

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: P944917

Luminaire Tested: **GALN-SB1A-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944917
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-SB1A-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4828 lumens
Efficiency: N/A
Efficacy: 156.2 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

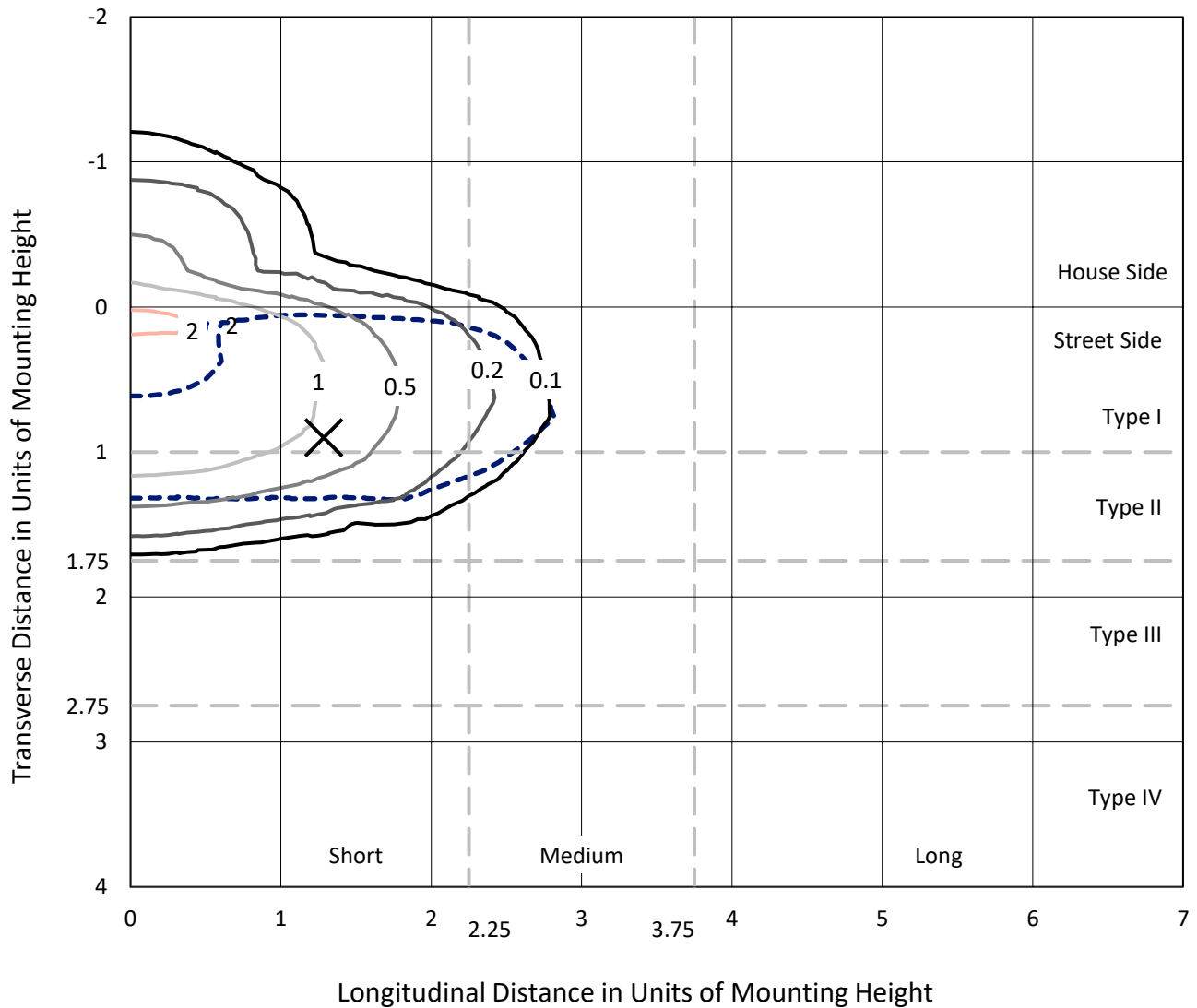
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

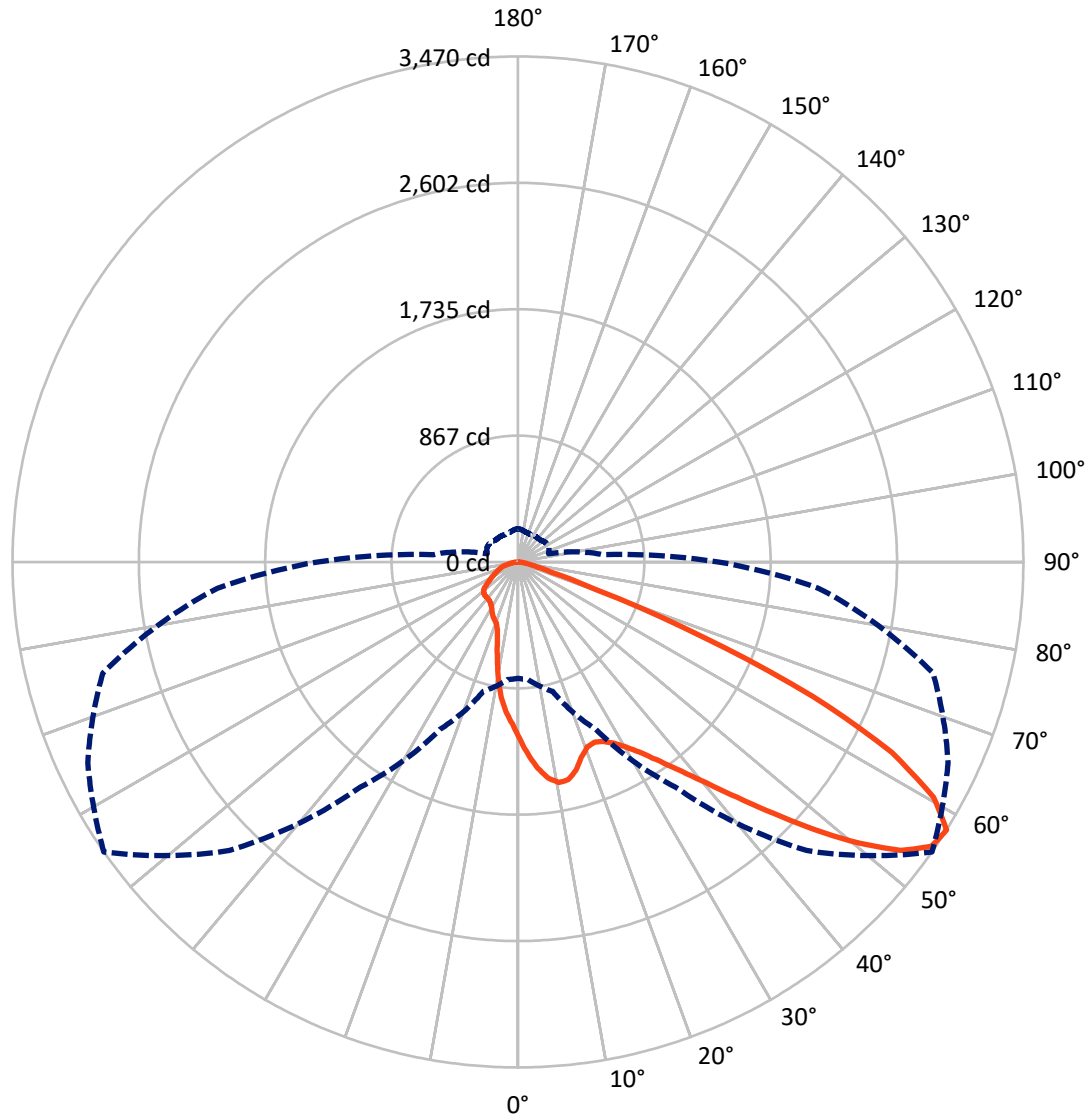
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SB1A-740-U-AFL

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	873.6	0.0	873.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3954.4	0.0	3954.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	4828.0	0.0	4828.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	2.3
10°-20°	283.3	5.9
20°-30°	452.1	9.4
30°-40°	715.8	14.8
40°-50°	1095.7	22.7
50°-60°	1173.6	24.3
60°-70°	738.3	15.3
70°-80°	218.3	4.5
80°-90°	38.6	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°	4828.0	100.0
0°-180°	4828.0	100.0



REPORT NUMBER: P944917

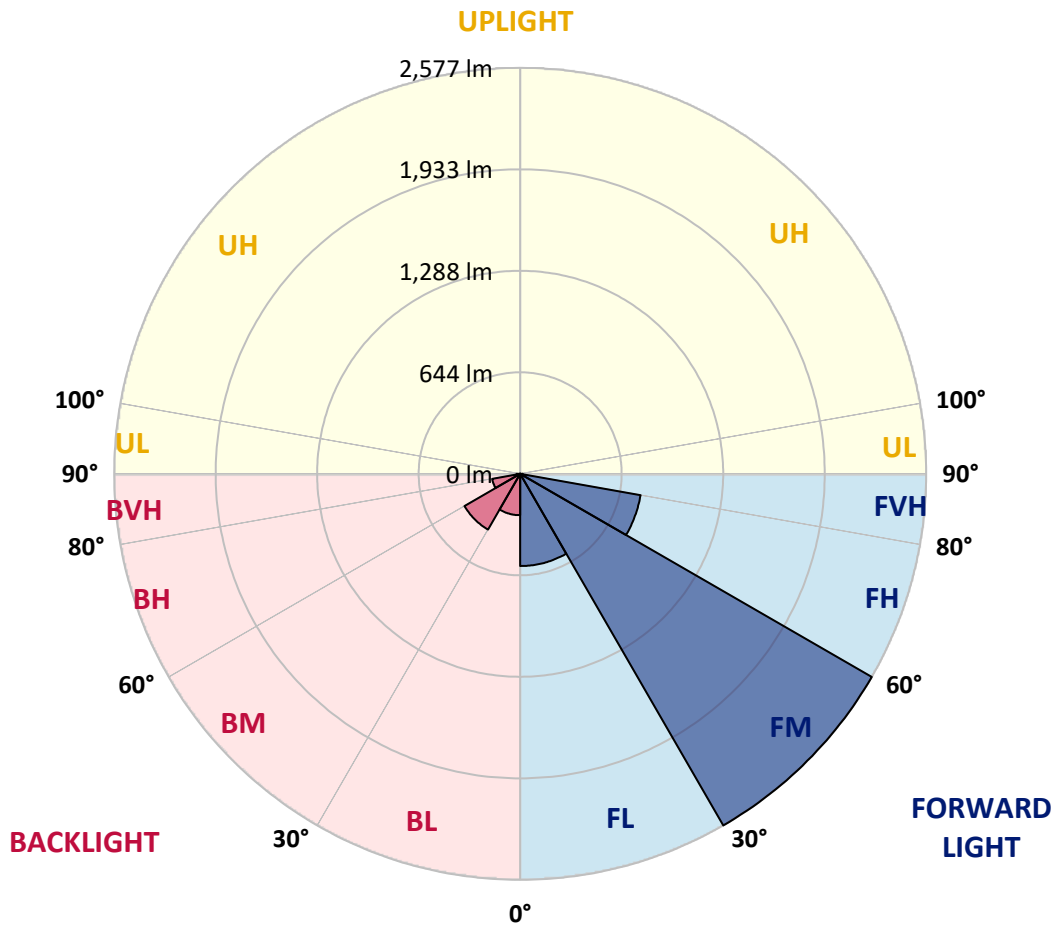
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.2	12.1			
FM (30°-60°)	2576.7	53.4			
FH (60°-80°)	776.2	16.1			G1/1800
FVH (80°-90°)	16.3	0.3			G1/100
BL (0°-30°)	262.6	5.4	B1/500		
BM (30°-60°)	408.3	8.5	B1/1000		
BH (60°-80°)	180.4	3.7	B1/500		G1/500
BVH (80°-90°)	22.3	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



REPORT NUMBER: P944917
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1209.7	1209.7	1209.7	1209.7	1209.7	1209.7	1209.7	1209.7	1209.7	1209.7
2.5°	1387.9	1386.9	1392.4	1373.7	1361.0	1343.8	1321.1	1292.1	1260.9	1228.0
5°	1513.0	1504.3	1510.0	1496.0	1482.0	1456.1	1422.4	1375.2	1317.6	1251.9
7.5°	1493.3	1487.3	1502.0	1514.5	1525.0	1521.7	1497.0	1447.6	1373.2	1277.9
10°	1334.3	1327.5	1348.3	1391.4	1454.8	1510.0	1539.9	1509.2	1430.1	1306.3
12.5°	1194.0	1190.8	1204.5	1239.4	1309.8	1415.6	1534.5	1563.2	1489.3	1340.0
15°	1134.1	1130.1	1138.9	1156.6	1201.5	1300.1	1484.5	1600.1	1547.4	1379.0
17.5°	1120.9	1116.4	1120.1	1129.4	1158.3	1233.5	1409.2	1618.3	1608.1	1422.4
20°	1145.3	1141.6	1142.1	1141.6	1161.8	1221.5	1356.7	1611.3	1661.0	1462.3
22.5°	1204.5	1198.3	1198.5	1185.3	1196.3	1242.4	1343.0	1592.6	1708.2	1497.3
25°	1300.8	1289.6	1291.9	1258.2	1255.2	1289.4	1364.5	1578.1	1755.1	1525.2
27.5°	1432.6	1419.9	1413.2	1363.0	1339.0	1356.0	1408.2	1583.1	1799.5	1549.4
30°	1597.3	1581.9	1568.1	1497.0	1453.6	1447.3	1476.0	1616.1	1851.9	1574.9
32.5°	1799.3	1781.3	1756.3	1662.0	1600.8	1568.1	1563.9	1674.7	1913.3	1607.3
35°	2039.6	2016.2	1980.7	1858.7	1781.3	1714.4	1679.7	1759.3	1997.4	1656.2
37.5°	2287.2	2260.7	2228.3	2083.0	1987.9	1889.4	1821.0	1874.1	2109.5	1722.6
40°	2515.6	2485.9	2455.7	2326.4	2224.3	2105.5	1993.9	2019.4	2246.5	1802.0
42.5°	2650.3	2628.4	2616.9	2547.0	2468.1	2347.6	2209.1	2191.6	2400.5	1893.4
45°	2644.4	2635.4	2670.8	2699.8	2681.0	2614.2	2461.2	2382.0	2555.0	1972.5
47.5°	2503.1	2509.1	2588.2	2750.9	2822.6	2857.5	2748.2	2569.0	2689.3	2031.6
50°	2118.7	2123.7	2306.9	2657.8	2859.0	3055.9	3033.0	2751.4	2793.4	2067.8
52.5°	1814.5	1817.7	1896.3	2381.8	2738.7	3155.8	3289.5	2923.4	2869.5	2077.8
55°	1366.7	1378.0	1466.1	1868.6	2425.7	3076.6	3445.8	3100.6	2917.7	2078.8
57.5°	798.4	810.7	919.5	1268.4	1885.4	2800.8	3469.5	3257.8	2950.3	2070.8
60°	391.1	396.3	443.8	666.6	1162.6	2269.5	3278.8	3334.0	2968.6	2066.6
62.5°	263.6	262.8	264.8	329.0	572.8	1458.1	2881.5	3200.7	2958.8	2050.3
65°	226.6	223.9	216.4	230.9	296.8	666.9	2226.3	2802.8	2884.7	2009.7
67.5°	195.9	196.2	196.4	191.9	211.9	307.7	1360.5	2207.8	2618.6	1817.0
70°	162.2	164.5	165.5	165.5	172.7	201.9	580.8	1513.2	2065.6	1424.6
72.5°	147.8	143.0	143.5	141.0	141.0	153.7	233.9	857.8	1301.3	801.4
75°	120.5	123.5	124.0	122.3	116.6	117.3	138.8	359.9	556.8	332.4
77.5°	104.1	104.1	105.1	103.8	99.3	87.9	92.6	139.5	189.4	136.3
80°	83.6	83.4	87.6	90.1	83.1	64.9	59.2	77.1	84.1	59.9
82.5°	40.7	43.2	60.2	68.6	63.1	46.9	36.2	47.9	44.9	26.5
85°	23.7	22.5	27.0	38.2	36.2	26.0	17.5	25.0	23.5	13.5
87.5°	7.5	7.0	5.5	13.0	10.5	7.2	4.7	7.2	6.5	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944917
 CATALOG NUMBER: GALN-SB1A-740-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1209.7	0°	1209.7	1209.7	1209.7	1209.7	1209.7	1209.7	1209.7	1209.7	1209.7	1209.7
1213.7	2.5°	1196.0	1166.6	1137.4	1110.7	1094.4	1083.9	1073.5	1061.7	1057.2	1050.5
1217.0	5°	1184.0	1127.1	1076.5	1032.8	993.1	961.9	930.5	905.0	893.5	901.3
1227.2	7.5°	1177.0	1094.7	1016.6	936.4	859.3	797.7	744.0	706.3	689.4	693.6
1237.2	10°	1170.8	1058.0	938.9	812.4	701.6	625.2	570.3	541.6	530.9	533.1
1250.7	12.5°	1165.1	1016.8	845.3	678.9	561.1	510.7	494.9	495.2	497.2	498.7
1272.1	15°	1164.1	967.1	740.8	562.1	485.2	481.9	498.9	509.7	515.4	517.1
1290.1	17.5°	1162.6	907.7	634.2	482.4	466.7	488.7	504.4	511.4	515.9	516.1
1307.6	20°	1156.6	832.4	535.9	444.5	462.7	481.7	491.4	496.9	500.7	501.9
1320.8	22.5°	1138.1	748.5	459.2	427.5	446.8	462.0	473.5	479.7	481.9	483.4
1323.3	25°	1104.9	654.7	406.3	411.3	424.5	443.8	453.0	454.2	453.5	455.7
1317.1	27.5°	1061.5	554.1	373.4	389.4	406.3	422.8	427.8	427.0	425.5	428.0
1306.3	30°	1009.1	463.7	352.4	364.6	387.9	402.8	407.3	405.6	402.6	405.3
1300.8	32.5°	953.7	389.9	335.2	347.4	372.6	387.4	391.8	390.1	387.9	390.1
1307.1	35°	902.0	338.2	319.2	335.9	360.7	375.1	380.9	381.1	381.1	383.9
1323.6	37.5°	854.6	308.0	306.0	328.7	352.4	365.4	373.6	374.1	363.4	364.1
1351.5	40°	810.7	295.3	300.0	324.0	344.4	356.9	357.4	329.5	309.7	309.2
1383.5	42.5°	774.7	292.8	301.7	323.5	338.7	339.2	304.0	282.3	276.8	277.0
1412.9	45°	741.0	292.0	305.7	323.5	330.2	293.0	269.3	263.6	264.1	266.1
1426.1	47.5°	703.3	289.0	306.5	319.0	305.7	260.6	253.6	251.1	250.1	250.6
1423.1	50°	662.1	278.3	297.0	310.0	263.8	246.6	237.9	237.1	238.4	239.1
1406.4	52.5°	618.7	260.8	280.8	293.8	244.6	234.4	224.6	226.4	231.9	233.6
1388.9	55°	590.3	240.4	259.3	261.3	231.1	222.9	214.6	218.6	228.9	232.1
1378.5	57.5°	582.8	218.6	234.9	232.6	213.9	212.9	207.9	211.4	224.4	229.1
1378.0	60°	580.5	199.2	210.9	209.2	197.2	201.9	200.7	202.4	206.9	208.4
1373.0	62.5°	563.1	183.7	189.4	186.9	182.2	190.4	193.4	189.7	193.2	194.9
1338.8	65°	518.6	171.2	168.5	166.7	168.7	176.2	182.2	174.7	178.0	182.9
1207.0	67.5°	445.3	154.2	146.8	148.8	155.0	159.0	166.7	158.2	161.0	169.5
972.1	70°	360.2	132.8	126.0	131.8	137.8	146.0	147.3	141.5	148.0	157.5
593.3	72.5°	254.8	111.1	106.3	118.1	120.1	130.8	128.0	125.3	134.3	137.5
293.3	75°	176.7	89.6	86.9	95.8	103.1	112.3	110.3	113.6	132.5	134.0
146.5	77.5°	111.8	69.6	67.9	73.6	83.6	93.8	97.1	134.0	226.4	235.4
76.1	80°	64.9	51.9	49.9	54.4	63.1	72.6	93.6	164.5	149.3	147.5
34.2	82.5°	36.2	35.7	33.2	34.4	42.2	52.4	132.3	115.8	94.1	97.1
13.7	85°	17.0	21.0	18.0	17.2	23.7	61.4	88.4	66.1	43.9	42.9
3.0	87.5°	4.5	4.0	4.0	4.5	10.0	52.9	35.2	28.2	16.7	16.2
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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