

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: P945631

Luminaire Tested: **GALN-SB1C-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945631
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-SB1C-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8061 lumens
Efficiency: N/A
Efficacy: 148.2 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

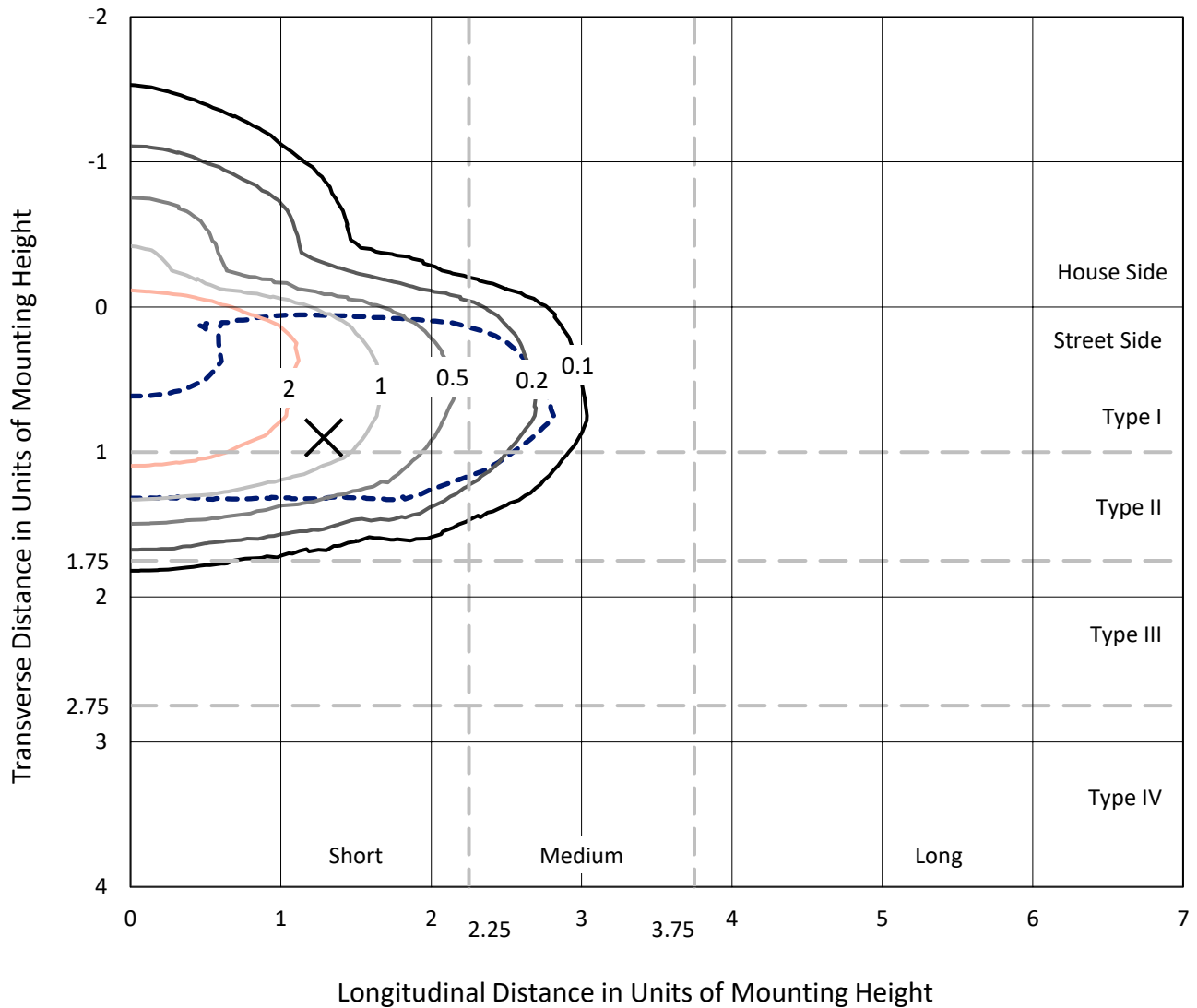
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

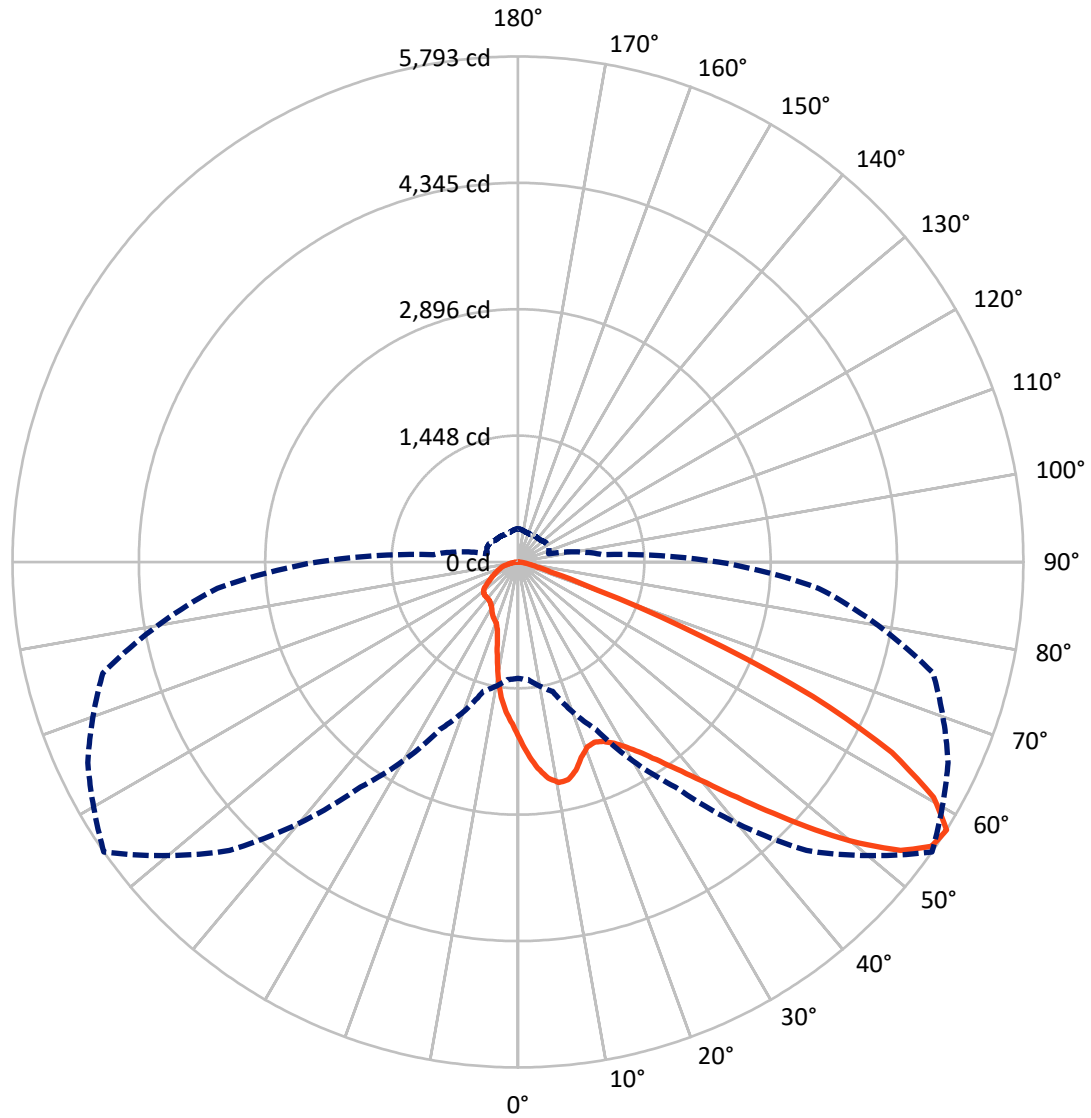
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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
House Side	Lumens	1458.6	0.0	1458.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6602.4	0.0	6602.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	8061.0	0.0	8061.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	2.3
10°-20°	473.1	5.9
20°-30°	754.9	9.4
30°-40°	1195.2	14.8
40°-50°	1829.4	22.7
50°-60°	1959.4	24.3
60°-70°	1232.7	15.3
70°-80°	364.5	4.5
80°-90°	64.5	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°	8061.0	100.0
0°-180°	8061.0	100.0

Coefficient of Utilization



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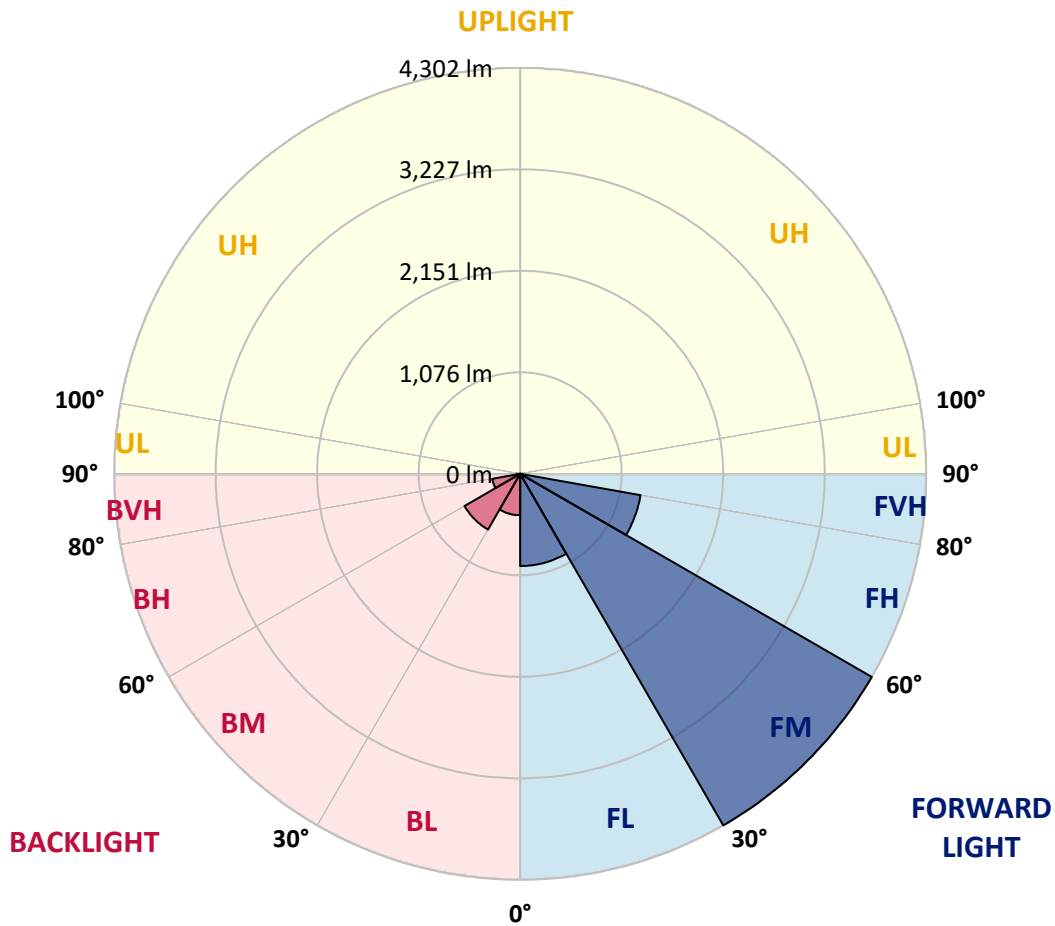
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	977.0	12.1			
FM (30°-60°)	4302.2	53.4			
FH (60°-80°)	1296.0	16.1			G1/1800
FVH (80°-90°)	27.2	0.3			G1/100
BL (0°-30°)	438.4	5.4	B1/500		
BM (30°-60°)	681.7	8.5	B1/1000		
BH (60°-80°)	301.2	3.7	B1/500		G1/500
BVH (80°-90°)	37.2	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°	2019.8	2019.8	2019.8	2019.8	2019.8	2019.8	2019.8	2019.8	2019.8	2019.8
2.5°	2317.4	2315.7	2324.9	2293.6	2272.4	2243.6	2205.7	2157.3	2105.3	2050.2
5°	2526.1	2511.6	2521.1	2497.8	2474.5	2431.1	2374.9	2296.1	2199.8	2090.3
7.5°	2493.2	2483.2	2507.8	2528.6	2546.1	2540.7	2499.5	2417.0	2292.8	2133.6
10°	2227.8	2216.5	2251.1	2323.2	2429.0	2521.1	2571.1	2519.9	2387.8	2181.1
12.5°	1993.6	1988.2	2011.1	2069.4	2186.9	2363.6	2562.0	2609.9	2486.5	2237.4
15°	1893.6	1886.9	1901.5	1931.1	2006.1	2170.7	2478.6	2671.6	2583.6	2302.4
17.5°	1871.5	1864.0	1870.2	1885.6	1934.0	2059.4	2352.8	2702.0	2684.9	2374.9
20°	1912.3	1906.1	1906.9	1906.1	1939.8	2039.4	2265.3	2690.3	2773.2	2441.5
22.5°	2011.1	2000.7	2001.1	1979.0	1997.3	2074.4	2242.4	2659.1	2852.0	2499.9
25°	2171.9	2153.2	2156.9	2100.7	2095.7	2152.8	2278.2	2634.9	2930.4	2546.6
27.5°	2392.0	2370.7	2359.4	2275.7	2235.7	2264.0	2351.1	2643.2	3004.5	2587.0
30°	2667.0	2641.1	2618.2	2499.5	2427.0	2416.5	2464.5	2698.2	3092.0	2629.5
32.5°	3004.1	2974.1	2932.4	2774.9	2672.8	2618.2	2611.1	2796.2	3194.5	2683.7
35°	3405.4	3366.2	3307.1	3103.3	2974.1	2862.4	2804.5	2937.4	3335.0	2765.3
37.5°	3818.8	3774.6	3720.4	3477.9	3319.1	3154.5	3040.4	3129.1	3522.1	2876.2
40°	4200.1	4150.5	4100.1	3884.2	3713.8	3515.4	3329.1	3371.7	3750.9	3008.7
42.5°	4425.1	4388.4	4369.3	4252.6	4120.9	3919.6	3688.4	3659.2	4008.0	3161.2
45°	4415.1	4400.1	4459.3	4507.6	4476.4	4364.7	4109.2	3977.1	4265.9	3293.3
47.5°	4179.2	4189.3	4321.4	4593.0	4712.6	4771.0	4588.5	4289.3	4490.1	3392.1
50°	3537.5	3545.8	3851.7	4437.6	4773.5	5102.3	5063.9	4593.9	4663.9	3452.5
52.5°	3029.5	3034.9	3166.2	3976.7	4572.6	5269.0	5492.3	4881.0	4791.0	3469.2
55°	2281.9	2300.7	2447.8	3120.0	4050.1	5136.9	5753.2	5176.9	4871.4	3470.8
57.5°	1333.1	1353.5	1535.2	2117.8	3147.9	4676.4	5792.8	5439.4	4926.0	3457.5
60°	653.0	661.7	740.9	1113.0	1941.1	3789.2	5474.4	5566.5	4956.4	3450.4
62.5°	440.1	438.8	442.1	549.2	956.4	2434.5	4811.0	5344.0	4940.2	3423.3
65°	378.4	373.8	361.3	385.5	495.5	1113.5	3717.1	4679.7	4816.4	3355.4
67.5°	327.1	327.5	328.0	320.5	353.8	513.8	2271.5	3686.3	4372.2	3033.7
70°	270.9	274.6	276.3	276.3	288.4	337.1	969.7	2526.6	3448.7	2378.6
72.5°	246.7	238.8	239.6	235.4	235.4	256.7	390.5	1432.3	2172.8	1338.1
75°	201.3	206.3	207.1	204.2	194.6	195.9	231.7	600.9	929.7	555.1
77.5°	173.8	173.8	175.4	173.4	165.9	146.7	154.6	232.9	316.3	227.5
80°	139.6	139.2	146.3	150.4	138.8	108.3	98.8	128.8	140.4	100.0
82.5°	67.9	72.1	100.4	114.6	105.4	78.3	60.4	80.0	75.0	44.2
85°	39.6	37.5	45.0	63.8	60.4	43.3	29.2	41.7	39.2	22.5
87.5°	12.5	11.7	9.2	21.7	17.5	12.1	7.9	12.1	10.8	5.0
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2019.8	0°	2019.8	2019.8	2019.8	2019.8	2019.8	2019.8	2019.8	2019.8	2019.8	2019.8
2026.5	2.5°	1996.9	1947.7	1899.0	1854.4	1827.3	1809.8	1792.3	1772.7	1765.2	1754.0
2031.9	5°	1976.9	1881.9	1797.3	1724.4	1658.1	1606.0	1553.5	1511.0	1491.8	1504.8
2049.0	7.5°	1965.2	1827.7	1697.3	1563.5	1434.8	1331.8	1242.2	1179.3	1151.0	1158.1
2065.7	10°	1954.8	1766.5	1567.7	1356.4	1171.4	1043.9	952.2	904.3	886.4	890.1
2088.2	12.5°	1945.2	1697.7	1411.4	1133.5	936.8	852.6	826.3	826.8	830.1	832.6
2124.0	15°	1943.6	1614.8	1236.8	938.4	810.1	804.7	833.0	850.9	860.5	863.4
2154.0	17.5°	1941.1	1515.6	1058.9	805.5	779.3	815.9	842.2	853.9	861.4	861.8
2183.2	20°	1931.1	1389.7	894.7	742.2	772.6	804.3	820.5	829.7	835.9	838.0
2205.3	22.5°	1900.2	1249.7	766.8	713.8	745.9	771.3	790.5	800.9	804.7	807.2
2209.4	25°	1844.8	1093.0	678.4	686.7	708.8	740.9	756.3	758.4	757.2	760.9
2199.0	27.5°	1772.3	925.1	623.4	650.1	678.4	705.9	714.3	713.0	710.5	714.7
2181.1	30°	1684.8	774.3	588.4	608.8	647.6	672.6	680.1	677.2	672.2	676.7
2171.9	32.5°	1592.3	650.9	559.7	580.1	622.2	646.7	654.2	651.3	647.6	651.3
2182.3	35°	1506.0	564.7	533.0	560.9	602.2	626.3	635.9	636.3	636.3	640.9
2209.8	37.5°	1426.8	514.2	510.9	548.8	588.4	610.1	623.8	624.7	606.7	608.0
2256.5	40°	1353.5	493.0	500.9	540.9	575.1	595.9	596.7	550.1	517.1	516.3
2309.9	42.5°	1293.5	488.8	503.8	540.1	565.5	566.3	507.6	471.3	462.1	462.6
2359.0	45°	1237.2	487.6	510.5	540.1	551.3	489.2	449.6	440.1	440.9	444.2
2381.1	47.5°	1174.3	482.6	511.7	532.6	510.5	435.1	423.4	419.2	417.5	418.4
2376.1	50°	1105.5	464.6	495.9	517.6	440.5	411.7	397.1	395.9	398.0	399.2
2348.2	52.5°	1033.0	435.5	468.8	490.5	408.4	391.3	375.0	378.0	387.1	390.0
2319.0	55°	985.5	401.3	433.0	436.3	385.9	372.1	358.4	365.0	382.1	387.5
2301.5	57.5°	973.0	365.0	392.1	388.4	357.1	355.5	347.1	353.0	374.6	382.5
2300.7	60°	969.3	332.5	352.1	349.2	329.2	337.1	335.0	338.0	345.5	348.0
2292.4	62.5°	940.1	306.7	316.3	312.1	304.2	318.0	323.0	316.7	322.5	325.5
2235.3	65°	865.9	285.9	281.3	278.4	281.7	294.2	304.2	291.7	297.1	305.5
2015.2	67.5°	743.4	257.5	245.0	248.4	258.8	265.4	278.4	264.2	268.8	283.0
1623.1	70°	601.3	221.7	210.4	220.0	230.0	243.8	245.9	236.3	247.1	262.9
990.5	72.5°	425.5	185.4	177.5	197.1	200.4	218.4	213.8	209.2	224.2	229.6
489.6	75°	295.0	149.6	145.0	160.0	172.1	187.5	184.2	189.6	221.3	223.8
244.6	77.5°	186.7	116.3	113.3	122.9	139.6	156.7	162.1	223.8	378.0	393.0
127.1	80°	108.3	86.7	83.3	90.8	105.4	121.3	156.3	274.6	249.2	246.3
57.1	82.5°	60.4	59.6	55.4	57.5	70.4	87.5	220.9	193.4	157.1	162.1
22.9	85°	28.3	35.0	30.0	28.8	39.6	102.5	147.5	110.4	73.3	71.7
5.0	87.5°	7.5	6.7	6.7	7.5	16.7	88.3	58.8	47.1	27.9	27.1
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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