

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: P945757

Luminaire Tested: **GALN-SB1C-840-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945757
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-840-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7288 lumens
Efficiency: N/A
Efficacy: 134.0 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

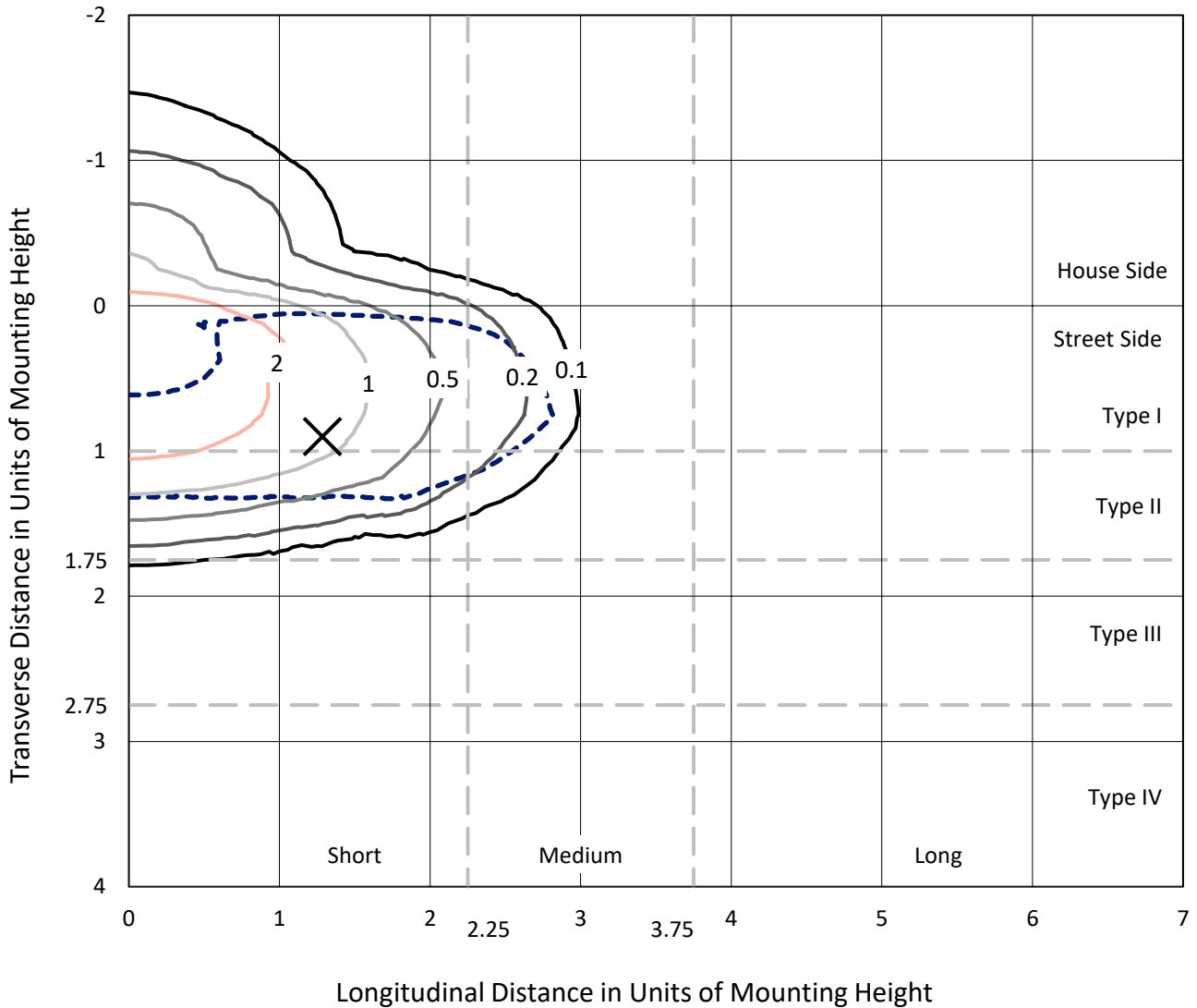
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

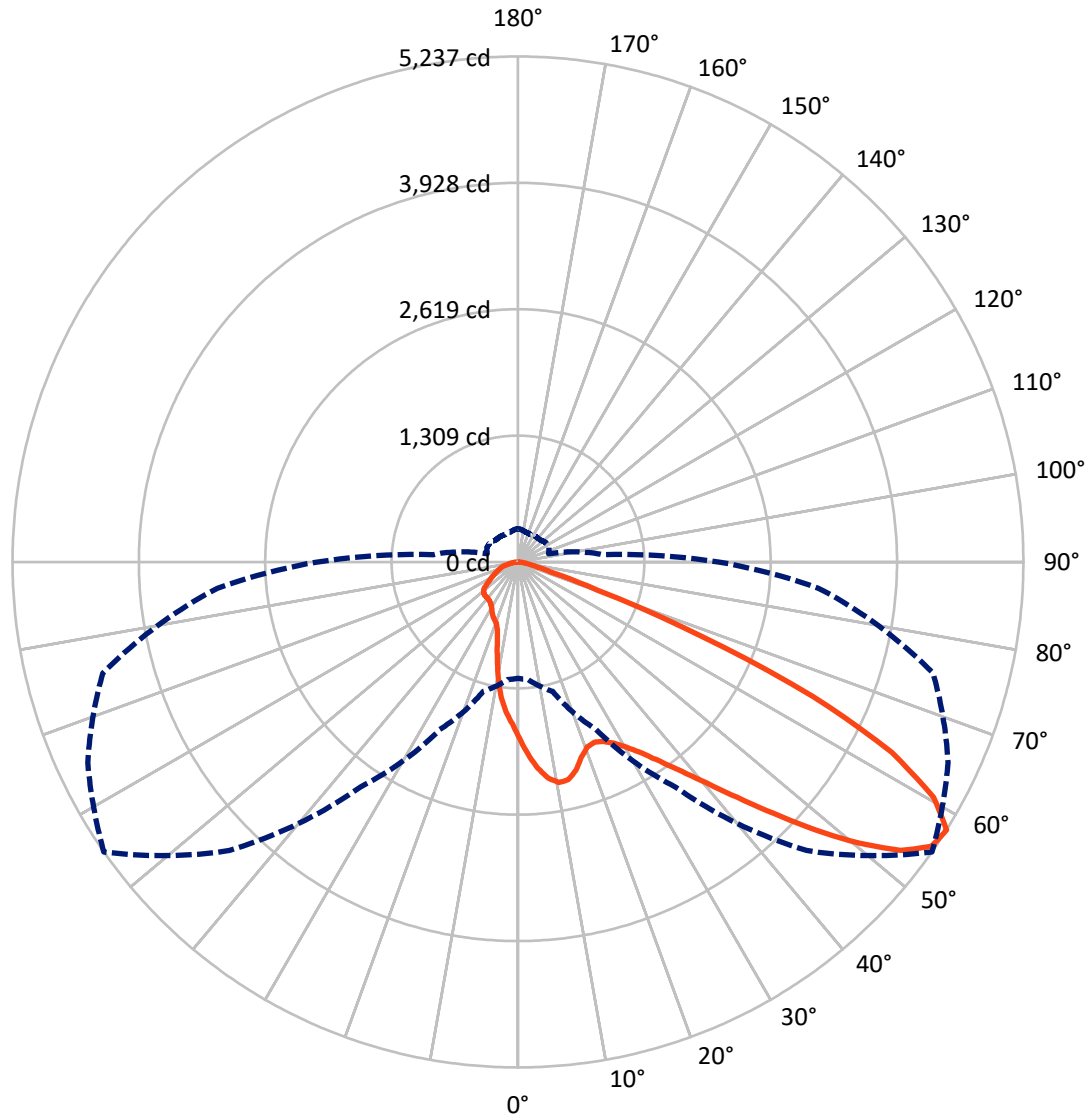
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	1318.7	0.0	1318.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5969.3	0.0	5969.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	7288.0	0.0	7288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	2.3
10°-20°	427.7	5.9
20°-30°	682.5	9.4
30°-40°	1080.6	14.8
40°-50°	1653.9	22.7
50°-60°	1771.5	24.3
60°-70°	1114.5	15.3
70°-80°	329.6	4.5
80°-90°	58.3	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°	7288.0	100.0
0°-180°	7288.0	100.0

Coefficient of Utilization



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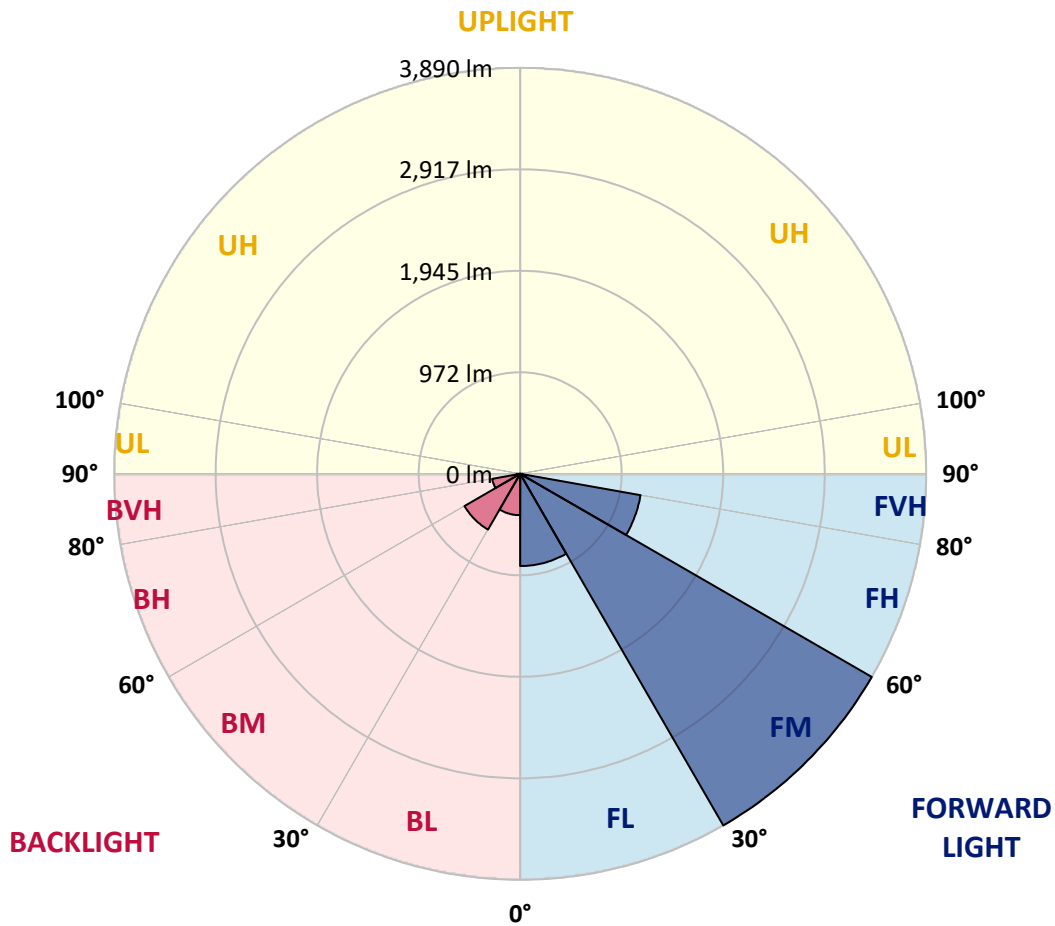
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	883.3	12.1			
FM (30°-60°)	3889.7	53.4			
FH (60°-80°)	1171.7	16.1			G1/1800
FVH (80°-90°)	24.6	0.3			G1/100
BL (0°-30°)	396.4	5.4	B1/500		
BM (30°-60°)	616.4	8.5	B1/1000		
BH (60°-80°)	272.3	3.7	B1/500		G1/500
BVH (80°-90°)	33.7	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°	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1
2.5°	2095.1	2093.6	2101.9	2073.7	2054.5	2028.5	1994.2	1950.5	1903.4	1853.6
5°	2283.9	2270.7	2279.4	2258.3	2237.2	2198.0	2147.1	2075.9	1988.9	1889.8
7.5°	2254.1	2245.1	2267.3	2286.2	2302.0	2297.1	2259.8	2185.2	2072.9	1929.0
10°	2014.1	2004.0	2035.2	2100.4	2196.1	2279.4	2324.6	2278.2	2158.8	1971.9
12.5°	1802.4	1797.5	1818.2	1871.0	1977.2	2137.0	2316.3	2359.6	2248.1	2022.8
15°	1712.0	1706.0	1719.1	1745.9	1813.7	1962.5	2240.9	2415.4	2335.9	2081.6
17.5°	1692.0	1685.2	1690.9	1704.8	1748.5	1861.9	2127.2	2442.9	2427.4	2147.1
20°	1728.9	1723.3	1724.0	1723.3	1753.8	1843.8	2048.0	2432.3	2507.3	2207.4
22.5°	1818.2	1808.8	1809.2	1789.2	1805.8	1875.5	2027.3	2404.1	2578.5	2260.2
25°	1963.7	1946.7	1950.1	1899.2	1894.7	1946.3	2059.7	2382.2	2649.3	2302.4
27.5°	2162.6	2143.4	2133.2	2057.5	2021.3	2046.9	2125.7	2389.8	2716.4	2338.9
30°	2411.2	2387.9	2367.2	2259.8	2194.2	2184.8	2228.1	2439.5	2795.5	2377.3
32.5°	2716.0	2688.9	2651.2	2508.8	2416.5	2367.2	2360.8	2528.0	2888.2	2426.3
35°	3078.8	3043.4	2989.9	2805.7	2688.9	2587.9	2535.6	2655.8	3015.2	2500.2
37.5°	3452.6	3412.7	3363.7	3144.4	3000.9	2852.0	2748.8	2829.1	3184.3	2600.4
40°	3797.3	3752.5	3706.9	3511.7	3357.6	3178.3	3009.9	3048.3	3391.2	2720.2
42.5°	4000.8	3967.6	3950.3	3844.8	3725.7	3543.8	3334.7	3308.3	3623.6	2858.1
45°	3991.7	3978.2	4031.7	4075.4	4047.1	3946.1	3715.2	3595.8	3856.9	2977.5
47.5°	3778.5	3787.5	3907.0	4152.6	4260.7	4313.5	4148.5	3877.9	4059.5	3066.8
50°	3198.3	3205.8	3482.4	4012.1	4315.7	4613.0	4578.3	4153.4	4216.7	3121.4
52.5°	2739.0	2743.9	2862.6	3595.4	4134.1	4763.7	4965.6	4412.9	4331.6	3136.5
55°	2063.1	2080.1	2213.1	2820.8	3661.7	4644.3	5201.5	4680.4	4404.3	3138.0
57.5°	1205.2	1223.7	1388.0	1914.7	2846.0	4228.0	5237.3	4917.8	4453.6	3125.9
60°	590.4	598.3	669.9	1006.3	1754.9	3425.8	4949.4	5032.7	4481.1	3119.5
62.5°	397.9	396.7	399.7	496.6	864.7	2201.0	4349.6	4831.5	4466.4	3095.1
65°	342.1	338.0	326.6	348.5	448.0	1006.7	3360.7	4231.0	4354.5	3033.6
67.5°	295.8	296.1	296.5	289.7	319.9	464.5	2053.7	3332.8	3952.9	2742.8
70°	244.9	248.3	249.8	249.8	260.7	304.8	876.7	2284.3	3118.0	2150.5
72.5°	223.0	215.9	216.6	212.9	212.9	232.1	353.0	1294.9	1964.4	1209.8
75°	182.0	186.5	187.2	184.6	175.9	177.1	209.5	543.3	840.5	501.8
77.5°	157.1	157.1	158.6	156.7	149.9	132.6	139.8	210.6	286.0	205.7
80°	126.2	125.8	132.2	136.0	125.5	98.0	89.3	116.4	127.0	90.4
82.5°	61.4	65.2	90.8	103.6	95.3	70.8	54.6	72.3	67.8	39.9
85°	35.8	33.9	40.7	57.6	54.6	39.2	26.4	37.7	35.4	20.3
87.5°	11.3	10.5	8.3	19.6	15.8	10.9	7.2	10.9	9.8	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°
1826.1	0°	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1
1832.2	2.5°	1805.4	1761.0	1716.9	1676.6	1652.1	1636.3	1620.4	1602.7	1595.9	1585.8
1837.1	5°	1787.3	1701.4	1624.9	1559.0	1499.1	1452.0	1404.5	1366.1	1348.8	1360.5
1852.5	7.5°	1776.8	1652.5	1534.5	1413.6	1297.2	1204.1	1123.1	1066.2	1040.6	1047.0
1867.6	10°	1767.4	1597.1	1417.4	1226.3	1059.1	943.8	860.9	817.6	801.4	804.8
1887.9	12.5°	1758.7	1534.9	1276.1	1024.8	846.9	770.8	747.1	747.5	750.5	752.8
1920.3	15°	1757.2	1459.9	1118.2	848.5	732.4	727.5	753.1	769.3	778.0	780.6
1947.5	17.5°	1754.9	1370.3	957.3	728.3	704.5	737.7	761.4	772.0	778.8	779.1
1973.8	20°	1745.9	1256.5	808.9	671.0	698.5	727.1	741.8	750.1	755.8	757.7
1993.8	22.5°	1718.0	1129.9	693.2	645.4	674.4	697.4	714.7	724.1	727.5	729.8
1997.6	25°	1667.9	988.2	613.4	620.9	640.9	669.9	683.8	685.7	684.6	688.0
1988.1	27.5°	1602.3	836.4	563.6	587.7	613.4	638.2	645.8	644.6	642.4	646.1
1971.9	30°	1523.2	700.0	532.0	550.4	585.5	608.1	614.9	612.2	607.7	611.9
1963.7	32.5°	1439.6	588.5	506.0	524.4	562.5	584.7	591.5	588.9	585.5	588.9
1973.1	35°	1361.6	510.5	481.9	507.1	544.4	566.3	574.9	575.3	575.3	579.5
1997.9	37.5°	1290.0	464.9	461.9	496.2	532.0	551.6	564.0	564.8	548.6	549.7
2040.1	40°	1223.7	445.7	452.9	489.0	519.9	538.8	539.5	497.3	467.6	466.8
2088.4	42.5°	1169.5	441.9	455.5	488.3	511.3	512.0	458.9	426.1	417.8	418.2
2132.8	45°	1118.6	440.8	461.5	488.3	498.4	442.3	406.5	397.9	398.6	401.6
2152.8	47.5°	1061.7	436.3	462.7	481.5	461.5	393.3	382.8	379.0	377.5	378.3
2148.3	50°	999.5	420.1	448.3	467.9	398.2	372.2	359.0	357.9	359.8	360.9
2123.0	52.5°	934.0	393.7	423.9	443.4	369.2	353.8	339.1	341.7	350.0	352.6
2096.6	55°	891.0	362.8	391.4	394.5	348.9	336.4	324.0	330.0	345.5	350.4
2080.8	57.5°	879.7	330.0	354.5	351.1	322.9	321.4	313.8	319.1	338.7	345.9
2080.1	60°	876.3	300.7	318.4	315.7	297.6	304.8	302.9	305.5	312.3	314.6
2072.5	62.5°	850.0	277.3	286.0	282.2	275.0	287.5	292.0	286.3	291.6	294.2
2020.9	65°	782.9	258.5	254.3	251.7	254.7	266.0	275.0	263.7	268.6	276.2
1822.0	67.5°	672.1	232.8	221.5	224.5	234.0	240.0	251.7	238.9	243.0	255.8
1467.5	70°	543.7	200.4	190.3	198.9	208.0	220.4	222.3	213.6	223.4	237.7
895.5	72.5°	384.7	167.7	160.5	178.2	181.2	197.4	193.3	189.1	202.7	207.6
442.7	75°	266.7	135.3	131.1	144.7	155.6	169.5	166.5	171.4	200.1	202.3
221.2	77.5°	168.8	105.1	102.5	111.1	126.2	141.7	146.6	202.3	341.7	355.3
114.9	80°	98.0	78.4	75.4	82.1	95.3	109.6	141.3	248.3	225.3	222.7
51.6	82.5°	54.6	53.9	50.1	52.0	63.7	79.1	199.7	174.8	142.0	146.6
20.7	85°	25.6	31.6	27.1	26.0	35.8	92.7	133.4	99.8	66.3	64.8
4.5	87.5°	6.8	6.0	6.0	6.8	15.1	79.9	53.1	42.6	25.2	24.5
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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