

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: P946513

Luminaire Tested: **GALN-SB2A-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946513
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-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5553 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

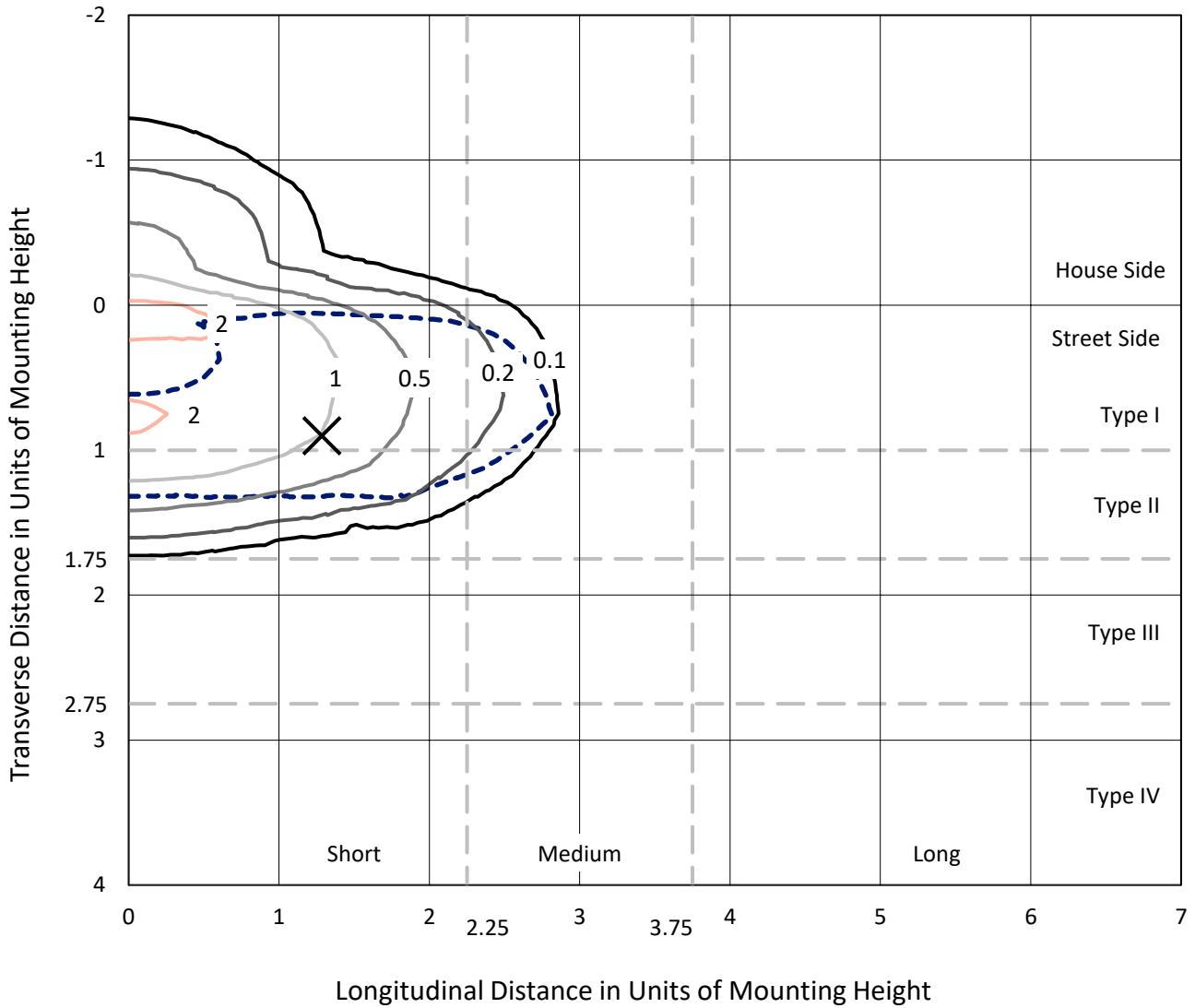
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

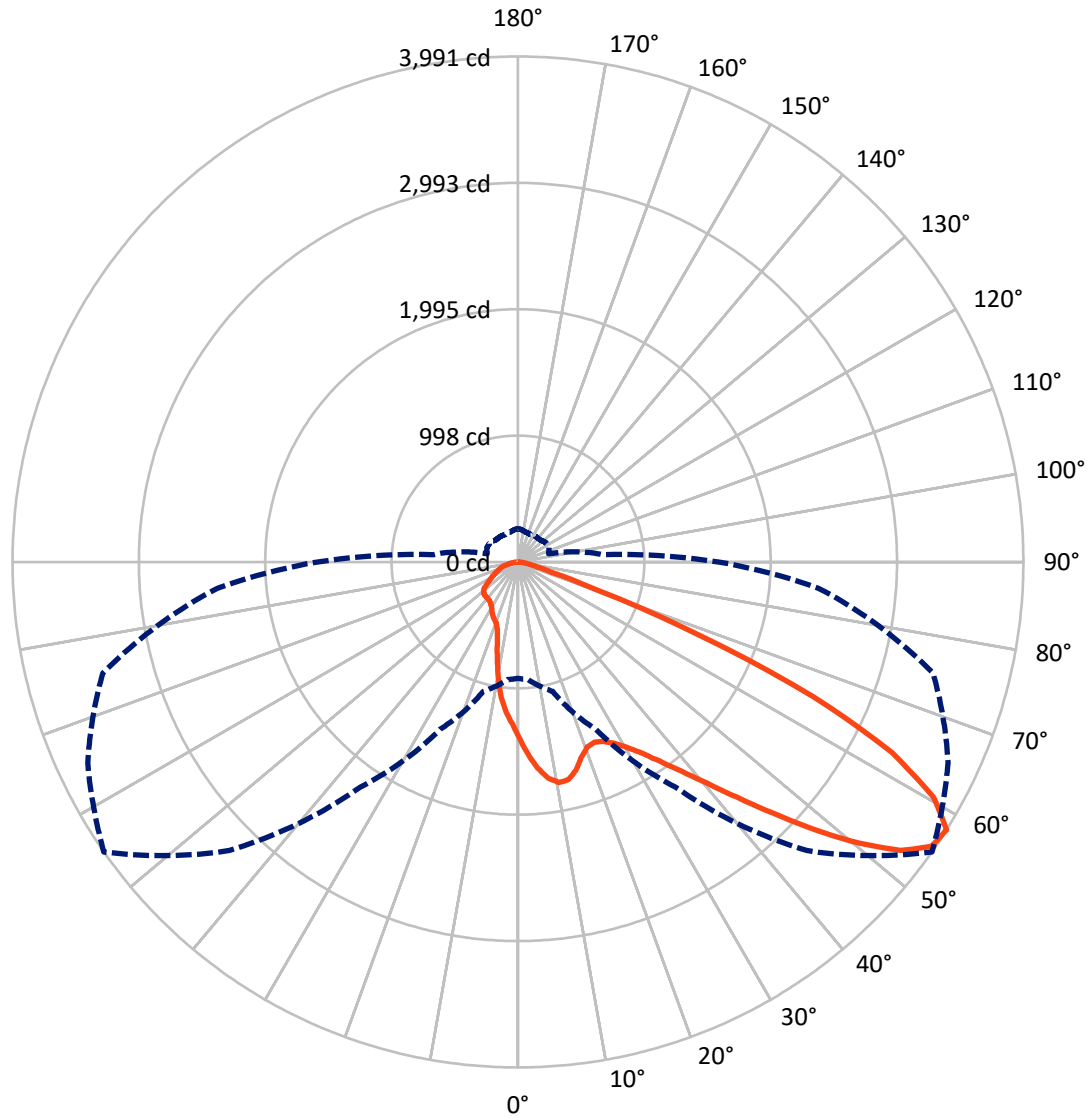
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	1004.8	0.0	1004.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4548.2	0.0	4548.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	5553.0	0.0	5553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	2.3
10°-20°	325.9	5.9
20°-30°	520.0	9.4
30°-40°	823.3	14.8
40°-50°	1260.2	22.7
50°-60°	1349.8	24.3
60°-70°	849.2	15.3
70°-80°	251.1	4.5
80°-90°	44.4	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°	5553.0	100.0
0°-180°	5553.0	100.0

Coefficient of Utilization



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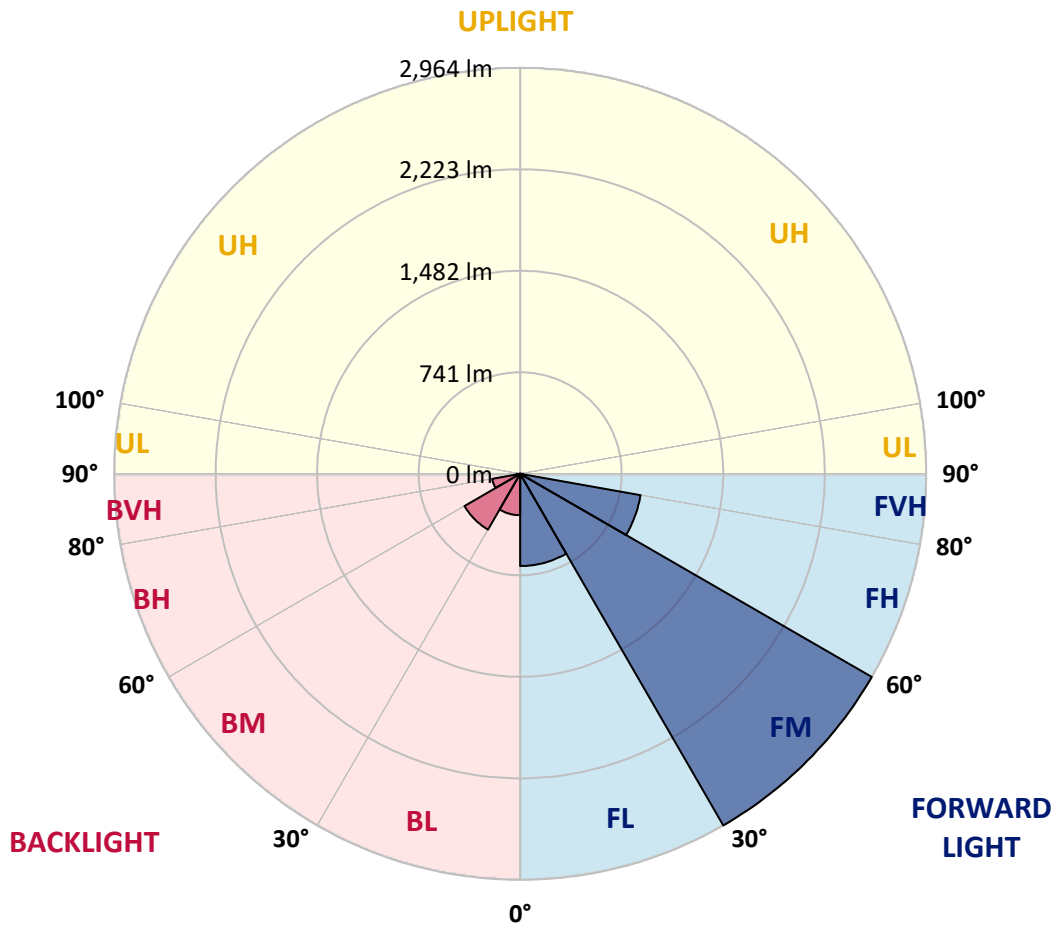
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	673.0	12.1			
FM (30°-60°)	2963.7	53.4			
FH (60°-80°)	892.8	16.1			G1/1800
FVH (80°-90°)	18.8	0.3			G1/100
BL (0°-30°)	302.0	5.4	B1/500		
BM (30°-60°)	469.6	8.5	B1/1000		
BH (60°-80°)	207.5	3.7	B1/500		G1/500
BVH (80°-90°)	25.6	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°	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4
2.5°	1596.4	1595.2	1601.5	1580.0	1565.4	1545.6	1519.4	1486.1	1450.2	1412.4
5°	1740.2	1730.1	1736.7	1720.7	1704.6	1674.7	1636.0	1581.7	1515.4	1439.9
7.5°	1717.5	1710.6	1727.6	1741.9	1754.0	1750.2	1721.8	1665.0	1579.4	1469.8
10°	1534.6	1526.9	1550.7	1600.4	1673.3	1736.7	1771.2	1735.9	1644.9	1502.5
12.5°	1373.3	1369.6	1385.4	1425.6	1506.5	1628.2	1764.9	1797.9	1712.9	1541.2
15°	1304.4	1299.8	1309.9	1330.3	1381.9	1495.3	1707.5	1840.4	1779.8	1586.0
17.5°	1289.2	1284.0	1288.3	1299.0	1332.3	1418.7	1620.8	1861.3	1849.6	1636.0
20°	1317.3	1313.0	1313.6	1313.0	1336.3	1404.9	1560.5	1853.3	1910.4	1681.9
22.5°	1385.4	1378.2	1378.5	1363.3	1375.9	1429.0	1544.7	1831.8	1964.7	1722.1
25°	1496.2	1483.3	1485.8	1447.1	1443.6	1483.0	1569.4	1815.1	2018.6	1754.3
27.5°	1647.8	1633.1	1625.4	1567.7	1540.1	1559.6	1619.6	1820.9	2069.7	1782.1
30°	1837.2	1819.4	1803.6	1721.8	1671.9	1664.7	1697.7	1858.7	2130.0	1811.4
32.5°	2069.4	2048.8	2020.1	1911.6	1841.2	1803.6	1798.7	1926.2	2200.6	1848.7
35°	2345.9	2318.9	2278.1	2137.8	2048.8	1971.8	1931.9	2023.5	2297.4	1905.0
37.5°	2630.7	2600.2	2562.9	2395.8	2286.5	2173.1	2094.4	2155.6	2426.3	1981.3
40°	2893.3	2859.2	2824.4	2675.7	2558.3	2421.7	2293.4	2322.6	2583.9	2072.6
42.5°	3048.3	3023.1	3009.9	2929.5	2838.8	2700.1	2540.8	2520.7	2761.0	2177.7
45°	3041.4	3031.1	3071.9	3105.2	3083.6	3006.7	2830.7	2739.7	2938.7	2268.7
47.5°	2879.0	2885.9	2976.9	3164.0	3246.4	3286.6	3160.9	2954.8	3093.1	2336.7
50°	2436.9	2442.6	2653.3	3056.9	3288.3	3514.8	3488.4	3164.6	3212.8	2378.3
52.5°	2087.0	2090.7	2181.1	2739.5	3150.0	3629.6	3783.5	3362.4	3300.4	2389.8
55°	1572.0	1584.9	1686.2	2149.3	2790.0	3538.6	3963.2	3566.2	3355.8	2391.0
57.5°	918.3	932.4	1057.5	1458.9	2168.5	3221.4	3990.5	3747.1	3393.4	2381.8
60°	449.8	455.9	510.4	766.7	1337.1	2610.3	3771.2	3834.6	3414.3	2376.9
62.5°	303.1	302.3	304.6	378.4	658.8	1677.0	3314.2	3681.3	3403.1	2358.2
65°	260.7	257.5	248.9	265.5	341.3	767.0	2560.6	3223.7	3317.9	2311.4
67.5°	225.3	225.6	225.9	220.8	243.7	354.0	1564.8	2539.4	3011.9	2089.8
70°	186.6	189.2	190.3	190.3	198.6	232.2	668.0	1740.5	2375.7	1638.6
72.5°	169.9	164.5	165.1	162.2	162.2	176.8	269.0	986.6	1496.8	921.8
75°	138.7	142.1	142.7	140.7	134.1	134.9	159.6	413.9	640.4	382.4
77.5°	119.7	119.7	120.9	119.4	114.3	101.0	106.5	160.5	217.9	156.7
80°	96.2	95.9	100.8	103.6	95.6	74.6	68.0	88.7	96.7	68.9
82.5°	46.8	49.7	69.2	78.9	72.6	54.0	41.6	55.1	51.7	30.4
85°	27.3	25.8	31.0	43.9	41.6	29.9	20.1	28.7	27.0	15.5
87.5°	8.6	8.0	6.3	14.9	12.1	8.3	5.5	8.3	7.5	3.4
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°
1391.4	0°	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4
1396.0	2.5°	1375.6	1341.7	1308.2	1277.4	1258.8	1246.7	1234.7	1221.2	1216.0	1208.3
1399.7	5°	1361.8	1296.4	1238.1	1187.9	1142.2	1106.3	1070.2	1040.9	1027.7	1036.6
1411.5	7.5°	1353.8	1259.1	1169.2	1077.1	988.4	917.5	855.7	812.4	792.9	797.8
1423.0	10°	1346.6	1216.9	1079.9	934.4	806.9	719.1	655.9	622.9	610.6	613.2
1438.5	12.5°	1340.0	1169.5	972.3	780.8	645.3	587.3	569.2	569.5	571.8	573.6
1463.2	15°	1338.9	1112.4	852.0	646.5	558.1	554.3	573.8	586.2	592.8	594.8
1483.8	17.5°	1337.1	1044.1	729.4	554.9	536.8	562.1	580.2	588.2	593.4	593.6
1503.9	20°	1330.3	957.4	616.3	511.3	532.2	554.0	565.2	571.5	575.9	577.3
1519.1	22.5°	1309.0	860.9	528.2	491.7	513.8	531.4	544.6	551.7	554.3	556.0
1522.0	25°	1270.8	753.0	467.3	473.1	488.3	510.4	521.0	522.5	521.6	524.2
1514.8	27.5°	1220.9	637.3	429.4	447.8	467.3	486.3	492.0	491.2	489.4	492.3
1502.5	30°	1160.6	533.4	405.3	419.4	446.1	463.3	468.5	466.5	463.0	466.2
1496.2	32.5°	1096.9	448.4	385.5	399.6	428.6	445.5	450.7	448.7	446.1	448.7
1503.4	35°	1037.5	389.0	367.2	386.4	414.8	431.5	438.1	438.3	438.3	441.5
1522.3	37.5°	982.9	354.2	351.9	378.1	405.3	420.3	429.7	430.3	418.0	418.8
1554.5	40°	932.4	339.6	345.1	372.6	396.1	410.5	411.1	378.9	356.2	355.7
1591.2	42.5°	891.0	336.7	347.1	372.0	389.5	390.1	349.6	324.7	318.4	318.6
1625.1	45°	852.3	335.9	351.7	372.0	379.8	337.0	309.7	303.1	303.7	306.0
1640.3	47.5°	808.9	332.4	352.5	366.9	351.7	299.7	291.7	288.8	287.6	288.2
1636.8	50°	761.6	320.1	341.6	356.5	303.4	283.6	273.6	272.7	274.1	275.0
1617.6	52.5°	711.6	300.0	322.9	337.9	281.3	269.6	258.4	260.4	266.7	268.7
1597.5	55°	678.9	276.4	298.3	300.6	265.8	256.3	246.9	251.5	263.2	267.0
1585.5	57.5°	670.3	251.5	270.1	267.5	246.0	244.9	239.1	243.1	258.1	263.5
1584.9	60°	667.7	229.1	242.6	240.6	226.8	232.2	230.8	232.8	238.0	239.7
1579.1	62.5°	647.6	211.3	217.9	215.0	209.6	219.0	222.5	218.2	222.2	224.2
1539.8	65°	596.5	196.9	193.8	191.8	194.1	202.7	209.6	200.9	204.7	210.4
1388.2	67.5°	512.1	177.4	168.8	171.1	178.3	182.9	191.8	182.0	185.2	194.9
1118.1	70°	414.2	152.7	145.0	151.6	158.5	167.9	169.4	162.8	170.2	181.1
682.4	72.5°	293.1	127.7	122.3	135.8	138.1	150.4	147.3	144.1	154.4	158.2
337.3	75°	203.2	103.1	99.9	110.2	118.6	129.2	126.9	130.6	152.4	154.2
168.5	77.5°	128.6	80.1	78.1	84.7	96.2	107.9	111.7	154.2	260.4	270.7
87.6	80°	74.6	59.7	57.4	62.6	72.6	83.5	107.6	189.2	171.7	169.7
39.3	82.5°	41.6	41.1	38.2	39.6	48.5	60.3	152.1	133.2	108.2	111.7
15.8	85°	19.5	24.1	20.7	19.8	27.3	70.6	101.6	76.1	50.5	49.4
3.4	87.5°	5.2	4.6	4.6	5.2	11.5	60.9	40.5	32.4	19.2	18.7
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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