

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: P945841

Luminaire Tested: **GALN-SB1C-935-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945841
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-935-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5300 lumens
Efficiency: N/A
Efficacy: 97.4 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

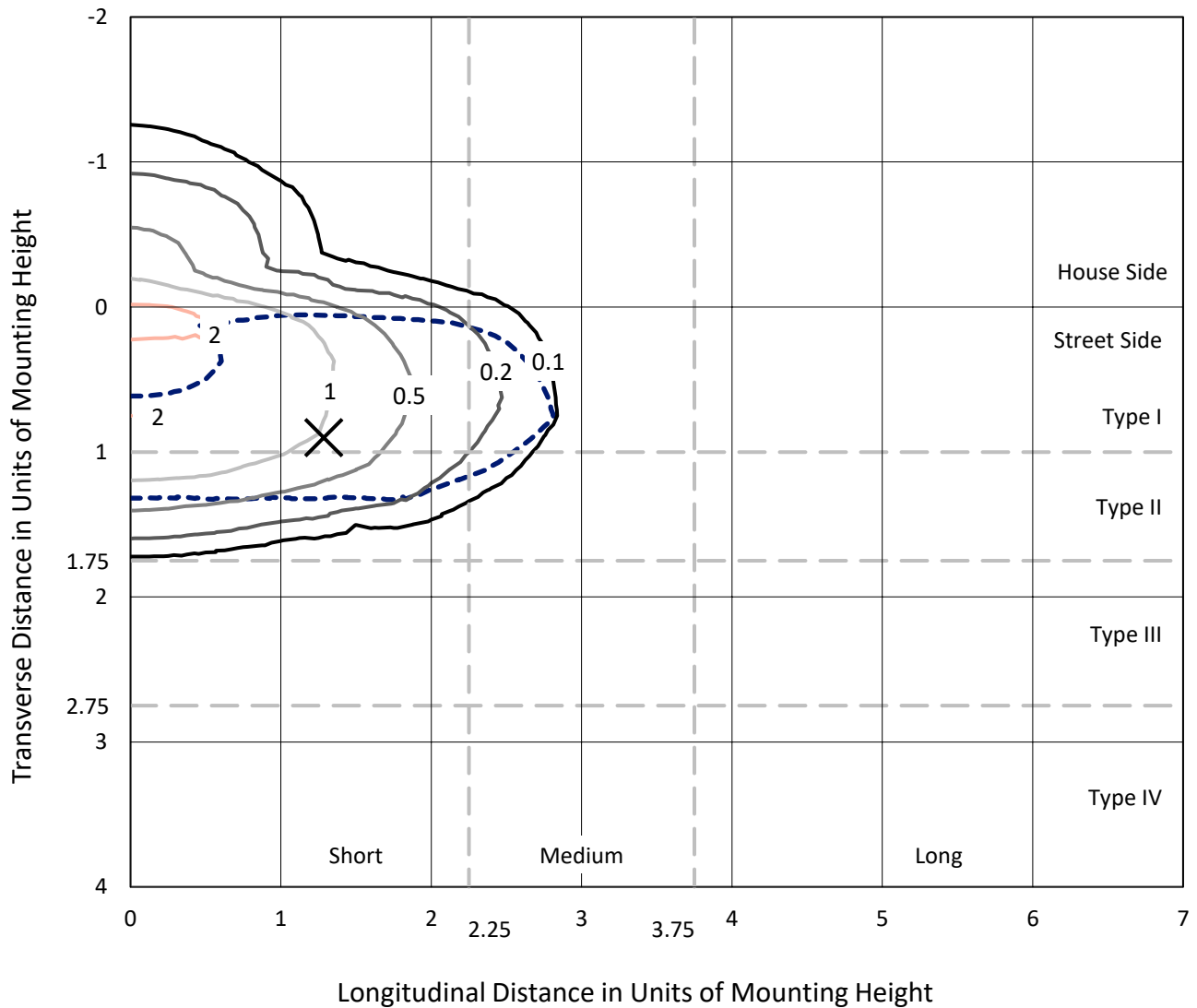
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

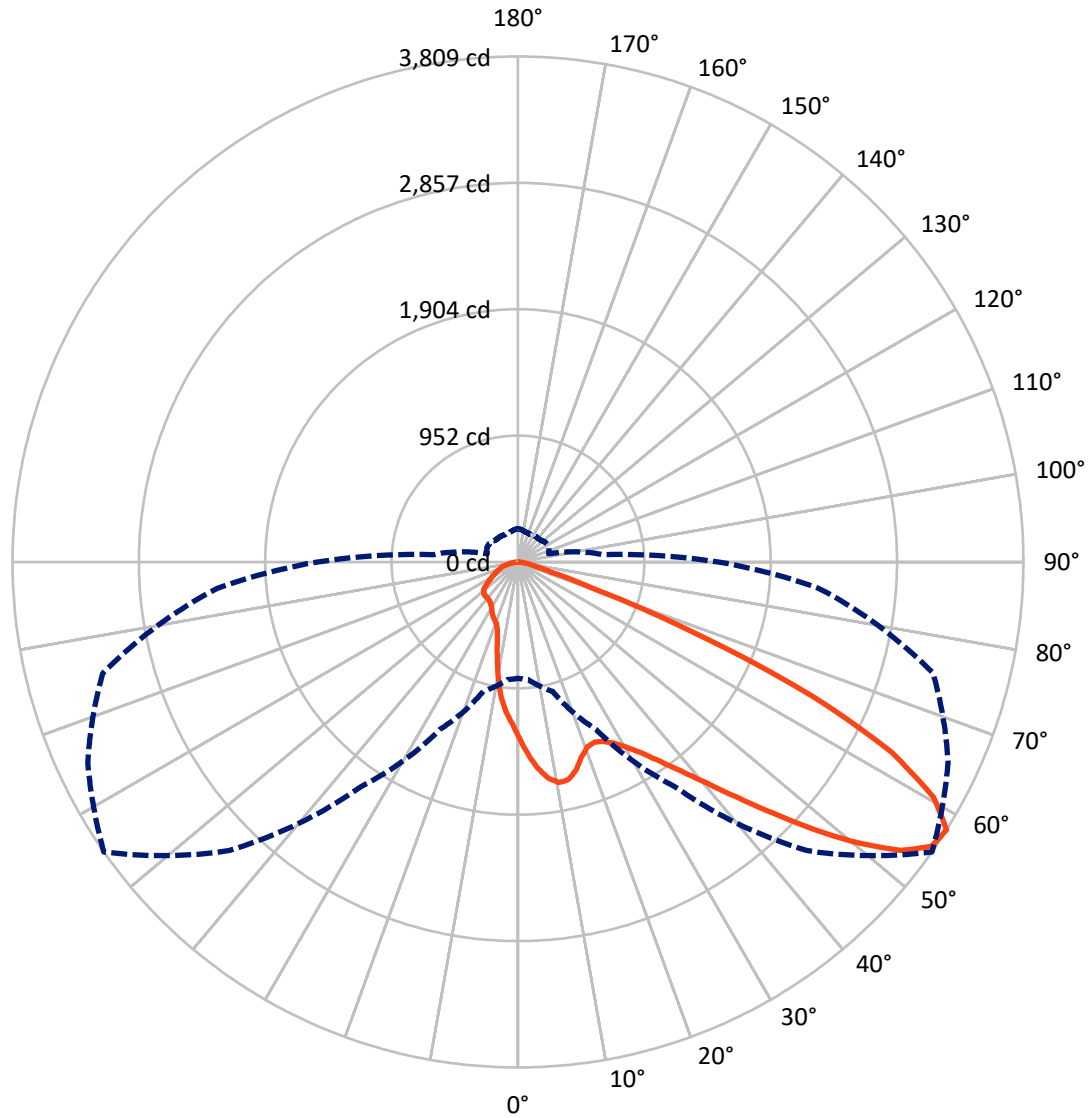
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	959.0	0.0	959.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4341.0	0.0	4341.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	5300.0	0.0	5300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	2.3
10°-20°	311.0	5.9
20°-30°	496.3	9.4
30°-40°	785.8	14.8
40°-50°	1202.8	22.7
50°-60°	1288.3	24.3
60°-70°	810.5	15.3
70°-80°	239.7	4.5
80°-90°	42.4	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°	5300.0	100.0
0°-180°	5300.0	100.0

Coefficient of Utilization



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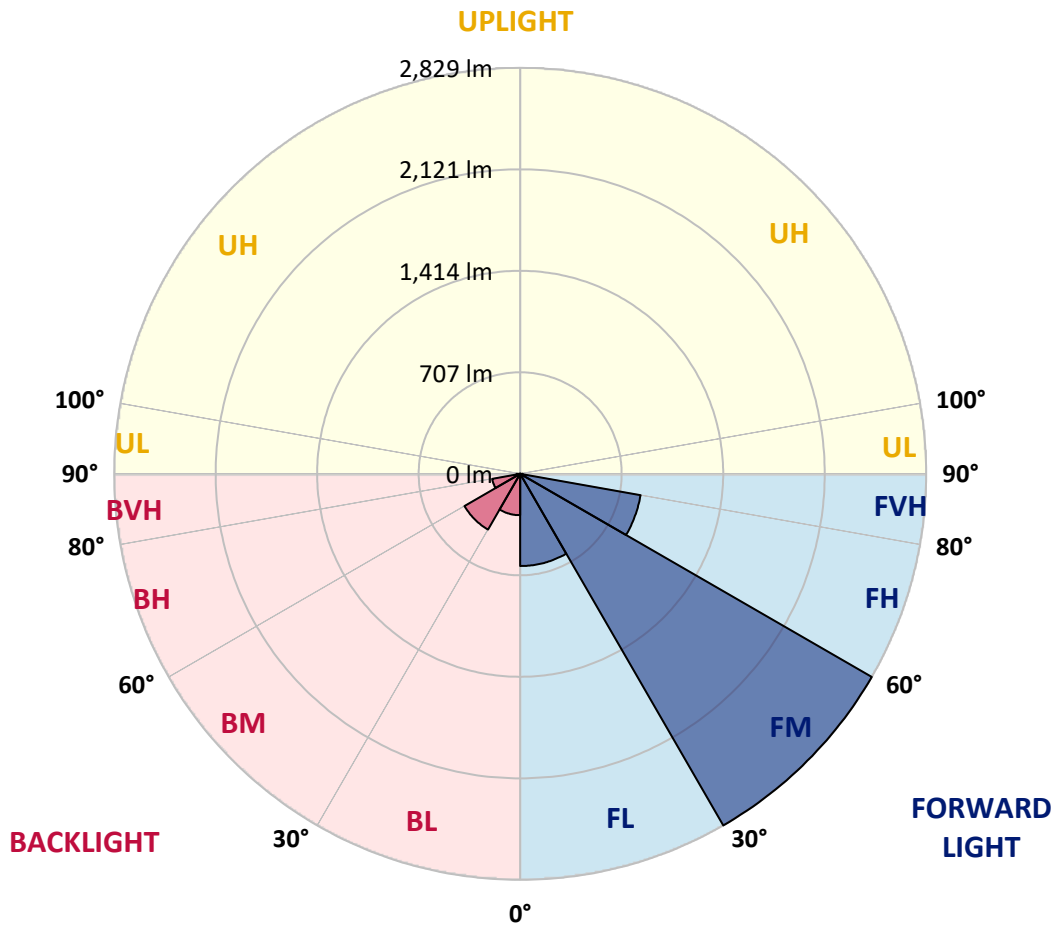
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	642.4	12.1			
FM (30°-60°)	2828.6	53.4			
FH (60°-80°)	852.1	16.1			G1/1800
FVH (80°-90°)	17.9	0.3			G1/100
BL (0°-30°)	288.2	5.4	B1/500		
BM (30°-60°)	448.2	8.5	B1/1000		
BH (60°-80°)	198.1	3.7	B1/500		G1/500
BVH (80°-90°)	24.5	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°	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0
2.5°	1523.6	1522.5	1528.6	1508.0	1494.0	1475.1	1450.2	1418.4	1384.2	1348.0
5°	1660.9	1651.3	1657.6	1642.3	1626.9	1598.4	1561.4	1509.7	1446.4	1374.3
7.5°	1639.3	1632.7	1648.8	1662.5	1674.1	1670.5	1643.4	1589.1	1507.5	1402.8
10°	1464.7	1457.3	1480.1	1527.5	1597.1	1657.6	1690.5	1656.8	1569.9	1434.0
12.5°	1310.7	1307.2	1322.3	1360.6	1437.9	1554.0	1684.5	1716.0	1634.9	1471.0
15°	1245.0	1240.6	1250.2	1269.6	1319.0	1427.2	1629.7	1756.5	1698.7	1513.8
17.5°	1230.5	1225.5	1229.6	1239.8	1271.6	1354.0	1546.9	1776.5	1765.3	1561.4
20°	1257.3	1253.2	1253.8	1253.2	1275.4	1340.9	1489.4	1768.9	1823.4	1605.3
22.5°	1322.3	1315.4	1315.7	1301.2	1313.2	1363.9	1474.3	1748.3	1875.2	1643.6
25°	1428.0	1415.7	1418.1	1381.2	1377.9	1415.4	1497.9	1732.4	1926.7	1674.3
27.5°	1572.7	1558.7	1551.3	1496.2	1469.9	1488.6	1545.8	1737.9	1975.4	1700.9
30°	1753.5	1736.5	1721.5	1643.4	1595.7	1588.8	1620.4	1774.1	2033.0	1728.8
32.5°	1975.2	1955.4	1928.0	1824.5	1757.3	1721.5	1716.8	1838.4	2100.4	1764.5
35°	2239.0	2213.3	2174.3	2040.4	1955.4	1882.0	1843.9	1931.3	2192.7	1818.2
37.5°	2510.8	2481.8	2446.1	2286.7	2182.3	2074.1	1999.0	2057.4	2315.7	1891.0
40°	2761.5	2728.9	2695.7	2553.8	2441.8	2311.3	2188.9	2216.8	2466.1	1978.2
42.5°	2909.5	2885.3	2872.7	2796.0	2709.4	2577.1	2425.0	2405.9	2635.2	2078.5
45°	2902.9	2893.0	2931.9	2963.7	2943.2	2869.7	2701.8	2614.9	2804.8	2165.3
47.5°	2747.8	2754.4	2841.2	3019.9	3098.5	3136.9	3016.9	2820.1	2952.2	2230.2
50°	2325.9	2331.3	2532.4	2917.7	3138.5	3354.7	3329.5	3020.4	3066.4	2270.0
52.5°	1991.9	1995.4	2081.7	2614.6	3006.4	3464.3	3611.1	3209.2	3150.0	2280.9
55°	1500.3	1512.7	1609.4	2051.3	2662.9	3377.4	3782.6	3403.7	3202.9	2282.0
57.5°	876.5	889.9	1009.4	1392.4	2069.7	3074.7	3808.7	3576.3	3238.8	2273.3
60°	429.3	435.1	487.1	731.8	1276.2	2491.4	3599.3	3659.9	3258.8	2268.6
62.5°	289.3	288.5	290.7	361.1	628.8	1600.6	3163.2	3513.6	3248.1	2250.8
65°	248.8	245.8	237.5	253.4	325.8	732.1	2444.0	3076.9	3166.7	2206.1
67.5°	215.1	215.4	215.6	210.7	232.6	337.8	1493.5	2423.7	2874.7	1994.6
70°	178.1	180.6	181.7	181.7	189.6	221.7	637.6	1661.2	2267.5	1563.9
72.5°	162.2	157.0	157.5	154.8	154.8	168.8	256.7	941.7	1428.6	879.8
75°	132.3	135.6	136.2	134.3	128.0	128.8	152.3	395.1	611.3	364.9
77.5°	114.3	114.3	115.3	114.0	109.0	96.4	101.6	153.2	208.0	149.6
80°	91.8	91.5	96.2	98.9	91.2	71.2	64.9	84.7	92.3	65.8
82.5°	44.7	47.4	66.0	75.3	69.3	51.5	39.7	52.6	49.3	29.0
85°	26.0	24.7	29.6	41.9	39.7	28.5	19.2	27.4	25.8	14.8
87.5°	8.2	7.7	6.0	14.2	11.5	7.9	5.2	7.9	7.1	3.3
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°
1328.0	0°	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0
1332.4	2.5°	1312.9	1280.6	1248.6	1219.2	1201.4	1189.9	1178.4	1165.5	1160.6	1153.2
1336.0	5°	1299.8	1237.3	1181.7	1133.8	1090.2	1055.9	1021.4	993.5	980.9	989.4
1347.2	7.5°	1292.1	1201.7	1115.9	1028.0	943.3	875.7	816.8	775.4	756.7	761.4
1358.1	10°	1285.3	1161.4	1030.7	891.8	770.2	686.3	626.1	594.5	582.8	585.2
1372.9	12.5°	1279.0	1116.2	928.0	745.2	615.9	560.6	543.3	543.6	545.8	547.4
1396.5	15°	1277.9	1061.7	813.2	617.0	532.6	529.1	547.7	559.5	565.8	567.7
1416.2	17.5°	1276.2	996.5	696.2	529.6	512.4	536.5	553.7	561.4	566.3	566.6
1435.4	20°	1269.6	913.7	588.2	488.0	508.0	528.8	539.5	545.5	549.6	551.0
1449.9	22.5°	1249.4	821.7	504.1	469.3	490.4	507.1	519.8	526.6	529.1	530.7
1452.7	25°	1212.9	718.7	446.0	451.5	466.0	487.1	497.3	498.7	497.8	500.3
1445.8	27.5°	1165.3	608.2	409.9	427.4	446.0	464.1	469.6	468.8	467.1	469.9
1434.0	30°	1107.7	509.1	386.9	400.3	425.8	442.2	447.1	445.2	441.9	445.0
1428.0	32.5°	1046.9	428.0	368.0	381.4	409.1	425.2	430.2	428.2	425.8	428.2
1434.9	35°	990.2	371.3	350.4	368.8	395.9	411.8	418.1	418.4	418.4	421.4
1452.9	37.5°	938.1	338.1	335.9	360.8	386.9	401.1	410.2	410.7	398.9	399.7
1483.6	40°	889.9	324.1	329.3	355.6	378.1	391.8	392.3	361.7	340.0	339.5
1518.7	42.5°	850.5	321.4	331.2	355.1	371.8	372.3	333.7	309.9	303.8	304.1
1551.0	45°	813.5	320.6	335.6	355.1	362.5	321.7	295.6	289.3	289.9	292.1
1565.6	47.5°	772.1	317.3	336.5	350.2	335.6	286.0	278.4	275.6	274.5	275.1
1562.3	50°	726.9	305.5	326.0	340.3	289.6	270.7	261.1	260.3	261.7	262.5
1543.9	52.5°	679.2	286.3	308.2	322.5	268.5	257.3	246.6	248.5	254.5	256.5
1524.7	55°	648.0	263.8	284.7	286.9	253.7	244.7	235.6	240.0	251.2	254.8
1513.2	57.5°	639.8	240.0	257.8	255.4	234.8	233.7	228.2	232.1	246.3	251.5
1512.7	60°	637.3	218.6	231.5	229.6	216.4	221.7	220.3	222.2	227.1	228.8
1507.2	62.5°	618.1	201.7	208.0	205.2	200.0	209.1	212.3	208.2	212.1	214.0
1469.7	65°	569.3	188.0	184.9	183.0	185.2	193.4	200.0	191.8	195.4	200.8
1325.0	67.5°	488.8	169.3	161.1	163.3	170.1	174.5	183.0	173.7	176.7	186.0
1067.2	70°	395.4	145.8	138.4	144.7	151.2	160.3	161.7	155.3	162.5	172.9
651.3	72.5°	279.7	121.9	116.7	129.6	131.8	143.6	140.6	137.5	147.4	151.0
321.9	75°	194.0	98.4	95.3	105.2	113.2	123.3	121.1	124.7	145.5	147.1
160.8	77.5°	122.7	76.4	74.5	80.8	91.8	103.0	106.6	147.1	248.5	258.4
83.6	80°	71.2	57.0	54.8	59.7	69.3	79.7	102.7	180.6	163.8	161.9
37.5	82.5°	39.7	39.2	36.4	37.8	46.3	57.5	145.2	127.1	103.3	106.6
15.1	85°	18.6	23.0	19.7	18.9	26.0	67.4	97.0	72.6	48.2	47.1
3.3	87.5°	4.9	4.4	4.4	4.9	11.0	58.1	38.6	31.0	18.4	17.8
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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