

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: P946429

Luminaire Tested: **GALN-SB2A-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946429
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-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8198 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

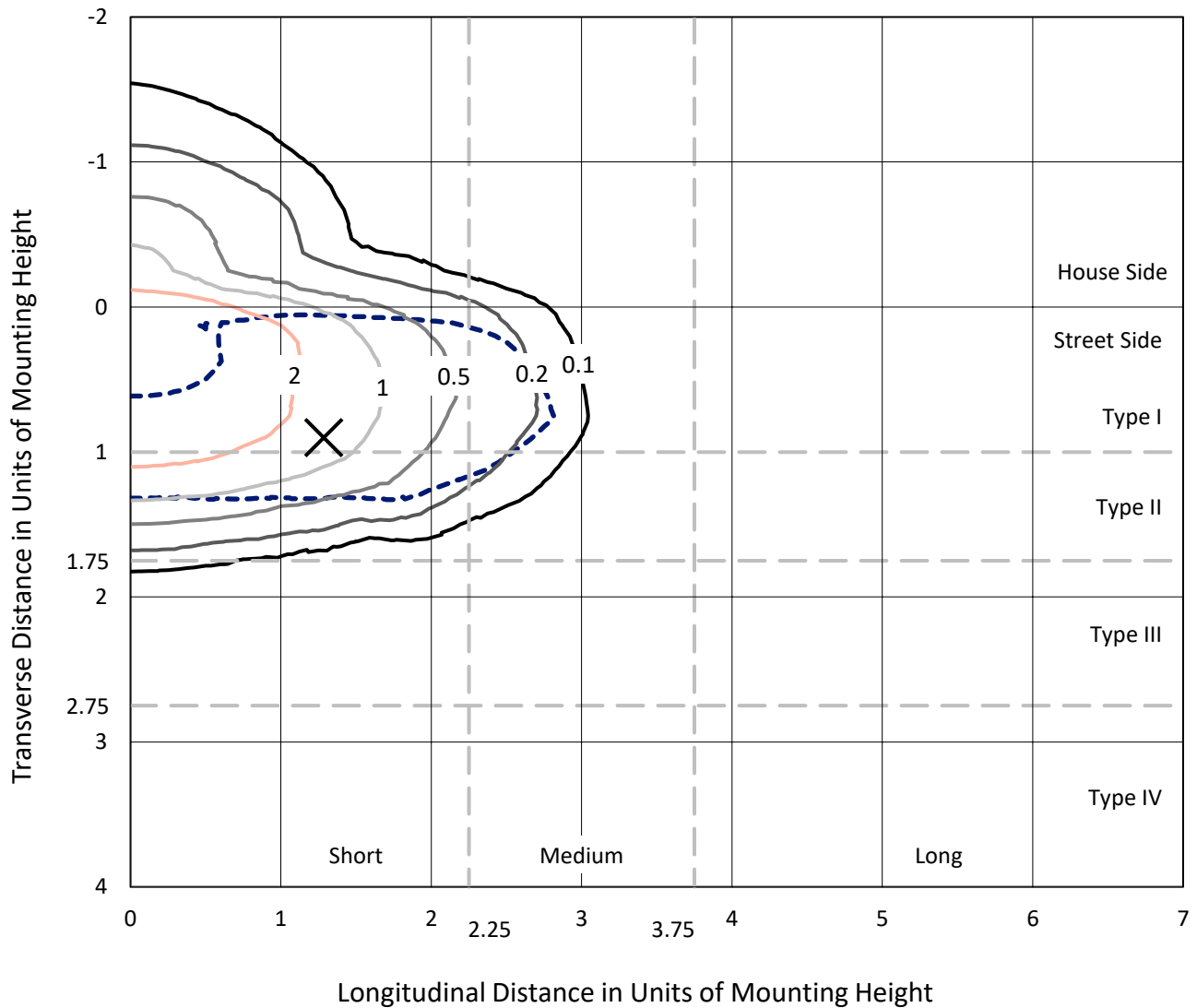
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

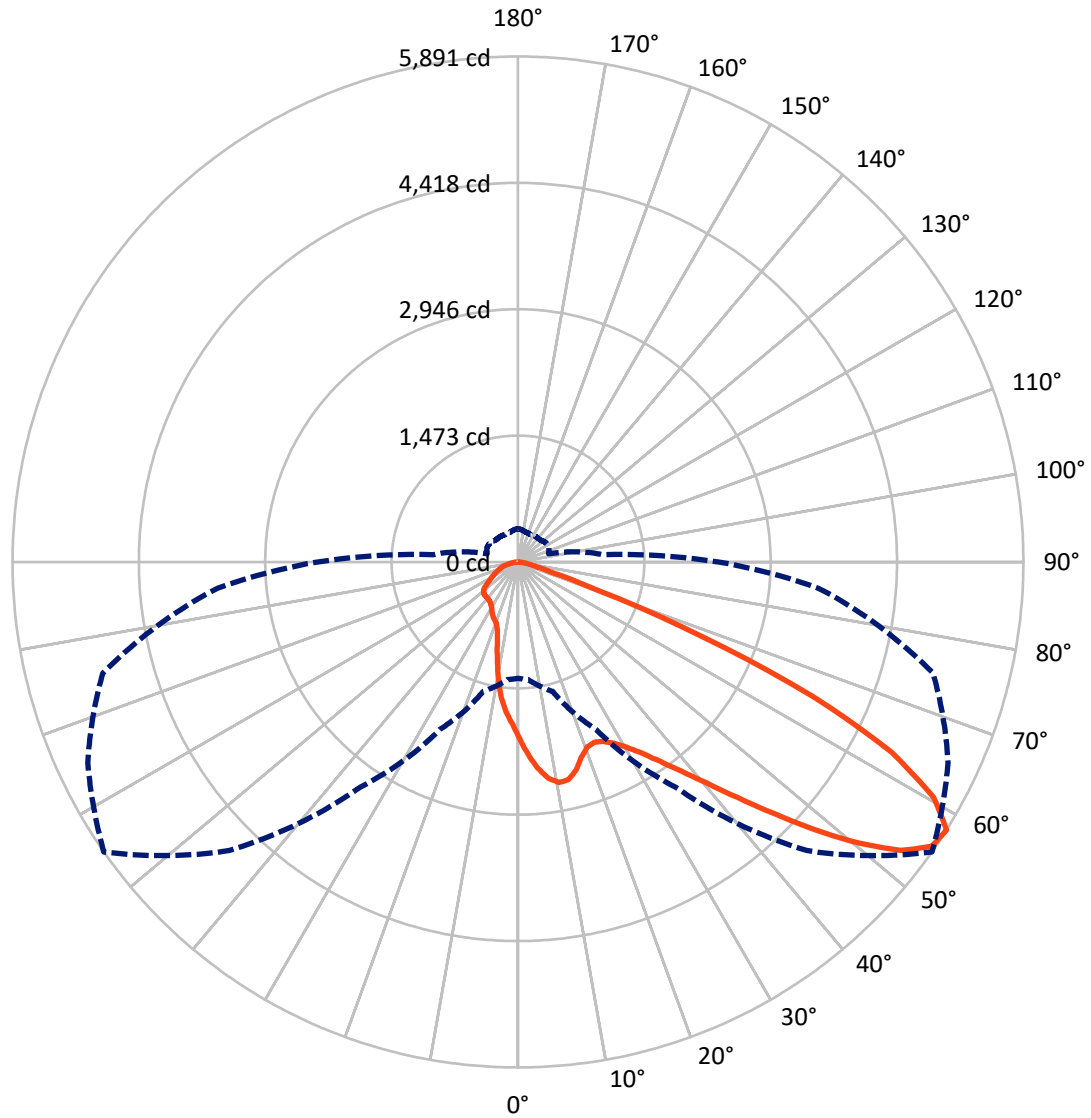
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1483.4	0.0	1483.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6714.6	0.0	6714.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	8198.0	0.0	8198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	2.3
10°-20°	481.1	5.9
20°-30°	767.7	9.4
30°-40°	1215.5	14.8
40°-50°	1860.4	22.7
50°-60°	1992.7	24.3
60°-70°	1253.6	15.3
70°-80°	370.7	4.5
80°-90°	65.6	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°	8198.0	100.0
0°-180°	8198.0	100.0

Coefficient of Utilization



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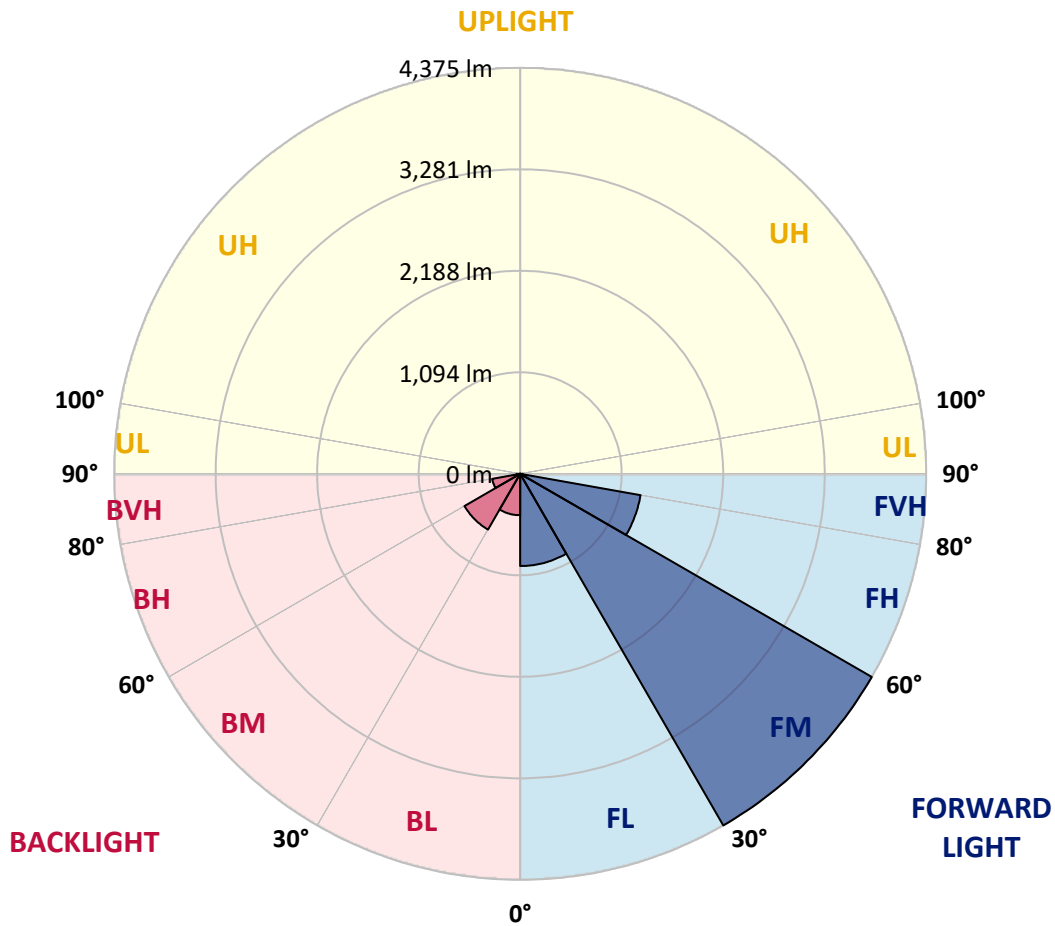
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.6	12.1			
FM (30°-60°)	4375.3	53.4			
FH (60°-80°)	1318.0	16.1			G1/1800
FVH (80°-90°)	27.7	0.3			G1/100
BL (0°-30°)	445.9	5.4	B1/500		
BM (30°-60°)	693.3	8.5	B1/1000		
BH (60°-80°)	306.4	3.7	B1/500		G1/500
BVH (80°-90°)	37.9	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°	2054.2	2054.2	2054.2	2054.2	2054.2	2054.2	2054.2	2054.2	2054.2	2054.2
2.5°	2356.7	2355.0	2364.4	2332.6	2311.0	2281.7	2243.2	2194.0	2141.0	2085.1
5°	2569.1	2554.2	2564.0	2540.2	2516.5	2472.4	2415.2	2335.1	2237.2	2125.8
7.5°	2535.6	2525.4	2550.4	2571.6	2589.4	2583.9	2541.9	2458.0	2331.7	2169.8
10°	2265.6	2254.2	2289.4	2362.7	2470.3	2564.0	2614.8	2562.7	2428.4	2218.2
12.5°	2027.5	2021.9	2045.3	2104.6	2224.1	2403.8	2605.5	2654.3	2528.8	2275.4
15°	1925.7	1919.0	1933.8	1963.9	2040.2	2207.6	2520.8	2717.0	2627.6	2341.5
17.5°	1903.3	1895.7	1902.0	1917.7	1966.9	2094.4	2392.8	2747.9	2730.5	2415.2
20°	1944.8	1938.5	1939.3	1938.5	1972.8	2074.1	2303.8	2736.0	2820.4	2483.0
22.5°	2045.3	2034.7	2035.1	2012.6	2031.3	2109.7	2280.5	2704.3	2900.5	2542.4
25°	2208.8	2189.8	2193.6	2136.4	2131.3	2189.3	2316.9	2679.7	2980.2	2589.8
27.5°	2432.6	2411.0	2399.5	2314.4	2273.7	2302.5	2391.1	2688.2	3055.6	2630.9
30°	2712.3	2686.0	2662.7	2541.9	2468.2	2457.6	2506.3	2744.1	3144.6	2674.2
32.5°	3055.2	3024.7	2982.3	2822.1	2718.2	2662.7	2655.5	2843.7	3248.8	2729.3
35°	3463.3	3423.4	3363.3	3156.0	3024.7	2911.1	2852.2	2987.4	3391.7	2812.3
37.5°	3883.7	3838.8	3783.7	3537.0	3375.6	3208.2	3092.0	3182.3	3581.9	2925.1
40°	4271.5	4221.0	4169.8	3950.2	3776.9	3575.2	3385.7	3429.0	3814.6	3059.8
42.5°	4500.3	4463.0	4443.5	4324.9	4190.9	3986.3	3751.0	3721.4	4076.1	3214.9
45°	4490.1	4474.9	4535.1	4584.2	4552.4	4438.9	4179.1	4044.7	4338.4	3349.3
47.5°	4250.3	4260.4	4394.8	4671.1	4792.7	4852.1	4666.4	4362.2	4566.4	3449.7
50°	3597.6	3606.1	3917.2	4513.0	4854.6	5189.0	5150.0	4672.0	4743.2	3511.2
52.5°	3081.0	3086.5	3220.0	4044.3	4650.3	5358.5	5585.7	4964.0	4872.4	3528.1
55°	2320.7	2339.8	2489.4	3173.0	4118.9	5224.2	5851.0	5264.9	4954.2	3529.8
57.5°	1355.7	1376.5	1561.3	2153.7	3201.4	4755.9	5891.2	5531.8	5009.7	3516.3
60°	664.1	673.0	753.5	1132.0	1974.1	3853.6	5567.4	5661.1	5040.7	3509.1
62.5°	447.5	446.3	449.7	558.6	972.6	2475.8	4892.8	5434.8	5024.1	3481.5
65°	384.8	380.1	367.4	392.0	503.9	1132.4	3780.3	4759.3	4898.3	3412.4
67.5°	332.7	333.1	333.5	325.9	359.8	522.5	2310.1	3748.9	4446.5	3085.3
70°	275.5	279.3	281.0	281.0	293.3	342.9	986.2	2569.5	3507.4	2419.0
72.5°	250.9	242.8	243.7	239.4	239.4	261.1	397.1	1456.6	2209.7	1360.8
75°	204.7	209.8	210.6	207.7	197.9	199.2	235.6	611.1	945.5	564.5
77.5°	176.7	176.7	178.4	176.3	168.7	149.2	157.2	236.9	321.7	231.4
80°	142.0	141.5	148.8	153.0	141.1	110.2	100.4	131.0	142.8	101.7
82.5°	69.1	73.3	102.1	116.5	107.2	79.7	61.5	81.4	76.3	44.9
85°	40.3	38.1	45.8	64.8	61.5	44.1	29.7	42.4	39.8	22.9
87.5°	12.7	11.9	9.3	22.0	17.8	12.3	8.1	12.3	11.0	5.1
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°
2054.2	0°	2054.2	2054.2	2054.2	2054.2	2054.2	2054.2	2054.2	2054.2	2054.2	2054.2
2060.9	2.5°	2030.8	1980.8	1931.3	1885.9	1858.4	1840.6	1822.8	1802.8	1795.2	1783.8
2066.4	5°	2010.5	1913.9	1827.8	1753.7	1686.3	1633.3	1579.9	1536.7	1517.2	1530.3
2083.8	7.5°	1998.6	1858.8	1726.1	1590.1	1459.1	1354.5	1263.3	1199.4	1170.5	1177.7
2100.8	10°	1988.0	1796.5	1594.3	1379.5	1191.3	1061.6	968.4	919.6	901.4	905.2
2123.7	12.5°	1978.3	1726.6	1435.4	1152.7	952.7	867.1	840.4	840.8	844.2	846.7
2160.1	15°	1976.6	1642.2	1257.8	954.4	823.9	818.4	847.2	865.4	875.1	878.1
2190.6	17.5°	1974.1	1541.4	1076.9	819.2	792.5	829.8	856.5	868.4	876.0	876.4
2220.3	20°	1963.9	1413.4	909.9	754.8	785.7	817.9	834.5	843.8	850.1	852.3
2242.7	22.5°	1932.5	1271.0	779.8	726.0	758.6	784.5	803.9	814.5	818.4	820.9
2247.0	25°	1876.2	1111.6	689.9	698.4	720.9	753.5	769.2	771.3	770.0	773.9
2236.4	27.5°	1802.4	940.8	634.0	661.1	689.9	717.9	726.4	725.1	722.6	726.8
2218.2	30°	1713.4	787.4	598.4	619.2	658.6	684.0	691.6	688.7	683.6	688.2
2208.8	32.5°	1619.3	662.0	569.2	589.9	632.7	657.7	665.4	662.4	658.6	662.4
2219.4	35°	1531.6	574.2	542.0	570.4	612.4	637.0	646.7	647.1	647.1	651.8
2247.4	37.5°	1451.1	523.0	519.6	558.1	598.4	620.4	634.4	635.3	617.1	618.3
2294.9	40°	1376.5	501.4	509.4	550.1	584.8	606.0	606.9	559.4	525.9	525.1
2349.1	42.5°	1315.5	497.1	512.4	549.2	575.1	575.9	516.2	479.3	470.0	470.4
2399.1	45°	1258.3	495.8	519.2	549.2	560.7	497.5	457.3	447.5	448.4	451.8
2421.6	47.5°	1194.3	490.8	520.4	541.6	519.2	442.4	430.6	426.3	424.6	425.5
2416.5	50°	1124.3	472.5	504.3	526.4	448.0	418.7	403.9	402.6	404.7	406.0
2388.1	52.5°	1050.6	442.9	476.8	498.8	415.3	397.9	381.4	384.4	393.7	396.7
2358.4	55°	1002.3	408.1	440.3	443.7	392.4	378.5	364.5	371.2	388.6	394.1
2340.6	57.5°	989.6	371.2	398.8	395.0	363.2	361.5	353.0	359.0	381.0	389.0
2339.8	60°	985.8	338.2	358.1	355.1	334.8	342.9	340.7	343.7	351.3	353.9
2331.3	62.5°	956.1	311.9	321.7	317.4	309.4	323.4	328.4	322.1	328.0	331.0
2273.3	65°	880.7	290.7	286.1	283.1	286.5	299.2	309.4	296.7	302.2	310.6
2049.5	67.5°	756.1	261.9	249.2	252.6	263.2	270.0	283.1	268.7	273.4	287.8
1650.7	70°	611.5	225.5	214.0	223.8	233.9	247.9	250.0	240.3	251.3	267.4
1007.4	72.5°	432.7	188.6	180.5	200.5	203.8	222.1	217.4	212.7	228.0	233.5
498.0	75°	300.0	152.1	147.5	162.7	175.0	190.7	187.3	192.8	225.0	227.6
248.8	77.5°	189.9	118.2	115.3	125.0	142.0	159.3	164.9	227.6	384.4	399.6
129.3	80°	110.2	88.2	84.8	92.4	107.2	123.3	158.9	279.3	253.4	250.5
58.1	82.5°	61.5	60.6	56.4	58.5	71.6	89.0	224.6	196.6	159.8	164.9
23.3	85°	28.8	35.6	30.5	29.2	40.3	104.3	150.0	112.3	74.6	72.9
5.1	87.5°	7.6	6.8	6.8	7.6	17.0	89.8	59.8	47.9	28.4	27.5
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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