

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: P945799

Luminaire Tested: **GALN-SB1C-927-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945799  
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-927-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

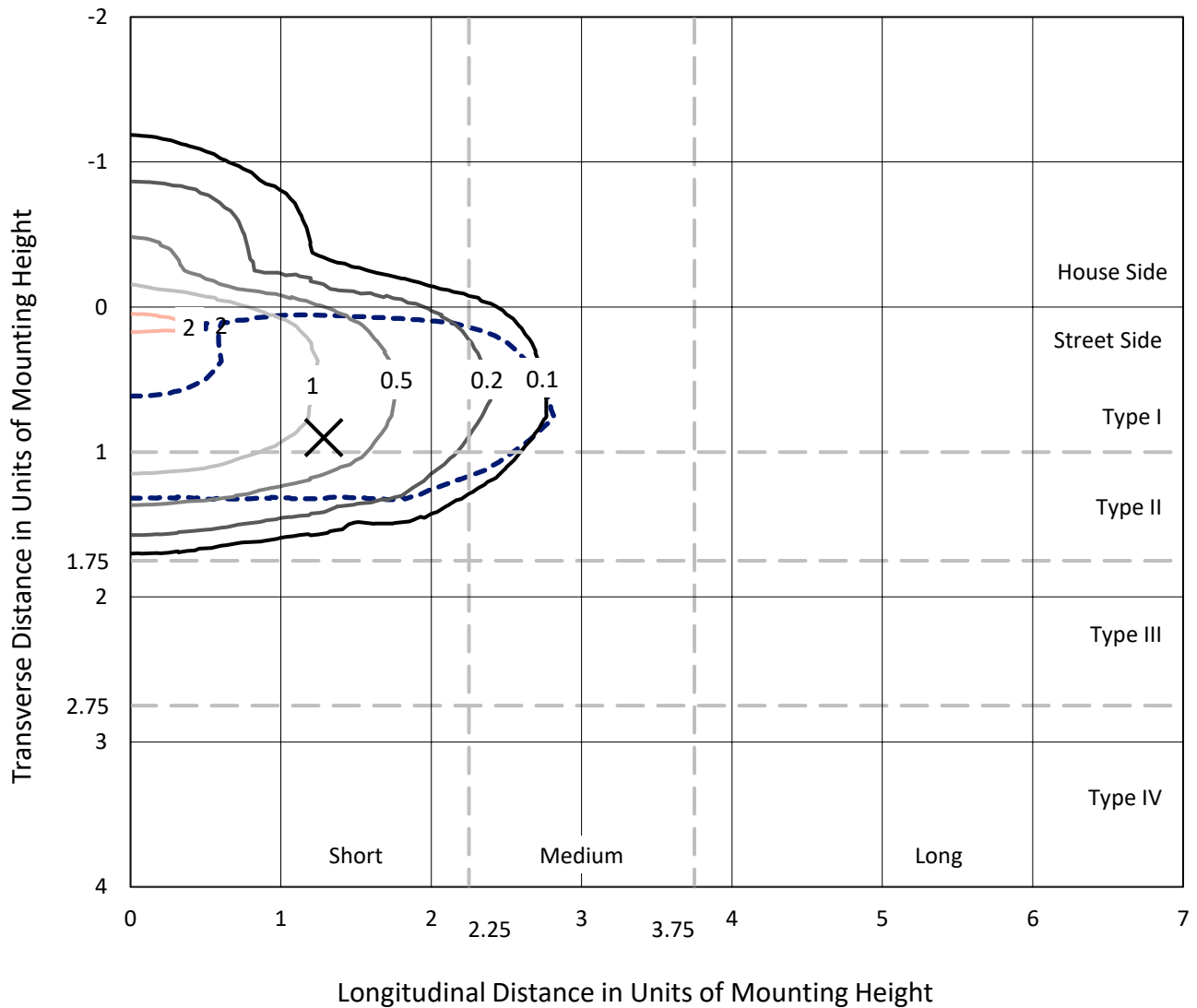
Lumens per Lamp: N/A  
Luminaire Lumens: 4638 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

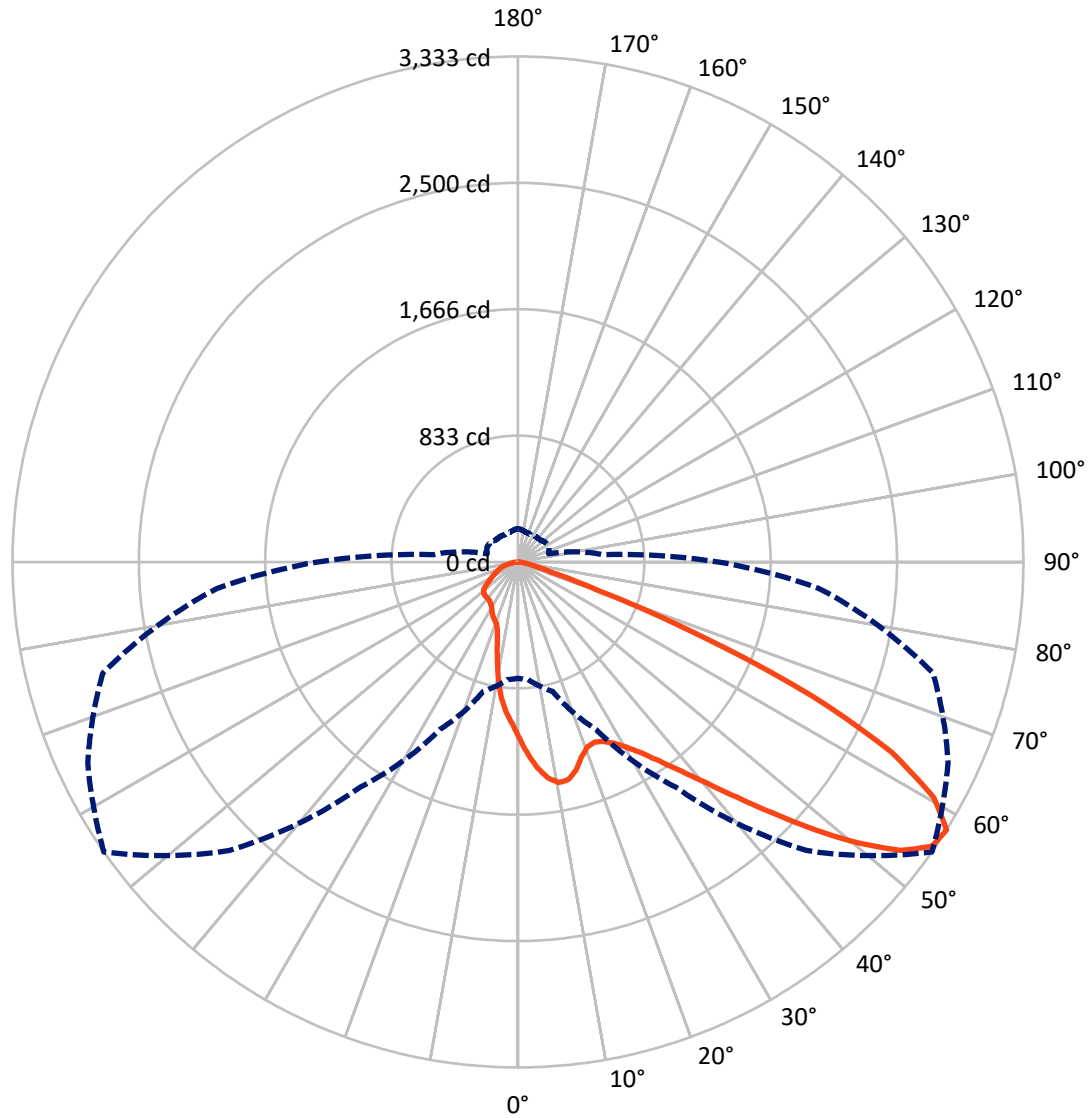
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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
<b>House Side</b>	Lumens	839.2	0.0	839.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	3798.8	0.0	3798.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	4638.0	0.0	4638.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.8	2.3
10°-20°	272.2	5.9
20°-30°	434.3	9.4
30°-40°	687.7	14.8
40°-50°	1052.5	22.7
50°-60°	1127.4	24.3
60°-70°	709.2	15.3
70°-80°	209.7	4.5
80°-90°	37.1	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°	4638.0	100.0
0°-180°	4638.0	100.0

**Coefficient of Utilization**



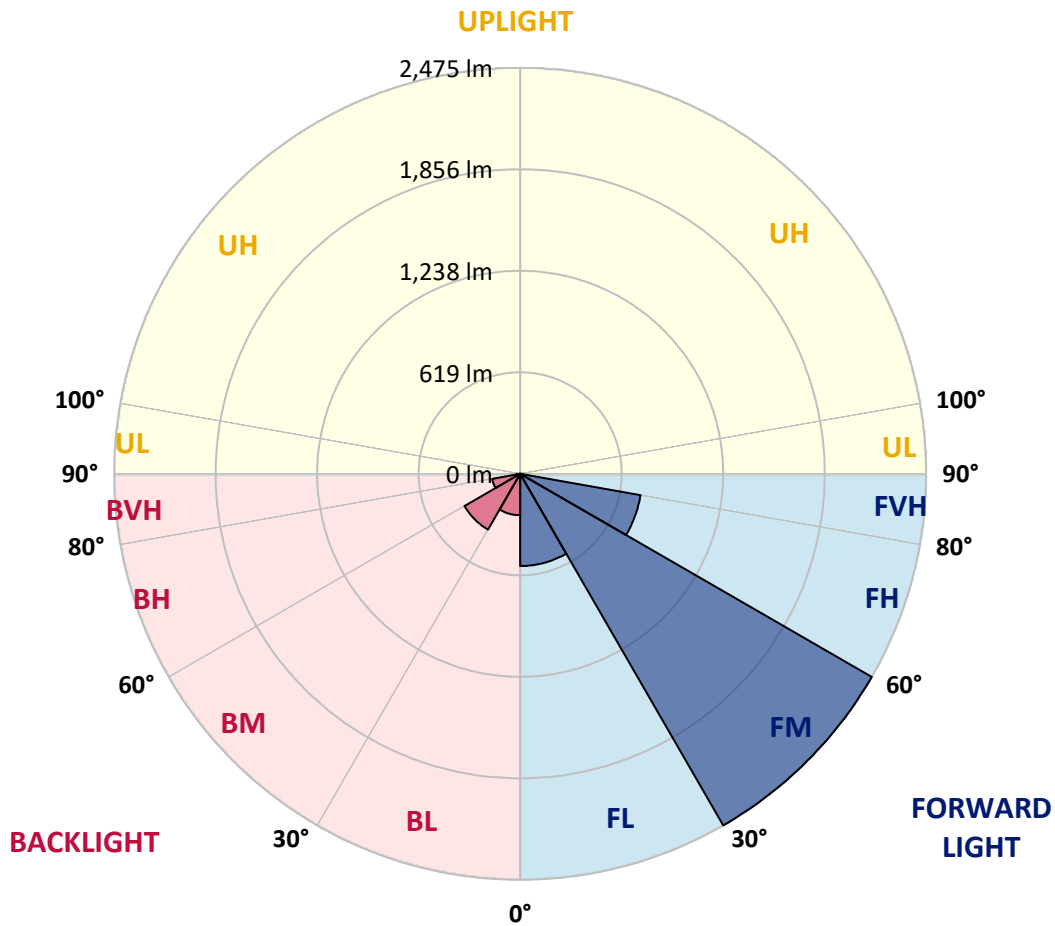
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	562.1	12.1			
FM (30°-60°)	2475.3	53.4			
FH (60°-80°)	745.7	16.1			G1/1800
FVH (80°-90°)	15.7	0.3			G1/100
BL (0°-30°)	252.2	5.4	B1/500		
BM (30°-60°)	392.2	8.5	B1/1000		
BH (60°-80°)	173.3	3.7	B1/500		G1/500
BVH (80°-90°)	21.4	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°	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1
2.5°	1333.3	1332.4	1337.6	1319.7	1307.4	1290.9	1269.1	1241.3	1211.3	1179.6
5°	1453.4	1445.1	1450.6	1437.1	1423.7	1398.8	1366.4	1321.1	1265.7	1202.7
7.5°	1434.5	1428.7	1442.9	1454.9	1465.0	1461.8	1438.1	1390.6	1319.2	1227.6
10°	1281.8	1275.3	1295.2	1336.7	1397.6	1450.6	1479.3	1449.8	1373.8	1254.9
12.5°	1147.0	1143.9	1157.1	1190.7	1258.3	1359.9	1474.1	1501.6	1430.7	1287.3
15°	1089.5	1085.6	1094.0	1111.1	1154.2	1248.9	1426.1	1537.1	1486.5	1324.7
17.5°	1076.8	1072.5	1076.1	1084.9	1112.7	1184.9	1353.7	1554.6	1544.8	1366.4
20°	1100.3	1096.7	1097.2	1096.7	1116.1	1173.4	1303.4	1547.9	1595.6	1404.8
22.5°	1157.1	1151.1	1151.3	1138.6	1149.2	1193.5	1290.2	1529.9	1640.9	1438.3
25°	1249.6	1238.9	1241.0	1208.6	1205.8	1238.6	1310.8	1516.0	1686.0	1465.2
27.5°	1376.2	1364.0	1357.5	1309.3	1286.3	1302.6	1352.7	1520.8	1728.7	1488.4
30°	1534.5	1519.6	1506.4	1438.1	1396.4	1390.4	1418.0	1552.5	1779.0	1512.9
32.5°	1728.5	1711.2	1687.2	1596.6	1537.8	1506.4	1502.4	1608.8	1838.0	1544.1
35°	1959.3	1936.8	1902.8	1785.5	1711.2	1646.9	1613.6	1690.1	1918.8	1591.1
37.5°	2197.2	2171.8	2140.6	2001.1	1909.7	1815.0	1749.3	1800.4	2026.5	1654.8
40°	2416.6	2388.0	2359.0	2234.8	2136.8	2022.6	1915.5	1939.9	2158.1	1731.1
42.5°	2546.0	2524.9	2513.9	2446.8	2371.0	2255.2	2122.1	2105.4	2306.0	1818.8
45°	2540.3	2531.7	2565.7	2593.5	2575.5	2511.3	2364.3	2288.3	2454.5	1894.8
47.5°	2404.6	2410.3	2486.3	2642.7	2711.5	2745.0	2640.0	2467.9	2583.4	1951.7
50°	2035.3	2040.1	2216.1	2553.2	2746.5	2935.7	2913.6	2643.1	2683.4	1986.4
52.5°	1743.1	1746.2	1821.7	2288.1	2630.9	3031.6	3160.1	2808.3	2756.6	1996.0
55°	1312.9	1323.7	1408.4	1795.1	2330.3	2955.6	3310.2	2978.6	2802.8	1997.0
57.5°	767.0	778.8	883.3	1218.5	1811.2	2690.6	3332.9	3129.6	2834.2	1989.3
60°	375.7	380.7	426.3	640.4	1116.8	2180.2	3149.8	3202.8	2851.7	1985.2
62.5°	253.2	252.5	254.4	316.0	550.3	1400.7	2768.1	3074.7	2842.4	1969.7
65°	217.7	215.1	207.9	221.8	285.1	640.6	2138.7	2692.5	2771.2	1930.6
67.5°	188.2	188.5	188.7	184.4	203.6	295.6	1306.9	2120.9	2515.6	1745.5
70°	155.8	158.0	159.0	159.0	165.9	194.0	557.9	1453.7	1984.3	1368.6
72.5°	141.9	137.4	137.9	135.5	135.5	147.7	224.7	824.1	1250.1	769.9
75°	115.8	118.7	119.2	117.5	112.0	112.7	133.3	345.7	534.9	319.4
77.5°	100.0	100.0	100.9	99.7	95.4	84.4	89.0	134.0	182.0	130.9
80°	80.3	80.1	84.2	86.6	79.8	62.3	56.8	74.1	80.8	57.5
82.5°	39.1	41.5	57.8	65.9	60.7	45.1	34.8	46.0	43.2	25.4
85°	22.8	21.6	25.9	36.7	34.8	24.9	16.8	24.0	22.5	12.9
87.5°	7.2	6.7	5.3	12.5	10.1	7.0	4.6	7.0	6.2	2.9
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°
1162.1	0°	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1
1166.0	2.5°	1148.9	1120.7	1092.6	1066.9	1051.4	1041.3	1031.2	1020.0	1015.6	1009.2
1169.1	5°	1137.4	1082.8	1034.1	992.1	954.0	924.0	893.8	869.4	858.4	865.8
1178.9	7.5°	1130.7	1051.6	976.6	899.6	825.5	766.3	714.7	678.5	662.2	666.3
1188.5	10°	1124.7	1016.4	902.0	780.4	674.0	600.6	547.9	520.3	510.0	512.1
1201.5	12.5°	1119.2	976.8	812.1	652.2	539.0	490.6	475.5	475.7	477.6	479.0
1222.1	15°	1118.3	929.1	711.6	539.9	466.1	463.0	479.3	489.6	495.1	496.8
1239.3	17.5°	1116.8	872.0	609.2	463.5	448.4	469.5	484.6	491.3	495.6	495.8
1256.1	20°	1111.1	799.6	514.8	427.0	444.5	462.7	472.1	477.4	481.0	482.2
1268.8	22.5°	1093.3	719.0	441.2	410.7	429.2	443.8	454.8	460.8	463.0	464.4
1271.2	25°	1061.4	628.9	390.3	395.1	407.8	426.3	435.2	436.4	435.6	437.8
1265.2	27.5°	1019.7	532.3	358.7	374.0	390.3	406.2	411.0	410.2	408.8	411.2
1254.9	30°	969.4	445.5	338.5	350.3	372.6	387.0	391.3	389.6	386.7	389.4
1249.6	32.5°	916.1	374.5	322.0	333.8	358.0	372.1	376.4	374.7	372.6	374.7
1255.6	35°	866.5	324.9	306.7	322.7	346.5	360.4	365.9	366.1	366.1	368.8
1271.5	37.5°	820.9	295.9	293.9	315.8	338.5	351.0	358.9	359.4	349.1	349.8
1298.3	40°	778.8	283.6	288.2	311.2	330.9	342.9	343.3	316.5	297.5	297.1
1329.0	42.5°	744.2	281.2	289.9	310.7	325.4	325.8	292.0	271.2	265.9	266.1
1357.3	45°	711.9	280.5	293.7	310.7	317.2	281.5	258.7	253.2	253.7	255.6
1370.0	47.5°	675.7	277.6	294.4	306.4	293.7	250.3	243.6	241.2	240.2	240.7
1367.1	50°	636.1	267.3	285.3	297.8	253.4	236.9	228.5	227.8	229.0	229.7
1351.1	52.5°	594.4	250.6	269.7	282.2	235.0	225.1	215.8	217.5	222.7	224.4
1334.3	55°	567.0	230.9	249.1	251.0	222.0	214.1	206.2	210.0	219.9	223.0
1324.2	57.5°	559.8	210.0	225.6	223.5	205.5	204.5	199.7	203.1	215.5	220.1
1323.7	60°	557.7	191.3	202.6	200.9	189.4	194.0	192.8	194.4	198.8	200.2
1318.9	62.5°	540.9	176.5	182.0	179.6	175.0	182.9	185.8	182.2	185.6	187.3
1286.1	65°	498.2	164.5	161.8	160.2	162.1	169.3	175.0	167.8	171.0	175.7
1159.5	67.5°	427.7	148.2	141.0	142.9	148.9	152.7	160.2	152.0	154.6	162.8
933.9	70°	346.0	127.6	121.1	126.6	132.3	140.3	141.5	135.9	142.2	151.3
569.9	72.5°	244.8	106.7	102.1	113.4	115.3	125.6	123.0	120.4	129.0	132.1
281.7	75°	169.8	86.1	83.4	92.1	99.0	107.9	106.0	109.1	127.3	128.8
140.7	77.5°	107.4	66.9	65.2	70.7	80.3	90.2	93.3	128.8	217.5	226.1
73.1	80°	62.3	49.9	48.0	52.3	60.7	69.8	89.9	158.0	143.4	141.7
32.8	82.5°	34.8	34.3	31.9	33.1	40.5	50.4	127.1	111.3	90.4	93.3
13.2	85°	16.3	20.1	17.3	16.5	22.8	59.0	84.9	63.5	42.2	41.2
2.9	87.5°	4.3	3.8	3.8	4.3	9.6	50.8	33.8	27.1	16.1	15.6
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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