

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: P945526

Luminaire Tested: **GALN-SB1B-950-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945526  
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-950-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

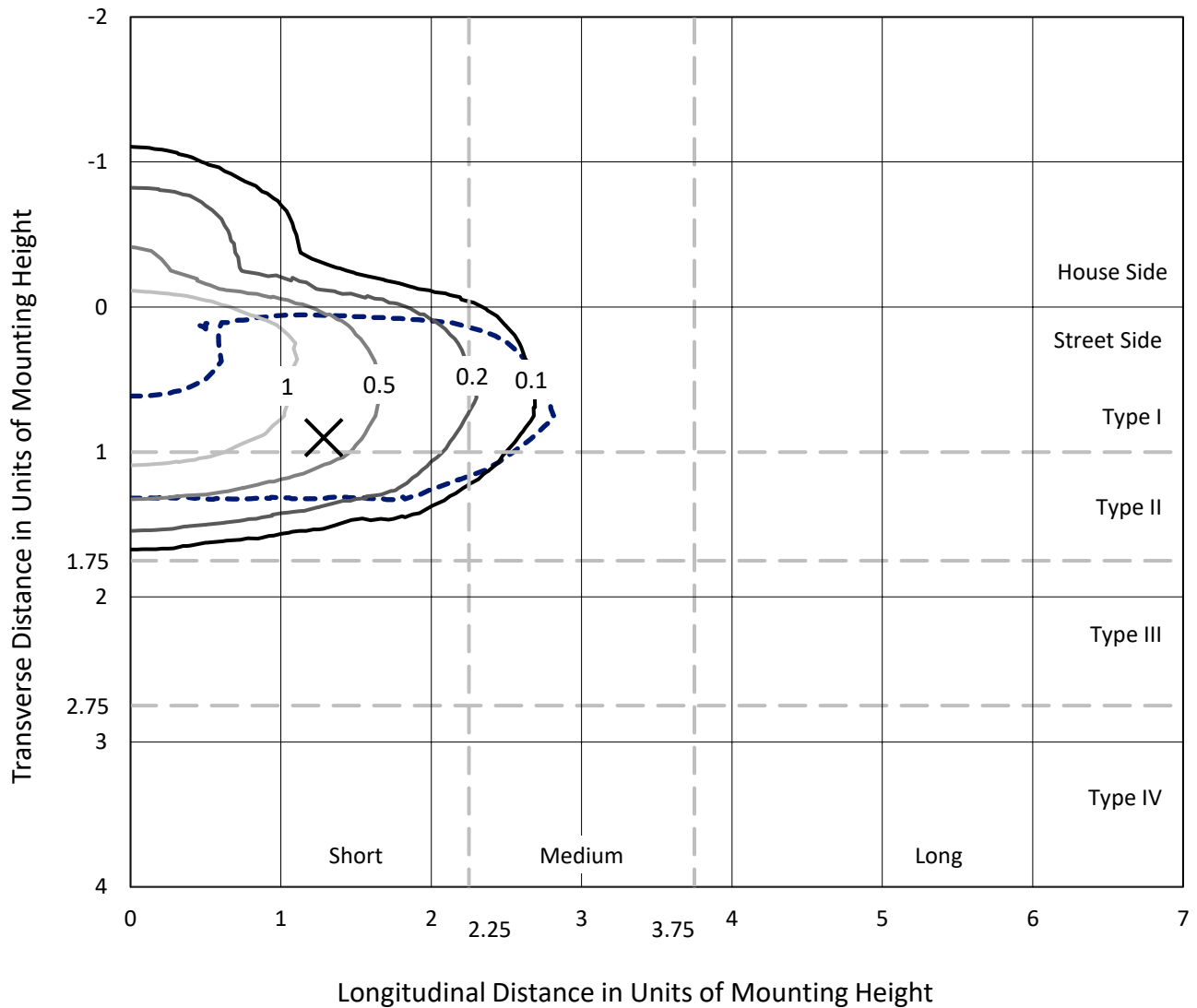
Lumens per Lamp: N/A  
Luminaire Lumens: 3985 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

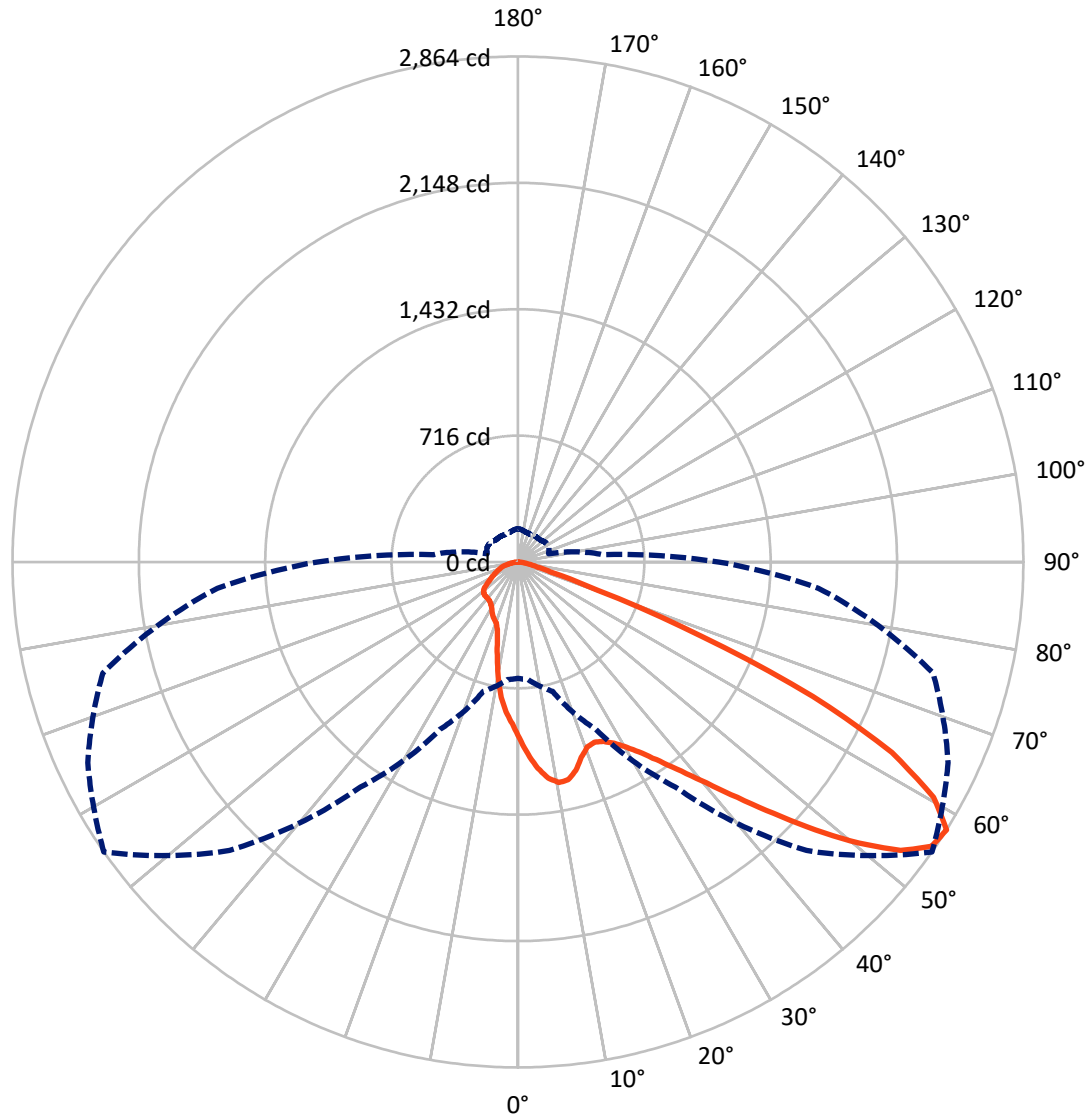
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	721.1	0.0	721.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	3263.9	0.0	3263.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	3985.0	0.0	3985.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.7	2.3
10°-20°	233.9	5.9
20°-30°	373.2	9.4
30°-40°	590.8	14.8
40°-50°	904.4	22.7
50°-60°	968.6	24.3
60°-70°	609.4	15.3
70°-80°	180.2	4.5
80°-90°	31.9	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°	3985.0	100.0
0°-180°	3985.0	100.0

**Coefficient of Utilization**



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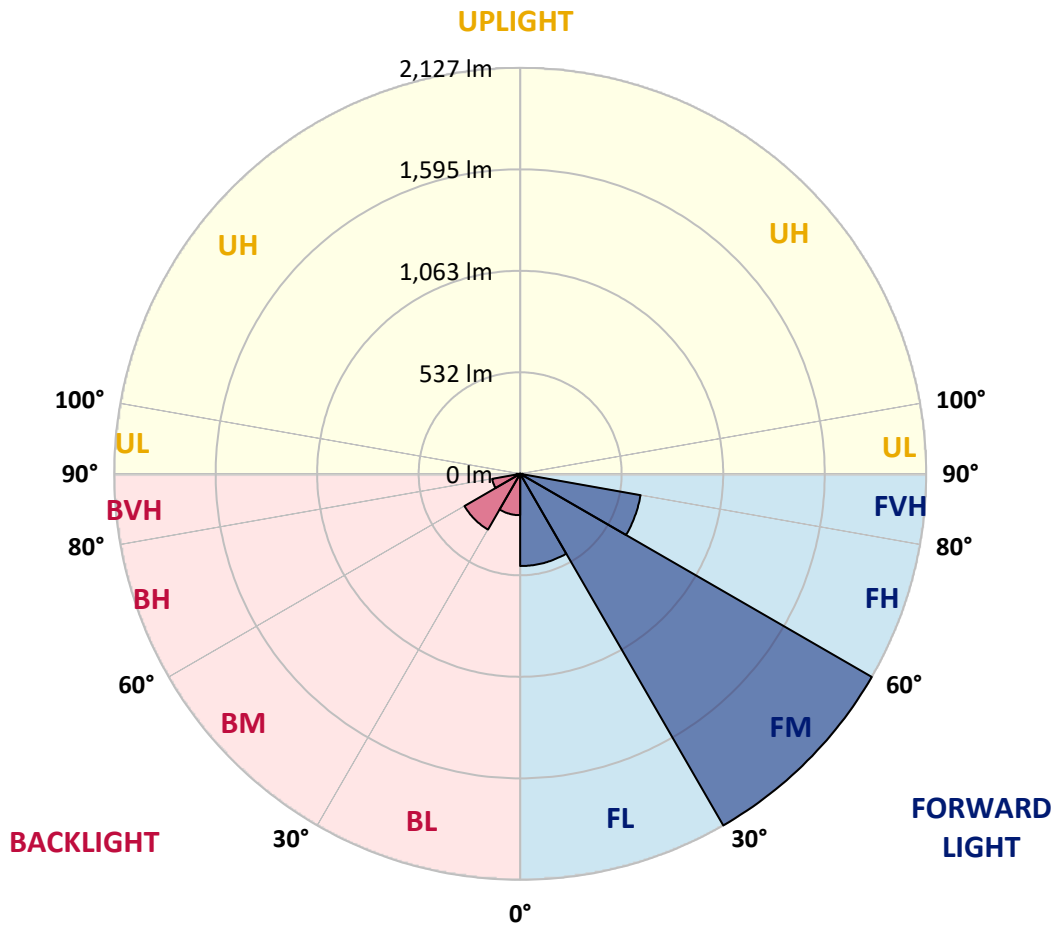
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.0	12.1			
FM (30°-60°)	2126.8	53.4			
FH (60°-80°)	640.7	16.1			G0/660
FVH (80°-90°)	13.5	0.3			G1/100
BL (0°-30°)	216.7	5.4	B1/500		
BM (30°-60°)	337.0	8.5	B1/1000		
BH (60°-80°)	148.9	3.7	B1/500		G1/500
BVH (80°-90°)	18.4	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°	998.5	998.5	998.5	998.5	998.5	998.5	998.5	998.5	998.5	998.5
2.5°	1145.6	1144.8	1149.3	1133.9	1123.4	1109.1	1090.4	1066.5	1040.7	1013.6
5°	1248.8	1241.6	1246.3	1234.8	1223.3	1201.8	1174.0	1135.1	1087.5	1033.3
7.5°	1232.5	1227.6	1239.7	1250.0	1258.7	1256.0	1235.6	1194.8	1133.4	1054.8
10°	1101.3	1095.7	1112.8	1148.5	1200.8	1246.3	1271.1	1245.7	1180.4	1078.2
12.5°	985.5	982.9	994.2	1023.0	1081.1	1168.5	1266.5	1290.2	1229.2	1106.0
15°	936.1	932.8	940.0	954.6	991.7	1073.1	1225.3	1320.7	1277.2	1138.2
17.5°	925.2	921.5	924.6	932.2	956.1	1018.1	1163.1	1335.7	1327.3	1174.0
20°	945.4	942.3	942.7	942.3	959.0	1008.2	1119.8	1330.0	1371.0	1207.0
22.5°	994.2	989.0	989.2	978.3	987.4	1025.5	1108.5	1314.5	1409.9	1235.8
25°	1073.7	1064.4	1066.3	1038.5	1036.0	1064.2	1126.2	1302.6	1448.6	1258.9
27.5°	1182.5	1172.0	1166.4	1125.0	1105.2	1119.2	1162.3	1306.7	1485.3	1278.9
30°	1318.4	1305.7	1294.3	1235.6	1199.8	1194.6	1218.3	1333.9	1528.6	1299.9
32.5°	1485.1	1470.3	1449.7	1371.8	1321.3	1294.3	1290.8	1382.3	1579.2	1326.7
35°	1683.5	1664.1	1634.9	1534.1	1470.3	1415.1	1386.4	1452.1	1648.7	1367.1
37.5°	1887.8	1866.0	1839.2	1719.3	1640.8	1559.5	1503.0	1546.9	1741.2	1421.9
40°	2076.3	2051.8	2026.9	1920.2	1835.9	1737.9	1645.8	1666.8	1854.3	1487.4
42.5°	2187.6	2169.5	2160.0	2102.3	2037.2	1937.7	1823.4	1808.9	1981.4	1562.8
45°	2182.6	2175.2	2204.5	2228.4	2212.9	2157.7	2031.4	1966.1	2108.9	1628.1
47.5°	2066.0	2071.0	2136.3	2270.6	2329.7	2358.6	2268.3	2120.4	2219.7	1676.9
50°	1748.8	1752.9	1904.1	2193.8	2359.8	2522.3	2503.4	2271.0	2305.6	1706.8
52.5°	1497.7	1500.3	1565.2	1965.9	2260.5	2604.7	2715.2	2412.9	2368.5	1715.0
55°	1128.1	1137.4	1210.1	1542.4	2002.2	2539.4	2844.1	2559.2	2408.2	1715.8
57.5°	659.0	669.1	758.9	1046.9	1556.2	2311.8	2863.7	2689.0	2435.2	1709.2
60°	322.8	327.1	366.3	550.2	959.6	1873.2	2706.3	2751.8	2450.2	1705.7
62.5°	217.5	216.9	218.6	271.5	472.8	1203.5	2378.3	2641.8	2442.2	1692.3
65°	187.1	184.8	178.6	190.6	244.9	550.4	1837.6	2313.4	2381.0	1658.8
67.5°	161.7	161.9	162.1	158.4	174.9	254.0	1122.9	1822.3	2161.4	1499.7
70°	133.9	135.8	136.6	136.6	142.6	166.7	479.4	1249.0	1704.9	1175.9
72.5°	122.0	118.0	118.5	116.4	116.4	126.9	193.0	708.0	1074.1	661.5
75°	99.5	102.0	102.4	100.9	96.2	96.8	114.5	297.1	459.6	274.4
77.5°	85.9	85.9	86.7	85.7	82.0	72.5	76.4	115.2	156.4	112.5
80°	69.0	68.8	72.3	74.4	68.6	53.6	48.8	63.7	69.4	49.4
82.5°	33.6	35.6	49.6	56.7	52.1	38.7	29.9	39.6	37.1	21.8
85°	19.6	18.5	22.2	31.5	29.9	21.4	14.4	20.6	19.4	11.1
87.5°	6.2	5.8	4.5	10.7	8.7	6.0	3.9	6.0	5.4	2.5
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°
998.5	0°	998.5	998.5	998.5	998.5	998.5	998.5	998.5	998.5	998.5	998.5
1001.8	2.5°	987.2	962.9	938.8	916.7	903.3	894.7	886.0	876.4	872.6	867.1
1004.5	5°	977.3	930.3	888.5	852.5	819.7	793.9	768.0	747.0	737.5	743.9
1012.9	7.5°	971.5	903.5	839.1	772.9	709.3	658.4	614.1	583.0	569.0	572.5
1021.2	10°	966.4	873.3	775.0	670.5	579.1	516.0	470.7	447.0	438.2	440.0
1032.3	12.5°	961.6	839.3	697.7	560.3	463.1	421.5	408.5	408.7	410.4	411.6
1050.0	15°	960.8	798.3	611.4	463.9	400.5	397.8	411.8	420.7	425.4	426.8
1064.8	17.5°	959.6	749.2	523.5	398.2	385.2	403.4	416.3	422.1	425.8	426.0
1079.3	20°	954.6	687.0	442.3	366.9	381.9	397.6	405.6	410.2	413.2	414.3
1090.2	22.5°	939.4	617.8	379.1	352.9	368.8	381.3	390.8	395.9	397.8	399.0
1092.2	25°	912.0	540.4	335.4	339.5	350.4	366.3	373.9	374.9	374.3	376.2
1087.1	27.5°	876.1	457.3	308.2	321.4	335.4	349.0	353.1	352.5	351.2	353.3
1078.2	30°	832.9	382.8	290.9	301.0	320.1	332.5	336.2	334.8	332.3	334.6
1073.7	32.5°	787.1	321.8	276.7	286.8	307.6	319.7	323.4	322.0	320.1	322.0
1078.9	35°	744.5	279.1	263.5	277.3	297.7	309.6	314.4	314.6	314.6	316.8
1092.5	37.5°	705.4	254.2	252.6	271.3	290.9	301.6	308.4	308.8	299.9	300.6
1115.5	40°	669.1	243.7	247.6	267.4	284.3	294.6	295.0	271.9	255.7	255.2
1141.9	42.5°	639.4	241.6	249.1	267.0	279.6	280.0	250.9	233.0	228.5	228.7
1166.2	45°	611.6	241.0	252.4	267.0	272.5	241.9	222.3	217.5	218.0	219.6
1177.1	47.5°	580.5	238.6	253.0	263.3	252.4	215.1	209.3	207.2	206.4	206.8
1174.6	50°	546.5	229.7	245.1	255.9	217.7	203.5	196.3	195.7	196.7	197.4
1160.8	52.5°	510.7	215.3	231.8	242.5	201.9	193.4	185.4	186.8	191.4	192.8
1146.4	55°	487.2	198.4	214.0	215.7	190.8	184.0	177.2	180.5	188.9	191.6
1137.8	57.5°	481.0	180.5	193.9	192.0	176.5	175.7	171.6	174.5	185.2	189.1
1137.4	60°	479.2	164.4	174.1	172.6	162.7	166.7	165.6	167.1	170.8	172.0
1133.2	62.5°	464.7	151.6	156.4	154.3	150.4	157.2	159.7	156.6	159.4	160.9
1105.0	65°	428.1	141.3	139.1	137.6	139.3	145.4	150.4	144.2	146.9	151.0
996.2	67.5°	367.5	127.3	121.1	122.8	127.9	131.2	137.6	130.6	132.9	139.9
802.4	70°	297.3	109.6	104.0	108.8	113.7	120.5	121.5	116.8	122.2	130.0
489.7	72.5°	210.3	91.7	87.8	97.4	99.1	107.9	105.7	103.4	110.8	113.5
242.1	75°	145.9	74.0	71.7	79.1	85.1	92.7	91.1	93.7	109.4	110.6
120.9	77.5°	92.3	57.5	56.0	60.8	69.0	77.5	80.1	110.6	186.8	194.3
62.8	80°	53.6	42.8	41.2	44.9	52.1	59.9	77.3	135.8	123.2	121.7
28.2	82.5°	29.9	29.5	27.4	28.4	34.8	43.3	109.2	95.6	77.7	80.1
11.3	85°	14.0	17.3	14.8	14.2	19.6	50.7	72.9	54.6	36.3	35.4
2.5	87.5°	3.7	3.3	3.3	3.7	8.2	43.7	29.0	23.3	13.8	13.4
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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