

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: P945505

Luminaire Tested: **GALN-SB1B-940-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945505  
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-SB1B-940-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

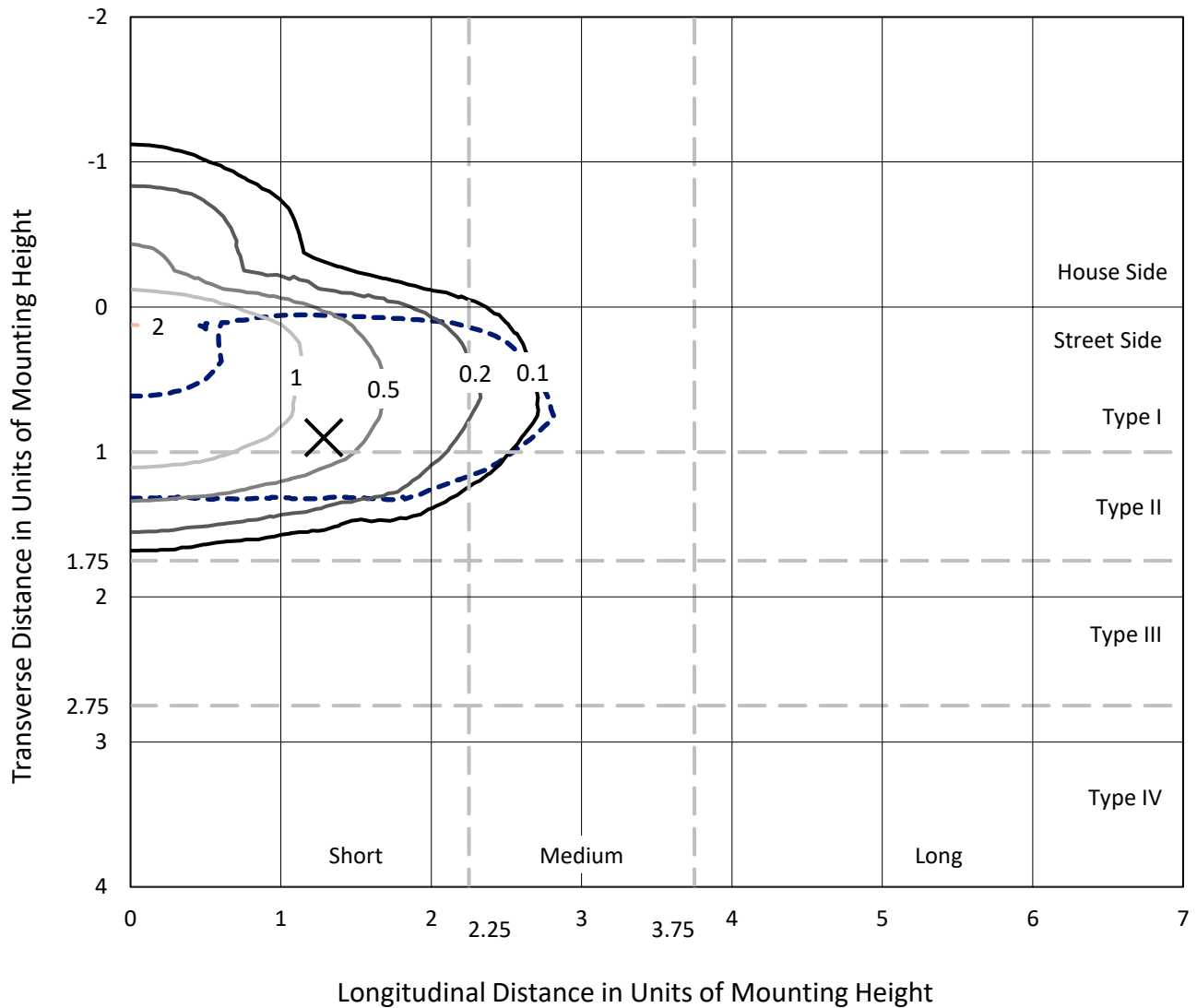
Lumens per Lamp: N/A  
Luminaire Lumens: 4151 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

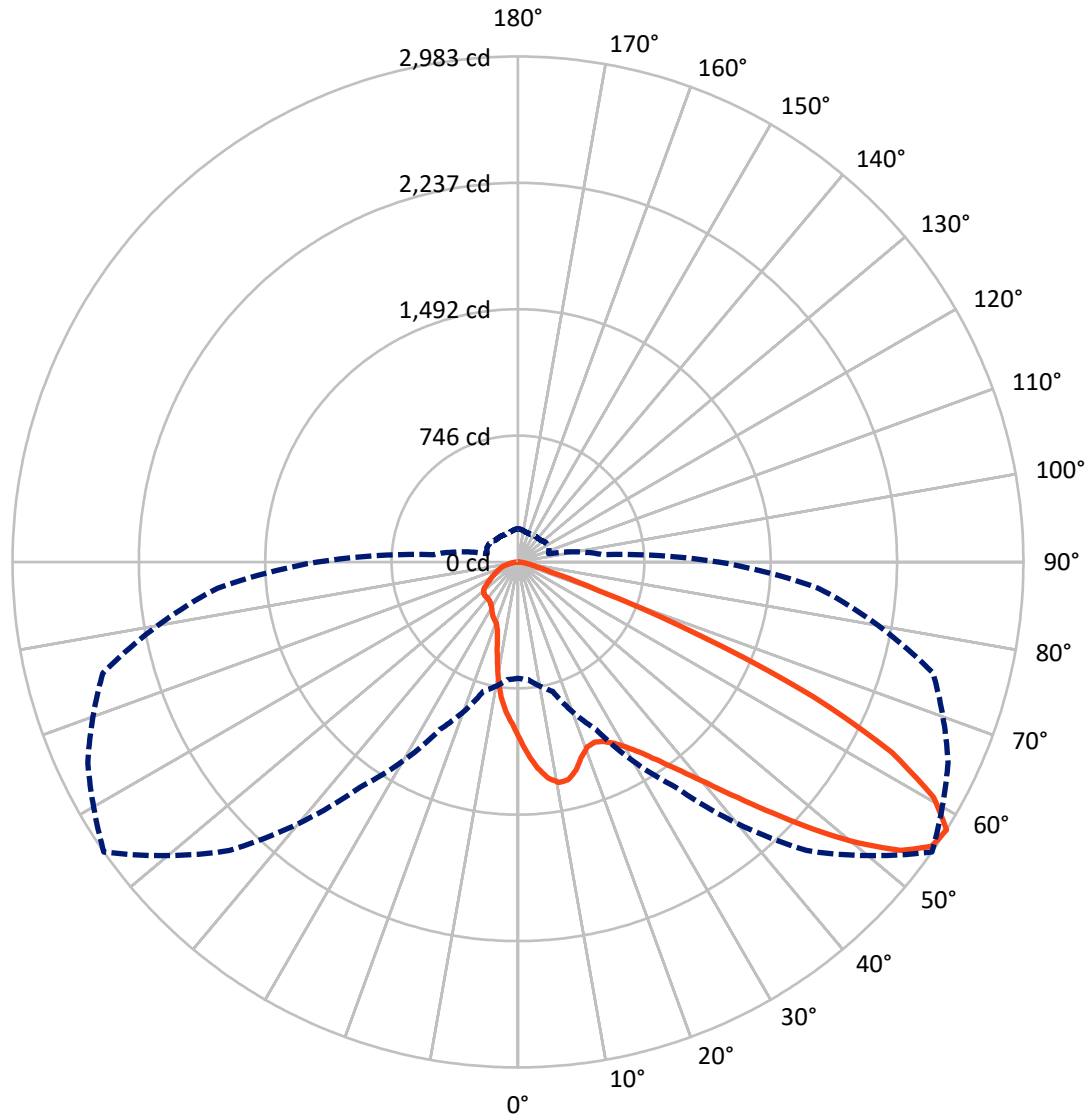
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	751.1	0.0	751.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	3399.9	0.0	3399.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	4151.0	0.0	4151.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.5	2.3
10°-20°	243.6	5.9
20°-30°	388.7	9.4
30°-40°	615.5	14.8
40°-50°	942.0	22.7
50°-60°	1009.0	24.3
60°-70°	634.8	15.3
70°-80°	187.7	4.5
80°-90°	33.2	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°	4151.0	100.0
0°-180°	4151.0	100.0

**Coefficient of Utilization**



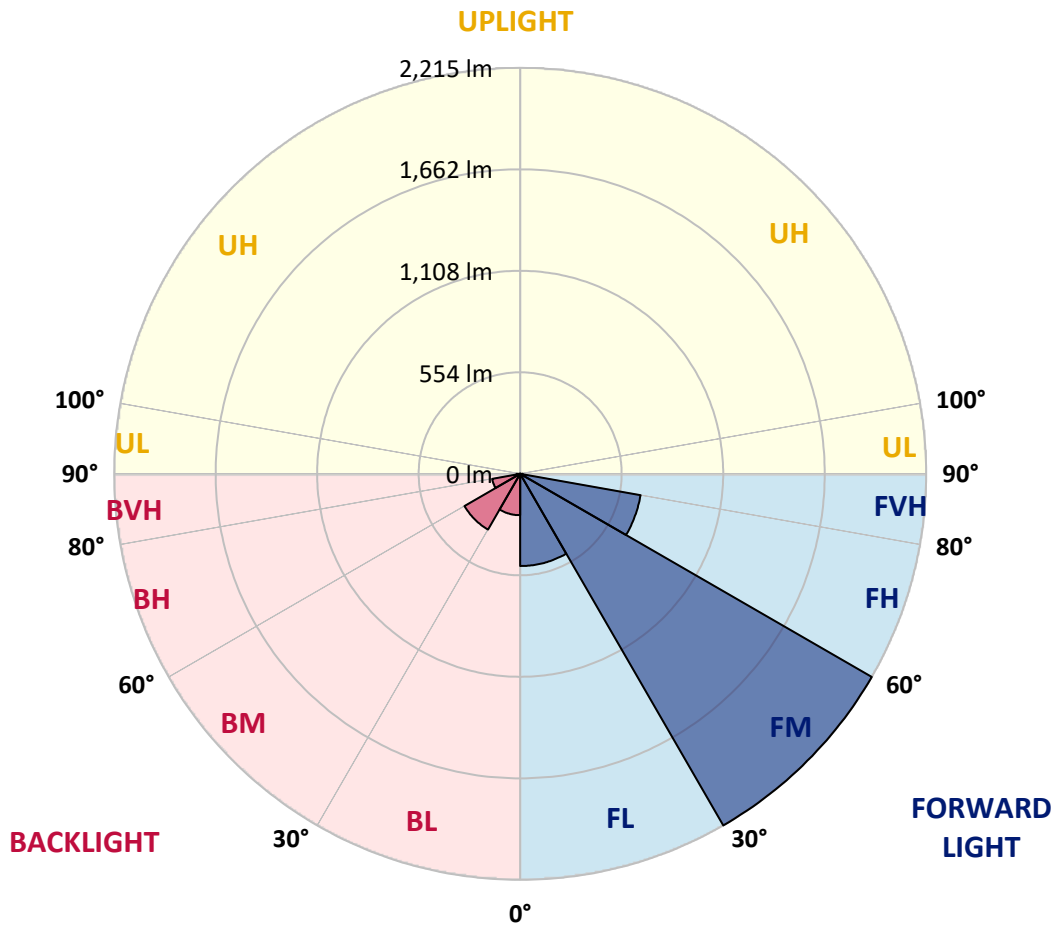
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	503.1	12.1			
FM (30°-60°)	2215.4	53.4			
FH (60°-80°)	667.4	16.1			G1/1800
FVH (80°-90°)	14.0	0.3			G1/100
BL (0°-30°)	225.8	5.4	B1/500		
BM (30°-60°)	351.1	8.5	B1/1000		
BH (60°-80°)	155.1	3.7	B1/500		G1/500
BVH (80°-90°)	19.2	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°	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1193.3	1192.5	1197.2	1181.1	1170.1	1155.3	1135.8	1110.9	1084.1	1055.8
5°	1300.8	1293.3	1298.3	1286.2	1274.2	1251.9	1222.9	1182.4	1132.8	1076.4
7.5°	1283.9	1278.7	1291.4	1302.1	1311.1	1308.3	1287.1	1244.6	1180.7	1098.7
10°	1147.2	1141.4	1159.2	1196.3	1250.8	1298.3	1324.0	1297.6	1229.6	1123.2
12.5°	1026.6	1023.8	1035.6	1065.6	1126.2	1217.1	1319.3	1344.0	1280.4	1152.1
15°	975.1	971.7	979.2	994.4	1033.0	1117.8	1276.4	1375.7	1330.4	1185.6
17.5°	963.7	959.9	963.1	971.0	995.9	1060.5	1211.6	1391.4	1382.6	1222.9
20°	984.7	981.5	982.0	981.5	998.9	1050.2	1166.5	1385.4	1428.1	1257.3
22.5°	1035.6	1030.2	1030.4	1019.1	1028.5	1068.2	1154.7	1369.3	1468.6	1287.3
25°	1118.4	1108.8	1110.7	1081.7	1079.2	1108.6	1173.2	1356.8	1509.0	1311.3
27.5°	1231.7	1220.8	1215.0	1171.9	1151.3	1165.9	1210.7	1361.1	1547.2	1332.2
30°	1373.4	1360.1	1348.3	1287.1	1249.8	1244.4	1269.1	1389.5	1592.2	1354.0
32.5°	1547.0	1531.5	1510.1	1428.9	1376.4	1348.3	1344.6	1439.9	1645.0	1381.9
35°	1753.6	1733.4	1703.0	1598.0	1531.5	1474.0	1444.2	1512.6	1717.3	1424.0
37.5°	1966.5	1943.7	1915.8	1790.9	1709.2	1624.4	1565.6	1611.3	1813.7	1481.1
40°	2162.8	2137.3	2111.3	2000.2	1912.4	1810.3	1714.3	1736.2	1931.5	1549.3
42.5°	2278.7	2259.8	2250.0	2189.9	2122.1	2018.4	1899.3	1884.3	2063.9	1627.9
45°	2273.6	2265.8	2296.3	2321.2	2305.1	2247.6	2116.0	2048.0	2196.7	1695.9
47.5°	2152.1	2157.2	2225.3	2365.2	2426.8	2456.8	2362.8	2208.7	2312.2	1746.7
50°	1821.6	1825.9	1983.4	2285.1	2458.1	2627.4	2607.7	2365.6	2401.7	1777.9
52.5°	1560.1	1562.8	1630.4	2047.8	2354.7	2713.2	2828.3	2513.5	2467.1	1786.4
55°	1175.1	1184.7	1260.5	1606.6	2085.6	2645.2	2962.6	2665.8	2508.5	1787.3
57.5°	686.5	697.0	790.5	1090.5	1621.0	2408.1	2983.0	2801.0	2536.6	1780.4
60°	336.3	340.8	381.5	573.2	999.5	1951.2	2819.0	2866.5	2552.3	1776.8
62.5°	226.6	226.0	227.7	282.8	492.5	1253.6	2477.4	2751.9	2543.9	1762.8
65°	194.8	192.5	186.0	198.5	255.1	573.4	1914.1	2409.8	2480.2	1727.9
67.5°	168.5	168.7	168.9	165.0	182.2	264.6	1169.7	1898.2	2251.5	1562.2
70°	139.5	141.4	142.3	142.3	148.5	173.6	499.3	1301.0	1775.9	1224.9
72.5°	127.0	123.0	123.4	121.2	121.2	132.2	201.1	737.5	1118.9	689.0
75°	103.6	106.2	106.7	105.1	100.2	100.9	119.3	309.4	478.7	285.8
77.5°	89.5	89.5	90.3	89.3	85.4	75.5	79.6	120.0	162.9	117.2
80°	71.9	71.7	75.3	77.5	71.5	55.8	50.9	66.3	72.3	51.5
82.5°	35.0	37.1	51.7	59.0	54.3	40.3	31.1	41.2	38.6	22.7
85°	20.4	19.3	23.2	32.8	31.1	22.3	15.0	21.5	20.2	11.6
87.5°	6.4	6.0	4.7	11.2	9.0	6.2	4.1	6.2	5.6	2.6
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°
1040.1	0°	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1	1040.1
1043.5	2.5°	1028.3	1003.0	977.9	954.9	941.0	932.0	922.9	912.9	909.0	903.2
1046.3	5°	1018.0	969.1	925.5	888.0	853.8	827.0	800.0	778.1	768.2	774.9
1055.1	7.5°	1012.0	941.2	874.0	805.1	738.8	685.8	639.7	607.3	592.7	596.3
1063.7	10°	1006.6	909.6	807.3	698.5	603.2	537.5	490.3	465.7	456.4	458.4
1075.3	12.5°	1001.7	874.2	726.8	583.7	482.4	439.0	425.5	425.7	427.5	428.7
1093.8	15°	1000.8	831.5	636.9	483.3	417.2	414.4	429.0	438.2	443.1	444.6
1109.2	17.5°	999.5	780.5	545.3	414.8	401.3	420.2	433.7	439.7	443.6	443.8
1124.2	20°	994.4	715.6	460.7	382.2	397.8	414.2	422.5	427.2	430.5	431.5
1135.6	22.5°	978.5	643.5	394.8	367.6	384.1	397.2	407.1	412.4	414.4	415.7
1137.7	25°	950.0	562.9	349.3	353.6	365.0	381.5	389.5	390.5	389.9	391.8
1132.4	27.5°	912.6	476.4	321.0	334.8	349.3	363.5	367.8	367.2	365.9	368.0
1123.2	30°	867.6	398.7	303.0	313.5	333.5	346.3	350.2	348.7	346.1	348.5
1118.4	32.5°	819.9	335.2	288.2	298.7	320.4	333.0	336.9	335.4	333.5	335.4
1123.8	35°	775.5	290.8	274.5	288.8	310.1	322.5	327.5	327.7	327.7	330.0
1138.0	37.5°	734.7	264.8	263.1	282.6	303.0	314.2	321.2	321.7	312.4	313.1
1162.0	40°	697.0	253.9	257.9	278.5	296.1	306.9	307.3	283.3	266.3	265.9
1189.5	42.5°	666.1	251.7	259.4	278.1	291.2	291.6	261.4	242.7	238.0	238.2
1214.8	45°	637.1	251.1	262.9	278.1	283.9	251.9	231.5	226.6	227.0	228.8
1226.2	47.5°	604.7	248.5	263.5	274.2	262.9	224.0	218.0	215.9	215.0	215.4
1223.6	50°	569.3	239.3	255.4	266.5	226.8	212.0	204.5	203.9	204.9	205.6
1209.2	52.5°	532.0	224.2	241.4	252.6	210.3	201.5	193.1	194.6	199.4	200.9
1194.2	55°	507.5	206.6	223.0	224.7	198.7	191.6	184.5	188.0	196.8	199.6
1185.2	57.5°	501.1	188.0	201.9	200.0	183.9	183.0	178.8	181.8	192.9	197.0
1184.7	60°	499.1	171.2	181.3	179.8	169.5	173.6	172.5	174.0	177.9	179.2
1180.4	62.5°	484.1	157.9	162.9	160.7	156.6	163.7	166.3	163.1	166.1	167.6
1151.0	65°	445.9	147.2	144.8	143.3	145.1	151.5	156.6	150.2	153.0	157.3
1037.7	67.5°	382.8	132.6	126.2	127.9	133.3	136.7	143.3	136.0	138.4	145.7
835.8	70°	309.6	114.2	108.4	113.3	118.5	125.5	126.6	121.7	127.3	135.4
510.1	72.5°	219.1	95.5	91.4	101.5	103.2	112.4	110.1	107.7	115.4	118.2
252.1	75°	151.9	77.0	74.7	82.4	88.6	96.6	94.8	97.6	113.9	115.2
126.0	77.5°	96.1	59.9	58.4	63.3	71.9	80.7	83.5	115.2	194.6	202.4
65.4	80°	55.8	44.6	42.9	46.8	54.3	62.4	80.5	141.4	128.3	126.8
29.4	82.5°	31.1	30.7	28.5	29.6	36.3	45.1	113.7	99.6	80.9	83.5
11.8	85°	14.6	18.0	15.5	14.8	20.4	52.8	76.0	56.9	37.8	36.9
2.6	87.5°	3.9	3.4	3.4	3.9	8.6	45.5	30.3	24.2	14.4	13.9
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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