4	379.8	366.2	352.7	359.2	376.1	381.4
2265.0	57.5°	957.6	359.2	385.9	382.2	351.5	349.8	341.6	347.4	368.7	376.5
2264.2	60°	953.9	327.3	346.5	343.7	324.0	331.8	329.7	332.6	340.0	342.4
2256.0	62.5°	925.2	301.8	311.3	307.2	299.4	312.9	317.8	311.7	317.4	320.3
2199.8	65°	852.2	281.3	276.8	273.9	277.2	289.5	299.4	287.1	292.4	300.6
1983.2	67.5°	731.6	253.4	241.1	244.4	254.7	261.2	273.9	260.0	264.5	278.5
1597.3	70°	591.8	218.2	207.1	216.5	226.4	239.9	242.0	232.5	243.2	258.8
974.8	72.5°	418.7	182.5	174.7	194.0	197.3	214.9	210.4	205.9	220.6	226.0
481.9	75°	290.4	147.2	142.7	157.5	169.4	184.5	181.3	186.6	217.8	220.2
240.7	77.5°	183.7	114.4	111.5	121.0	137.4	154.2	159.5	220.2	372.0	386.7
125.1	80°	106.6	85.3	82.0	89.4	103.8	119.3	153.8	270.3	245.2	242.4
56.2	82.5°	59.5	58.6	54.5	56.6	69.3	86.1	217.4	190.3	154.6	159.5
22.6	85°	27.9	34.4	29.5	28.3	39.0	100.9	145.2	108.7	72.2	70.5
4.9	87.5°	7.4	6.6	6.6	7.4	16.4	86.9	57.8	46.3	27.5	26.7
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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