

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: P945085

Luminaire Tested: **GALN-SB1A-927-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945085  
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-927-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

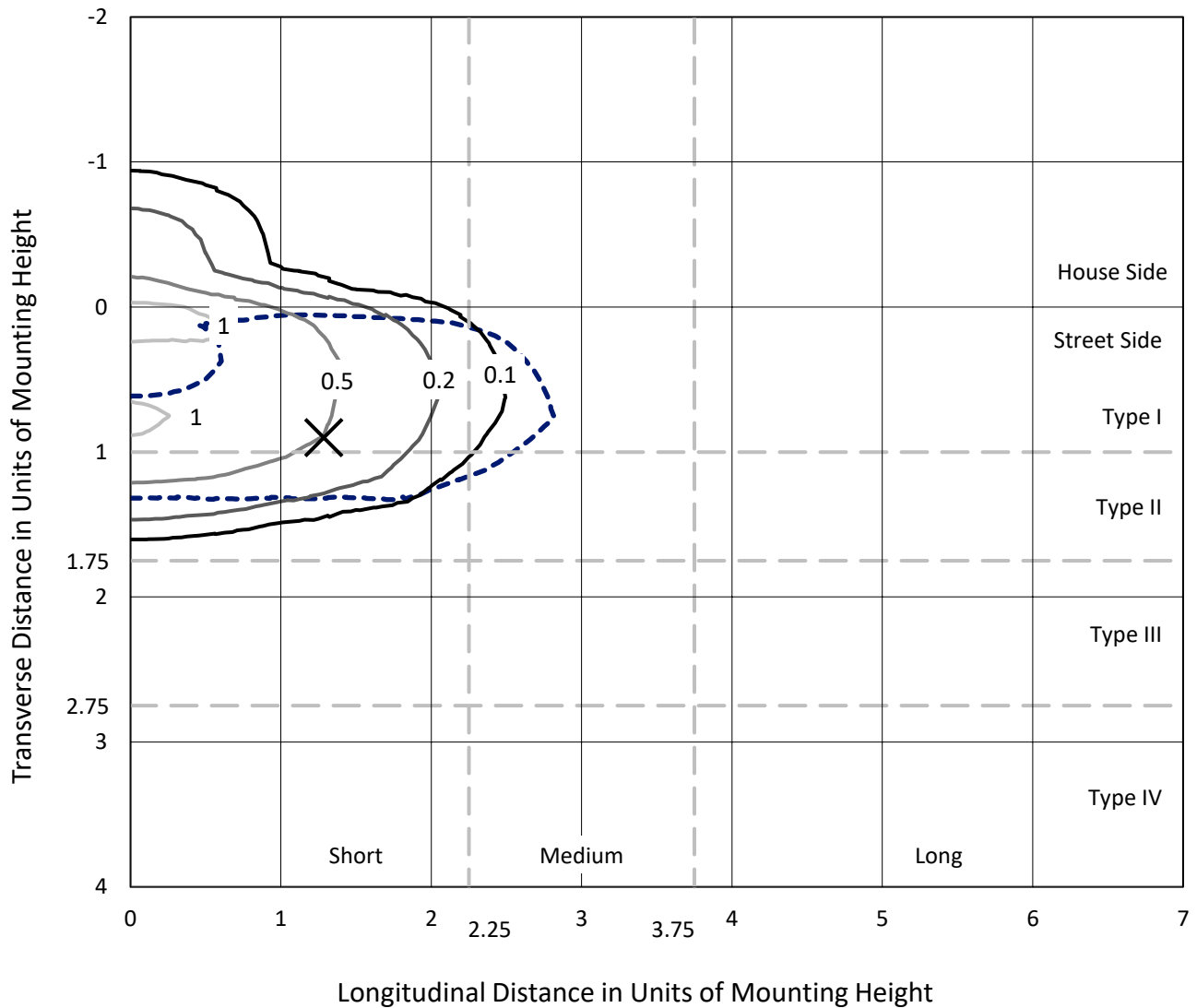
Lumens per Lamp: N/A  
Luminaire Lumens: 2778 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

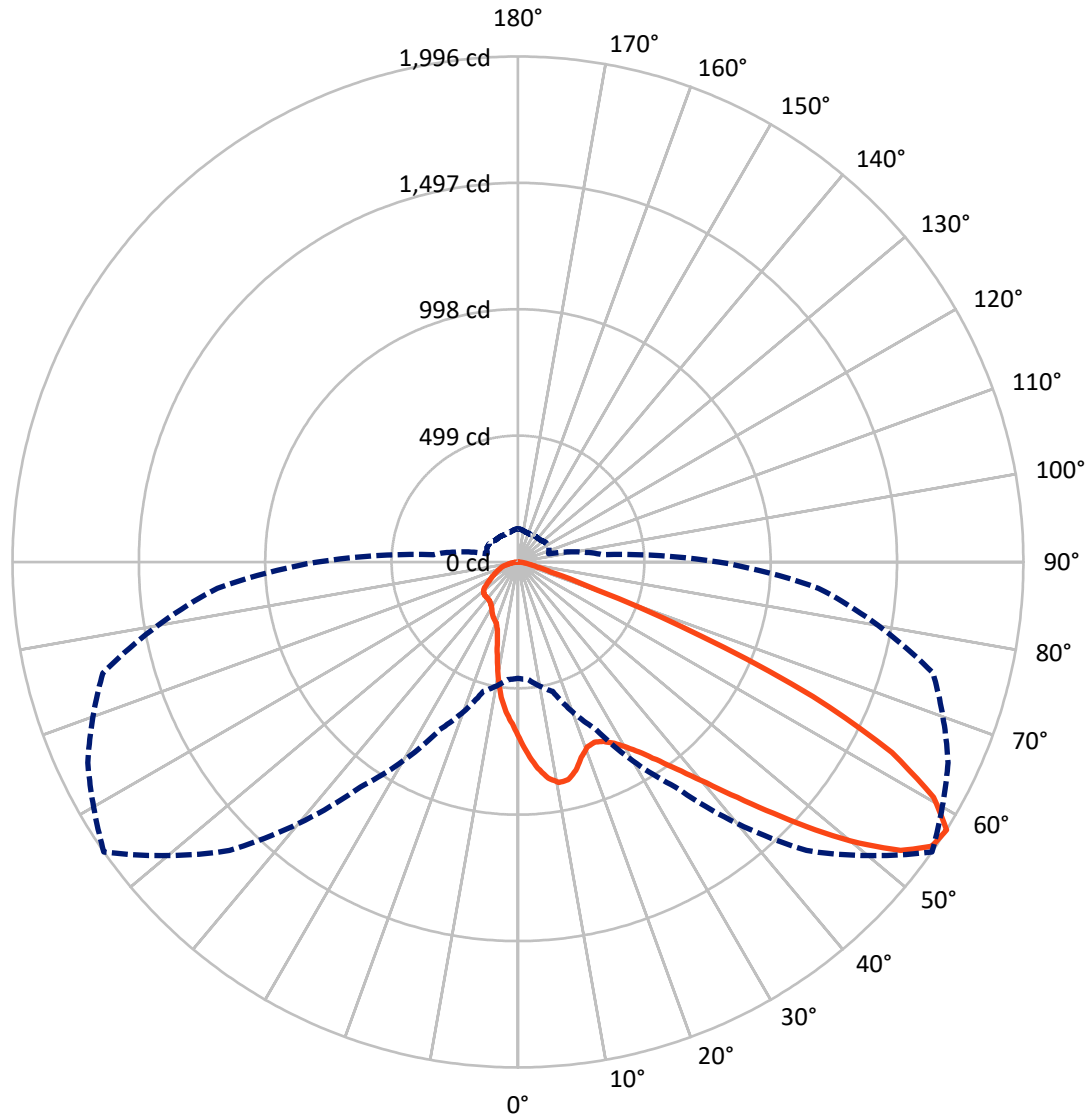
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	502.7	0.0	502.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	2275.3	0.0	2275.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	2778.0	0.0	2778.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.6	2.3
10°-20°	163.0	5.9
20°-30°	260.2	9.4
30°-40°	411.9	14.8
40°-50°	630.4	22.7
50°-60°	675.3	24.3
60°-70°	424.8	15.3
70°-80°	125.6	4.5
80°-90°	22.2	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°	2778.0	100.0
0°-180°	2778.0	100.0

**Coefficient of Utilization**



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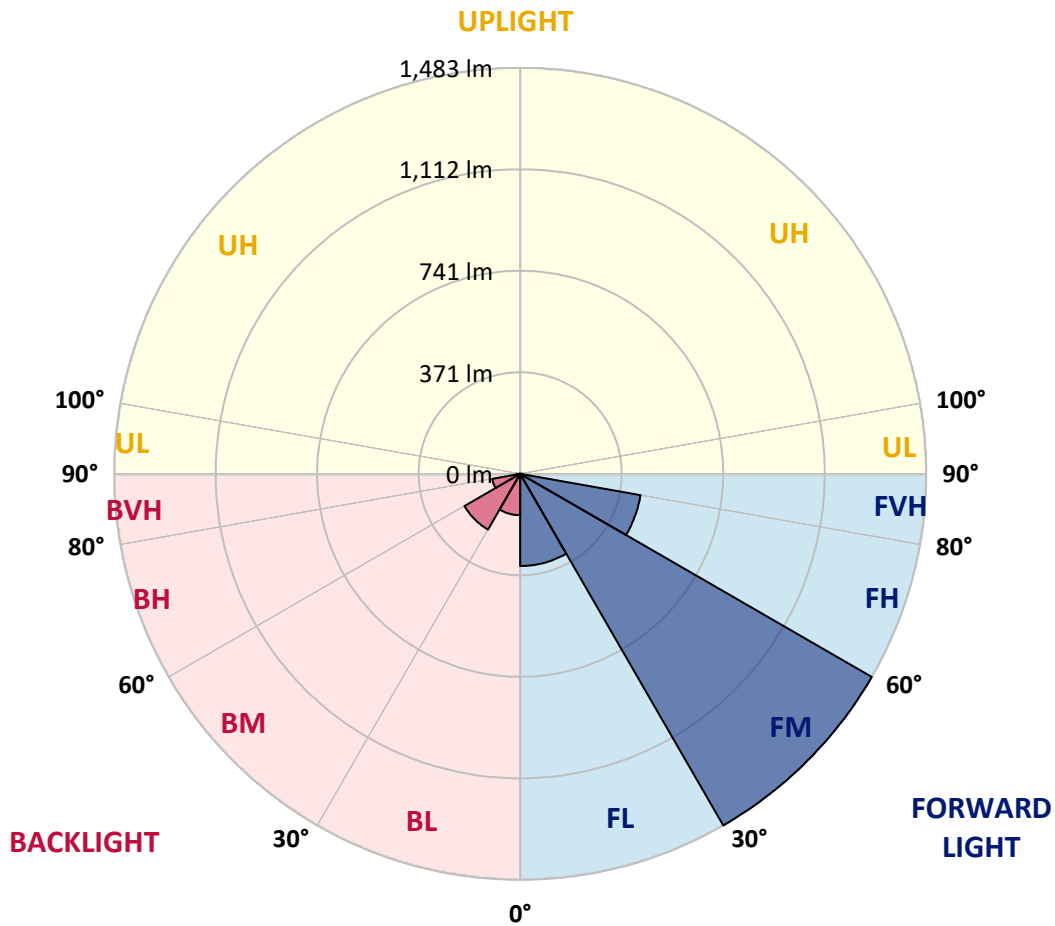
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	336.7	12.1			
FM (30°-60°)	1482.6	53.4			
FH (60°-80°)	446.6	16.1			G0/660
FVH (80°-90°)	9.4	0.3			G0/10
BL (0°-30°)	151.1	5.4	B1/500		
BM (30°-60°)	234.9	8.5	B1/1000		
BH (60°-80°)	103.8	3.7	B0/110		G0/110
BVH (80°-90°)	12.8	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°	696.1	696.1	696.1	696.1	696.1	696.1	696.1	696.1	696.1	696.1
2.5°	798.6	798.0	801.2	790.4	783.1	773.2	760.1	743.5	725.5	706.6
5°	870.6	865.5	868.8	860.8	852.8	837.8	818.4	791.3	758.1	720.3
7.5°	859.2	855.8	864.2	871.4	877.5	875.6	861.4	832.9	790.1	735.3
10°	767.7	763.9	775.8	800.6	837.1	868.8	886.1	868.4	822.9	751.7
12.5°	687.0	685.2	693.1	713.2	753.7	814.6	882.9	899.4	856.9	771.0
15°	652.6	650.3	655.3	665.5	691.3	748.1	854.2	920.7	890.4	793.4
17.5°	645.0	642.4	644.5	649.8	666.5	709.7	810.8	931.2	925.3	818.4
20°	659.0	656.9	657.2	656.9	668.5	702.8	780.7	927.1	955.7	841.4
22.5°	693.1	689.5	689.6	682.0	688.3	714.9	772.8	916.4	982.9	861.5
25°	748.5	742.0	743.3	723.9	722.2	741.9	785.1	908.0	1009.9	877.6
27.5°	824.3	817.0	813.1	784.3	770.5	780.2	810.2	910.9	1035.4	891.5
30°	919.1	910.2	902.3	861.4	836.4	832.8	849.3	929.9	1065.6	906.2
32.5°	1035.3	1024.9	1010.6	956.3	921.1	902.3	899.9	963.6	1100.9	924.8
35°	1173.6	1160.1	1139.7	1069.5	1024.9	986.5	966.5	1012.3	1149.3	953.0
37.5°	1316.0	1300.8	1282.1	1198.6	1143.9	1087.1	1047.8	1078.4	1213.8	991.2
40°	1447.4	1430.4	1413.0	1338.6	1279.9	1211.5	1147.3	1161.9	1292.6	1036.9
42.5°	1525.0	1512.4	1505.7	1465.5	1420.2	1350.8	1271.1	1261.0	1381.2	1089.4
45°	1521.5	1516.4	1536.8	1553.4	1542.7	1504.2	1416.1	1370.6	1470.1	1134.9
47.5°	1440.3	1443.7	1489.2	1582.9	1624.1	1644.2	1581.3	1478.2	1547.4	1169.0
50°	1219.1	1222.0	1327.4	1529.3	1645.1	1758.4	1745.1	1583.2	1607.3	1189.8
52.5°	1044.0	1045.9	1091.1	1370.5	1575.8	1815.8	1892.8	1682.1	1651.1	1195.6
55°	786.4	792.9	843.6	1075.2	1395.7	1770.3	1982.7	1784.1	1678.8	1196.1
57.5°	459.4	466.4	529.1	729.8	1084.8	1611.6	1996.3	1874.5	1697.6	1191.5
60°	225.0	228.1	255.3	383.6	668.9	1305.8	1886.6	1918.3	1708.1	1189.1
62.5°	151.7	151.2	152.4	189.3	329.6	839.0	1658.0	1841.7	1702.5	1179.8
65°	130.4	128.8	124.5	132.8	170.8	383.7	1281.0	1612.7	1659.8	1156.3
67.5°	112.7	112.9	113.0	110.4	121.9	177.1	782.8	1270.4	1506.8	1045.5
70°	93.3	94.6	95.2	95.2	99.4	116.2	334.2	870.7	1188.5	819.7
72.5°	85.0	82.3	82.6	81.1	81.1	88.5	134.6	493.6	748.8	461.1
75°	69.4	71.1	71.4	70.4	67.1	67.5	79.8	207.1	320.4	191.3
77.5°	59.9	59.9	60.5	59.7	57.2	50.6	53.3	80.3	109.0	78.4
80°	48.1	48.0	50.4	51.8	47.8	37.3	34.0	44.4	48.4	34.5
82.5°	23.4	24.8	34.6	39.5	36.3	27.0	20.8	27.6	25.8	15.2
85°	13.6	12.9	15.5	22.0	20.8	14.9	10.1	14.4	13.5	7.8
87.5°	4.3	4.0	3.2	7.5	6.0	4.2	2.7	4.2	3.7	1.7
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°
696.1	0°	696.1	696.1	696.1	696.1	696.1	696.1	696.1	696.1	696.1	696.1
698.4	2.5°	688.2	671.2	654.4	639.1	629.7	623.7	617.7	610.9	608.3	604.5
700.2	5°	681.3	648.5	619.4	594.3	571.4	553.5	535.4	520.7	514.1	518.6
706.1	7.5°	677.3	629.9	584.9	538.8	494.4	459.0	428.1	406.4	396.7	399.1
711.9	10°	673.7	608.8	540.3	467.4	403.7	359.7	328.1	311.6	305.5	306.8
719.6	12.5°	670.4	585.1	486.4	390.6	322.8	293.8	284.8	284.9	286.1	286.9
732.0	15°	669.8	556.5	426.2	323.4	279.2	277.3	287.1	293.3	296.6	297.6
742.3	17.5°	668.9	522.3	364.9	277.6	268.6	281.2	290.2	294.3	296.8	297.0
752.4	20°	665.5	478.9	308.3	255.8	266.3	277.2	282.8	285.9	288.1	288.8
760.0	22.5°	654.9	430.7	264.2	246.0	257.1	265.8	272.4	276.0	277.3	278.2
761.4	25°	635.8	376.7	233.8	236.7	244.3	255.3	260.7	261.4	260.9	262.2
757.8	27.5°	610.8	318.8	214.8	224.0	233.8	243.3	246.1	245.7	244.9	246.3
751.7	30°	580.6	266.8	202.8	209.8	223.2	231.8	234.4	233.4	231.6	233.2
748.5	32.5°	548.7	224.3	192.9	199.9	214.4	222.9	225.5	224.5	223.2	224.5
752.1	35°	519.0	194.6	183.7	193.3	207.5	215.8	219.1	219.3	219.3	220.9
761.6	37.5°	491.7	177.2	176.1	189.1	202.8	210.2	215.0	215.3	209.1	209.5
777.6	40°	466.4	169.9	172.6	186.4	198.2	205.4	205.6	189.6	178.2	177.9
796.0	42.5°	445.8	168.5	173.6	186.1	194.9	195.2	174.9	162.4	159.3	159.4
813.0	45°	426.4	168.0	175.9	186.1	190.0	168.6	155.0	151.7	151.9	153.1
820.6	47.5°	404.7	166.3	176.4	183.5	175.9	149.9	145.9	144.5	143.9	144.2
818.9	50°	381.0	160.1	170.9	178.4	151.8	141.9	136.9	136.4	137.1	137.6
809.2	52.5°	356.0	150.1	161.6	169.0	140.7	134.8	129.2	130.3	133.4	134.4
799.2	55°	339.6	138.3	149.2	150.4	133.0	128.2	123.5	125.8	131.7	133.6
793.2	57.5°	335.3	125.8	135.1	133.8	123.1	122.5	119.6	121.6	129.1	131.8
792.9	60°	334.0	114.6	121.4	120.3	113.5	116.2	115.5	116.5	119.1	119.9
790.0	62.5°	324.0	105.7	109.0	107.6	104.8	109.6	111.3	109.1	111.2	112.2
770.3	65°	298.4	98.5	96.9	95.9	97.1	101.4	104.8	100.5	102.4	105.3
694.5	67.5°	256.2	88.8	84.4	85.6	89.2	91.5	95.9	91.0	92.6	97.5
559.4	70°	207.2	76.4	72.5	75.8	79.3	84.0	84.7	81.4	85.2	90.6
341.4	72.5°	146.6	63.9	61.2	67.9	69.1	75.3	73.7	72.1	77.3	79.1
168.7	75°	101.7	51.6	50.0	55.1	59.3	64.6	63.5	65.3	76.3	77.1
84.3	77.5°	64.3	40.1	39.1	42.4	48.1	54.0	55.9	77.1	130.3	135.4
43.8	80°	37.3	29.9	28.7	31.3	36.3	41.8	53.9	94.6	85.9	84.9
19.7	82.5°	20.8	20.5	19.1	19.8	24.3	30.2	76.1	66.6	54.1	55.9
7.9	85°	9.8	12.1	10.3	9.9	13.6	35.3	50.8	38.1	25.3	24.7
1.7	87.5°	2.6	2.3	2.3	2.6	5.7	30.4	20.2	16.2	9.6	9.3
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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