

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: P945862

Luminaire Tested: **GALN-SB1C-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945862
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-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5521 lumens
Efficiency: N/A
Efficacy: 101.5 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

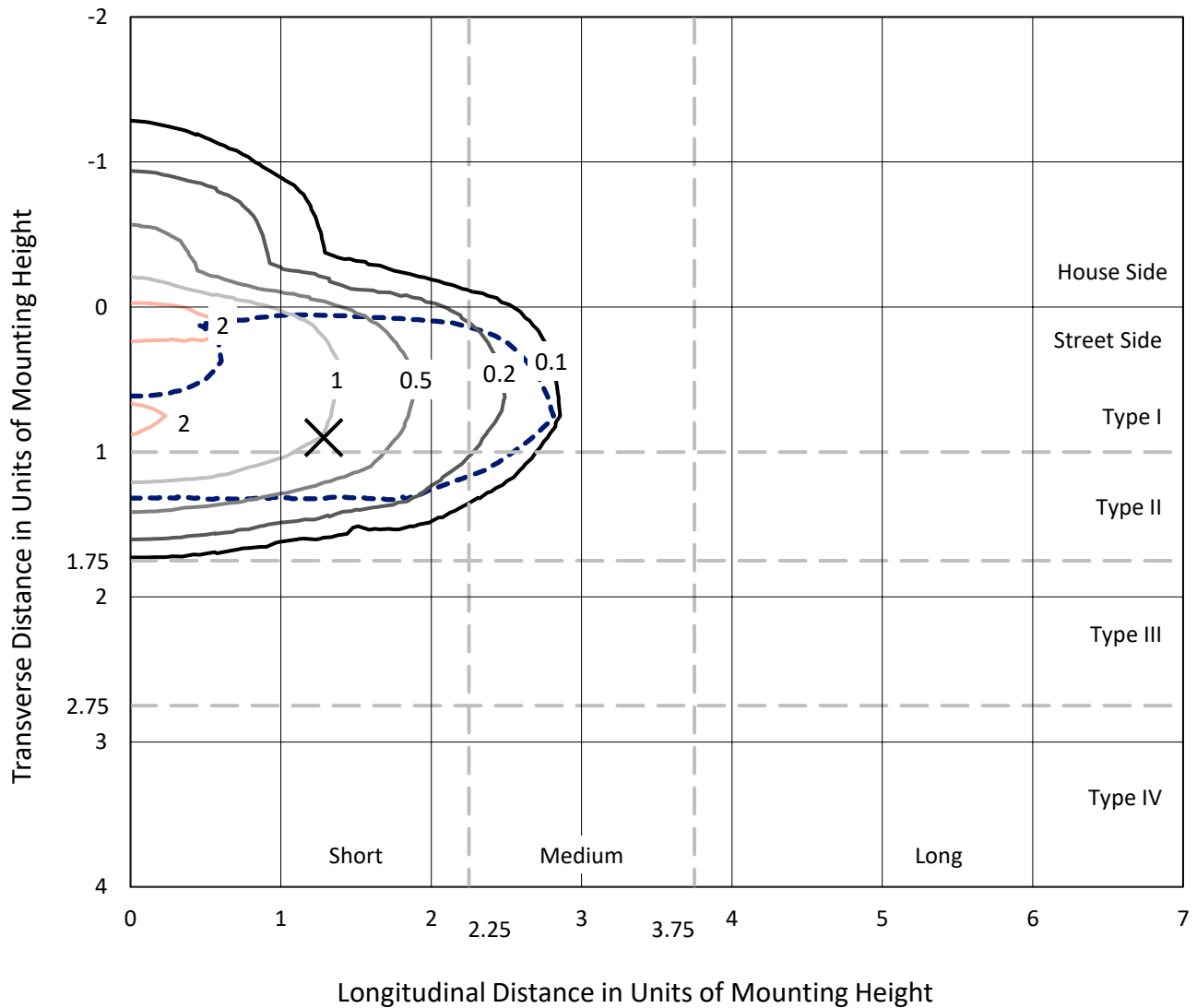
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

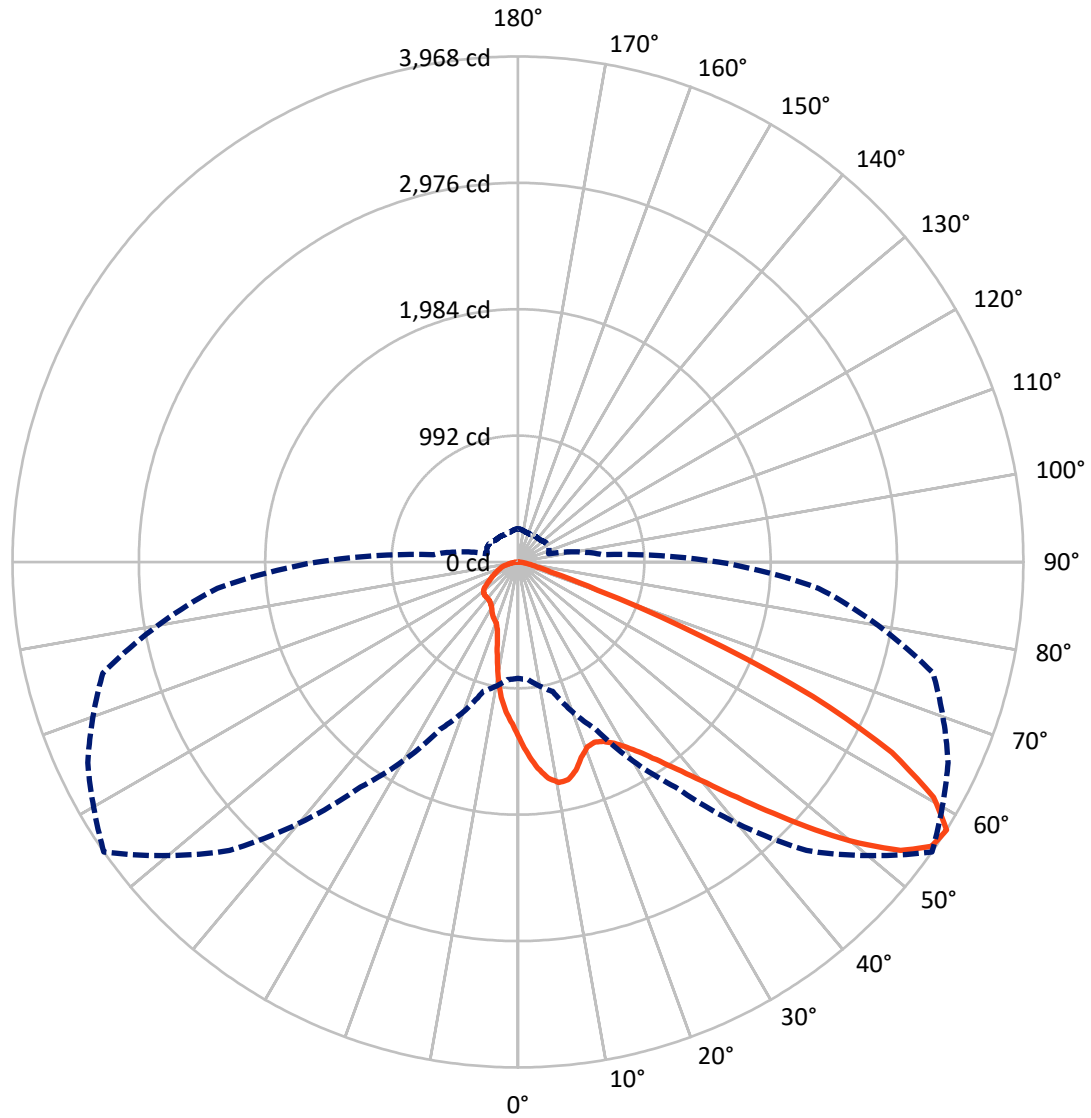
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	999.0	0.0	999.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4522.0	0.0	4522.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	5521.0	0.0	5521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	2.3
10°-20°	324.0	5.9
20°-30°	517.0	9.4
30°-40°	818.6	14.8
40°-50°	1252.9	22.7
50°-60°	1342.0	24.3
60°-70°	844.3	15.3
70°-80°	249.7	4.5
80°-90°	44.1	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°	5521.0	100.0
0°-180°	5521.0	100.0

Coefficient of Utilization



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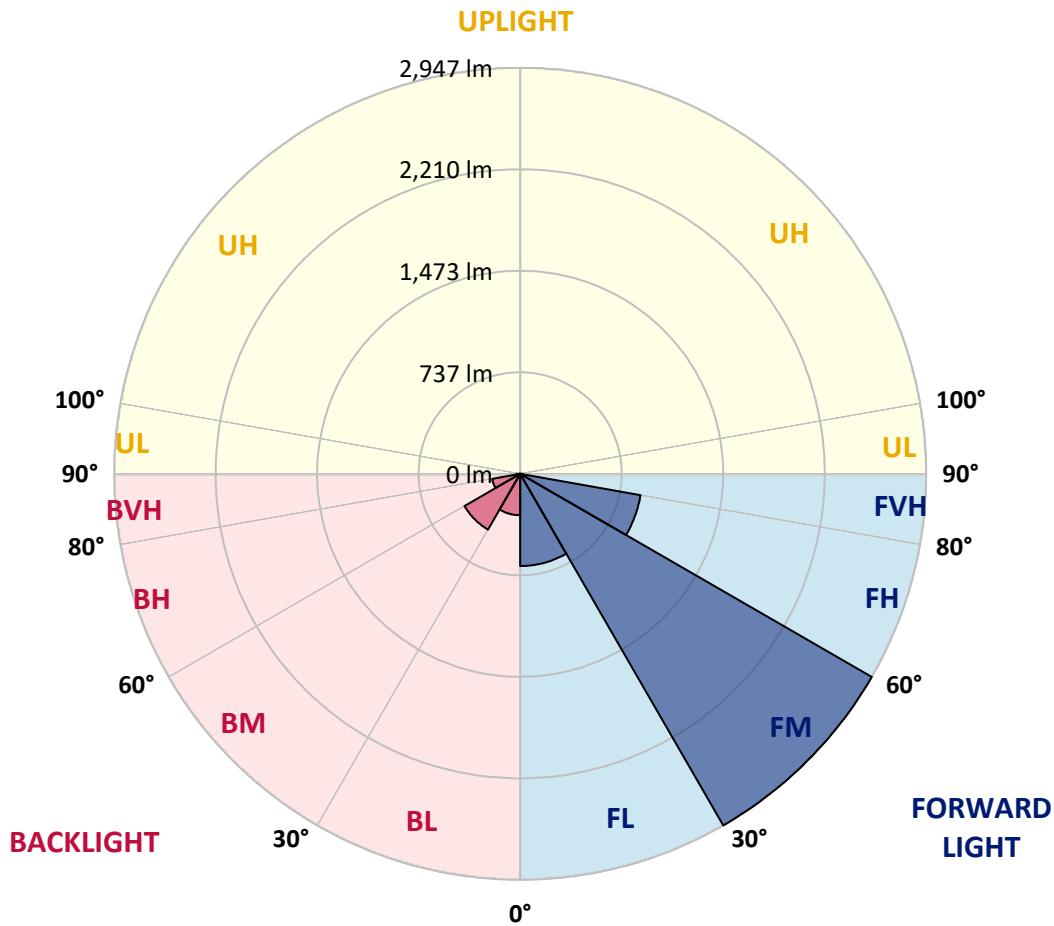
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	669.1	12.1			
FM (30°-60°)	2946.6	53.4			
FH (60°-80°)	887.6	16.1			G1/1800
FVH (80°-90°)	18.7	0.3			G1/100
BL (0°-30°)	300.3	5.4	B1/500		
BM (30°-60°)	466.9	8.5	B1/1000		
BH (60°-80°)	206.3	3.7	B1/500		G1/500
BVH (80°-90°)	25.5	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°	1383.4	1383.4	1383.4	1383.4	1383.4	1383.4	1383.4	1383.4	1383.4	1383.4
2.5°	1587.2	1586.0	1592.3	1570.9	1556.3	1536.6	1510.7	1477.6	1441.9	1404.2
5°	1730.2	1720.2	1726.7	1710.7	1694.8	1665.1	1626.6	1572.6	1506.7	1431.6
7.5°	1707.6	1700.8	1717.6	1731.9	1743.9	1740.1	1711.9	1655.4	1570.3	1461.3
10°	1525.8	1518.1	1541.8	1591.2	1663.7	1726.7	1761.0	1725.9	1635.4	1493.8
12.5°	1365.4	1361.7	1377.4	1417.3	1497.8	1618.8	1754.7	1787.5	1703.0	1532.4
15°	1296.9	1292.3	1302.3	1322.6	1374.0	1486.7	1697.6	1829.8	1769.5	1576.9
17.5°	1281.8	1276.6	1280.9	1291.5	1324.6	1410.5	1611.4	1850.6	1838.9	1626.6
20°	1309.7	1305.5	1306.0	1305.5	1328.6	1396.8	1551.5	1842.6	1899.4	1672.2
22.5°	1377.4	1370.3	1370.5	1355.4	1368.0	1420.8	1535.8	1821.2	1953.3	1712.2
25°	1487.6	1474.7	1477.3	1438.8	1435.3	1474.4	1560.3	1804.6	2007.0	1744.1
27.5°	1638.3	1623.7	1616.0	1558.6	1531.2	1550.6	1610.3	1810.4	2057.8	1771.8
30°	1826.6	1808.9	1793.2	1711.9	1662.2	1655.1	1687.9	1848.0	2117.7	1800.9
32.5°	2057.5	2037.0	2008.4	1900.5	1830.6	1793.2	1788.4	1915.1	2188.0	1838.0
35°	2332.4	2305.5	2265.0	2125.4	2037.0	1960.5	1920.8	2011.9	2284.1	1894.0
37.5°	2615.5	2585.2	2548.1	2382.0	2273.3	2160.6	2082.4	2143.1	2412.3	1969.9
40°	2876.6	2842.7	2808.2	2660.3	2543.6	2407.7	2280.1	2309.3	2569.0	2060.7
42.5°	3030.8	3005.7	2992.5	2912.6	2822.4	2684.6	2526.2	2506.2	2745.1	2165.1
45°	3023.9	3013.6	3054.2	3087.3	3065.9	2989.4	2814.4	2724.0	2921.7	2255.6
47.5°	2862.4	2869.2	2959.7	3145.8	3227.7	3267.7	3142.7	2937.7	3075.3	2323.2
50°	2422.8	2428.6	2638.0	3039.3	3269.4	3494.6	3468.3	3146.4	3194.3	2364.6
52.5°	2074.9	2078.6	2168.5	2723.7	3131.8	3608.7	3761.7	3343.0	3281.4	2376.0
55°	1562.9	1575.7	1676.5	2136.9	2773.9	3518.3	3940.4	3545.7	3336.4	2377.2
57.5°	913.0	927.0	1051.5	1450.5	2156.0	3202.9	3967.5	3725.5	3373.8	2368.0
60°	447.2	453.2	507.5	762.3	1329.4	2595.2	3749.4	3812.5	3394.7	2363.2
62.5°	301.4	300.5	302.8	376.2	655.0	1667.4	3295.1	3660.1	3383.5	2344.6
65°	259.2	256.0	247.5	264.0	339.4	762.6	2545.9	3205.2	3298.8	2298.1
67.5°	224.0	224.3	224.6	219.5	242.3	351.9	1555.8	2524.7	2994.5	2077.8
70°	185.5	188.1	189.2	189.2	197.5	230.9	664.1	1730.4	2362.1	1629.1
72.5°	169.0	163.5	164.1	161.3	161.3	175.8	267.4	981.0	1488.1	916.5
75°	137.9	141.3	141.8	139.9	133.3	134.1	158.7	411.6	636.8	380.2
77.5°	119.0	119.0	120.2	118.7	113.6	100.5	105.9	159.5	216.6	155.8
80°	95.6	95.3	100.2	103.0	95.0	74.2	67.6	88.2	96.2	68.5
82.5°	46.5	49.4	68.8	78.5	72.2	53.7	41.4	54.8	51.4	30.3
85°	27.1	25.7	30.8	43.7	41.4	29.7	20.0	28.5	26.8	15.4
87.5°	8.6	8.0	6.3	14.8	12.0	8.3	5.4	8.3	7.4	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°
1383.4	0°	1383.4	1383.4	1383.4	1383.4	1383.4	1383.4	1383.4	1383.4	1383.4	1383.4
1387.9	2.5°	1367.7	1334.0	1300.6	1270.1	1251.5	1239.5	1227.5	1214.1	1209.0	1201.3
1391.7	5°	1354.0	1288.9	1231.0	1181.0	1135.6	1100.0	1064.0	1034.9	1021.8	1030.6
1403.4	7.5°	1346.0	1251.8	1162.5	1070.9	982.7	912.2	850.8	807.7	788.3	793.2
1414.8	10°	1338.9	1209.9	1073.7	929.0	802.3	715.0	652.2	619.3	607.1	609.6
1430.2	12.5°	1332.3	1162.8	966.7	776.3	641.6	583.9	566.0	566.3	568.5	570.2
1454.7	15°	1331.2	1106.0	847.1	642.7	554.8	551.1	570.5	582.8	589.4	591.4
1475.3	17.5°	1329.4	1038.0	725.2	551.7	533.7	558.8	576.8	584.8	589.9	590.2
1495.3	20°	1322.6	951.8	612.8	508.3	529.2	550.8	562.0	568.3	572.5	574.0
1510.4	22.5°	1301.5	855.9	525.2	488.9	510.9	528.3	541.4	548.6	551.1	552.8
1513.2	25°	1263.5	748.6	464.6	470.4	485.5	507.5	518.0	519.4	518.6	521.2
1506.1	27.5°	1213.8	633.6	427.0	445.2	464.6	483.5	489.2	488.3	486.6	489.5
1493.8	30°	1153.9	530.3	403.0	417.0	443.5	460.7	465.8	463.8	460.4	463.5
1487.6	32.5°	1090.6	445.8	383.3	397.3	426.1	443.0	448.1	446.1	443.5	446.1
1494.7	35°	1031.5	386.7	365.0	384.2	412.4	429.0	435.5	435.8	435.8	439.0
1513.5	37.5°	977.2	352.2	349.9	375.9	403.0	417.8	427.3	427.8	415.6	416.4
1545.5	40°	927.0	337.6	343.1	370.5	393.9	408.1	408.7	376.7	354.2	353.6
1582.0	42.5°	885.9	334.8	345.1	369.9	387.3	387.9	347.6	322.8	316.5	316.8
1615.7	45°	847.4	333.9	349.6	369.9	377.6	335.1	308.0	301.4	302.0	304.2
1630.8	47.5°	804.3	330.5	350.5	364.8	349.6	298.0	290.0	287.1	286.0	286.6
1627.4	50°	757.2	318.2	339.6	354.5	301.7	282.0	272.0	271.1	272.6	273.4
1608.3	52.5°	707.5	298.3	321.1	335.9	279.7	268.0	256.9	258.9	265.1	267.1
1588.3	55°	675.0	274.9	296.5	298.8	264.3	254.9	245.5	250.0	261.7	265.4
1576.3	57.5°	666.4	250.0	268.6	266.0	244.6	243.5	237.7	241.7	256.6	262.0
1575.7	60°	663.9	227.8	241.2	239.2	225.5	230.9	229.5	231.5	236.6	238.3
1570.0	62.5°	643.9	210.1	216.6	213.8	208.3	217.8	221.2	216.9	220.9	222.9
1530.9	65°	593.1	195.8	192.7	190.7	192.9	201.5	208.3	199.8	203.5	209.2
1380.2	67.5°	509.2	176.4	167.8	170.1	177.2	181.8	190.7	181.0	184.1	193.8
1111.7	70°	411.8	151.8	144.1	150.7	157.5	167.0	168.4	161.8	169.2	180.1
678.4	72.5°	291.4	127.0	121.6	135.0	137.3	149.6	146.4	143.3	153.6	157.3
335.4	75°	202.1	102.5	99.3	109.6	117.9	128.4	126.2	129.9	151.6	153.3
167.5	77.5°	127.9	79.6	77.6	84.2	95.6	107.3	111.0	153.3	258.9	269.1
87.1	80°	74.2	59.4	57.1	62.2	72.2	83.1	107.0	188.1	170.7	168.7
39.1	82.5°	41.4	40.8	38.0	39.4	48.2	59.9	151.3	132.4	107.6	111.0
15.7	85°	19.4	24.0	20.5	19.7	27.1	70.2	101.0	75.6	50.2	49.1
3.4	87.5°	5.1	4.6	4.6	5.1	11.4	60.5	40.2	32.3	19.1	18.6
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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