

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: P945442

Luminaire Tested: **GALN-SB1B-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945442
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-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3487 lumens
Efficiency: N/A
Efficacy: 87.6 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

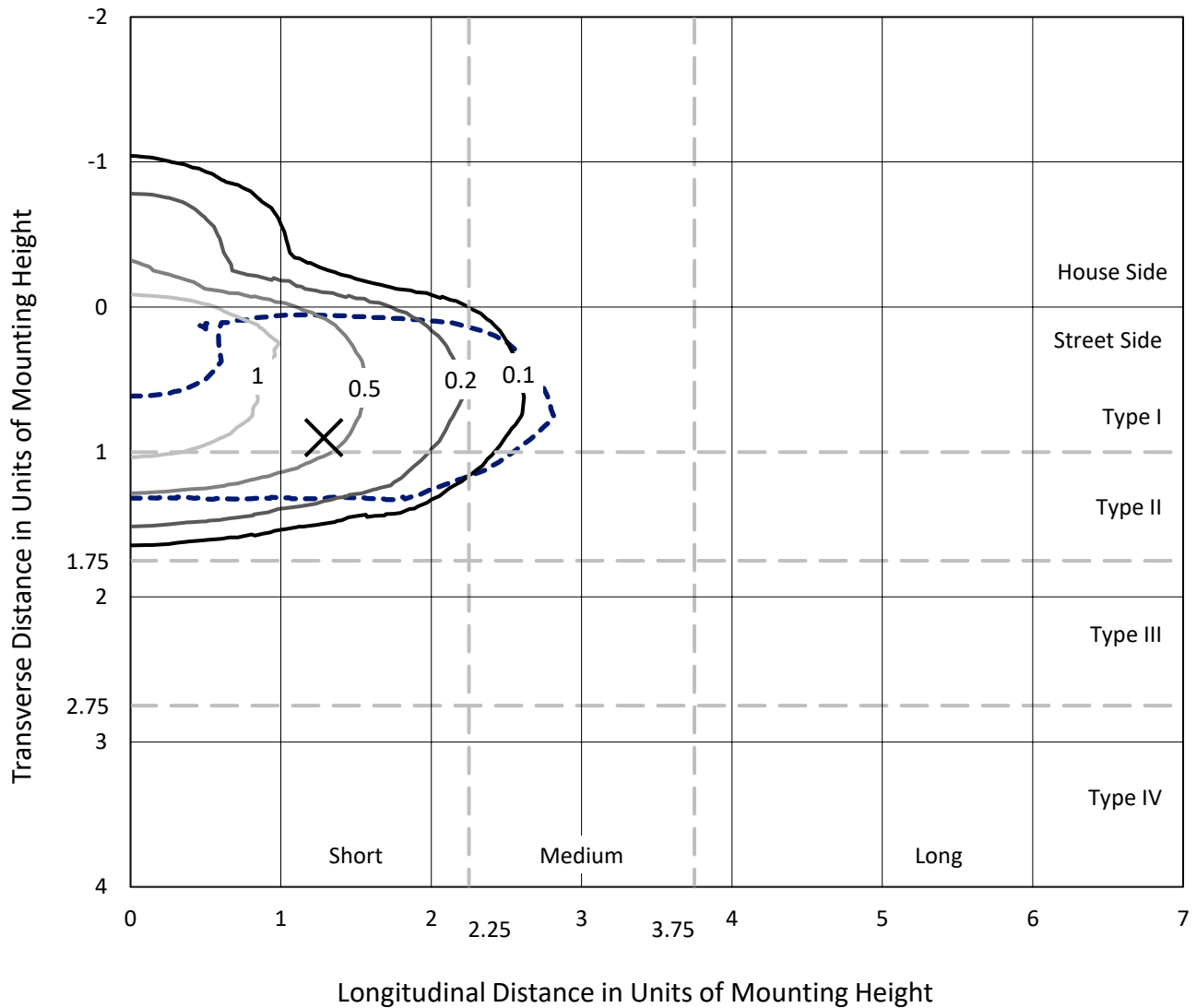
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

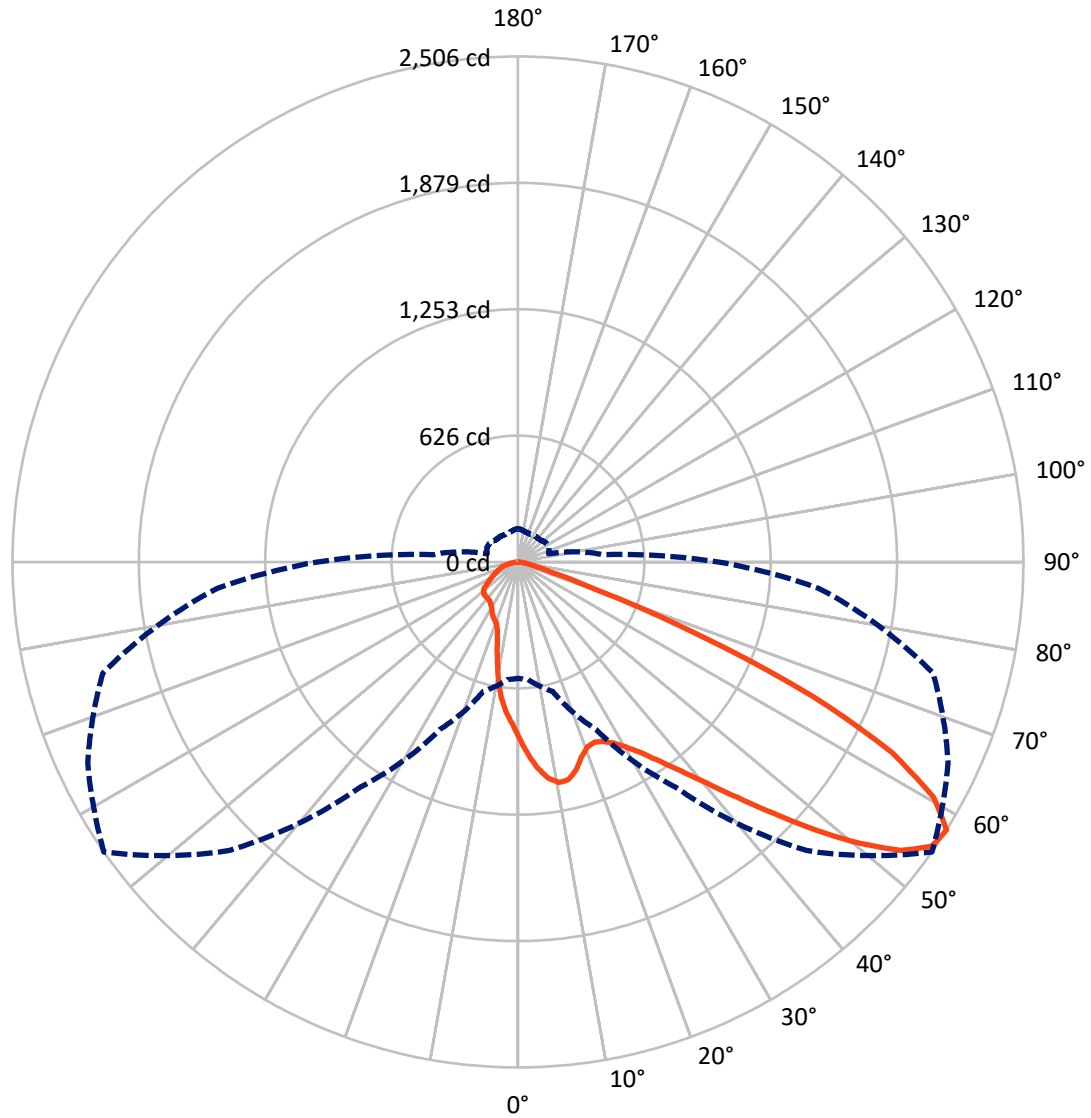
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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
House Side	Lumens	631.0	0.0	631.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2856.0	0.0	2856.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	3487.0	0.0	3487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	2.3
10°-20°	204.6	5.9
20°-30°	326.6	9.4
30°-40°	517.0	14.8
40°-50°	791.3	22.7
50°-60°	847.6	24.3
60°-70°	533.2	15.3
70°-80°	157.7	4.5
80°-90°	27.9	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°	3487.0	100.0
0°-180°	3487.0	100.0

Coefficient of Utilization



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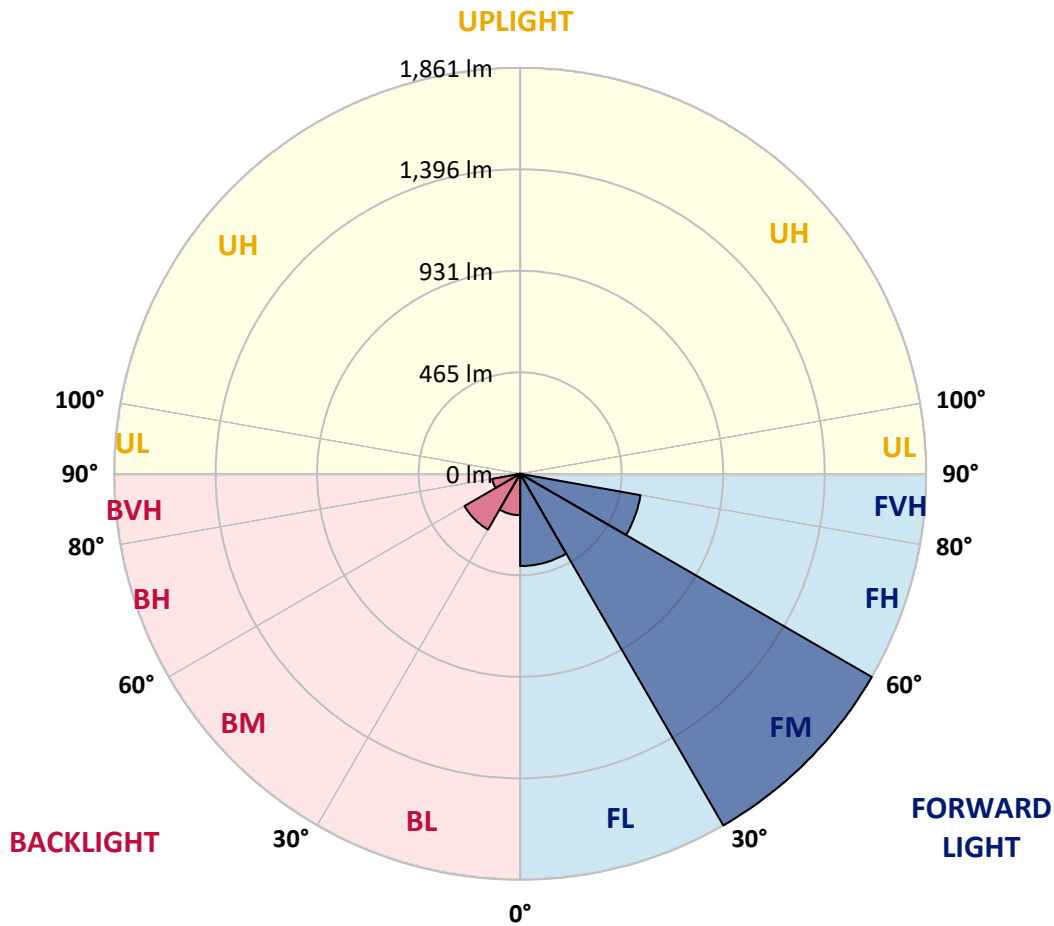
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.6	12.1			
FM (30°-60°)	1861.0	53.4			
FH (60°-80°)	560.6	16.1			G0/660
FVH (80°-90°)	11.8	0.3			G1/100
BL (0°-30°)	189.6	5.4	B1/500		
BM (30°-60°)	294.9	8.5	B1/1000		
BH (60°-80°)	130.3	3.7	B1/500		G1/500
BVH (80°-90°)	16.1	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°	873.7	873.7	873.7	873.7	873.7	873.7	873.7	873.7	873.7	873.7
2.5°	1002.4	1001.7	1005.7	992.2	983.0	970.5	954.1	933.2	910.7	886.9
5°	1092.7	1086.4	1090.6	1080.5	1070.4	1051.6	1027.3	993.2	951.6	904.2
7.5°	1078.5	1074.2	1084.8	1093.8	1101.4	1099.1	1081.2	1045.5	991.8	922.9
10°	963.7	958.8	973.8	1005.0	1050.7	1090.6	1112.2	1090.0	1032.9	943.5
12.5°	862.4	860.0	869.9	895.2	946.0	1022.4	1108.2	1129.0	1075.6	967.8
15°	819.1	816.2	822.5	835.3	867.8	939.0	1072.2	1155.7	1117.6	995.9
17.5°	809.6	806.3	809.0	815.7	836.6	890.9	1017.8	1168.8	1161.4	1027.3
20°	827.2	824.5	824.9	824.5	839.1	882.2	979.9	1163.8	1199.6	1056.2
22.5°	869.9	865.4	865.6	856.1	864.0	897.3	970.0	1150.3	1233.7	1081.4
25°	939.5	931.4	933.0	908.7	906.5	931.2	985.5	1139.8	1267.6	1101.6
27.5°	1034.7	1025.5	1020.6	984.4	967.1	979.4	1017.0	1143.4	1299.7	1119.1
30°	1153.7	1142.5	1132.6	1081.2	1049.8	1045.3	1066.1	1167.2	1337.5	1137.5
32.5°	1299.5	1286.5	1268.5	1200.4	1156.2	1132.6	1129.5	1209.6	1381.9	1160.9
35°	1473.1	1456.2	1430.6	1342.4	1286.5	1238.2	1213.2	1270.7	1442.6	1196.2
37.5°	1651.9	1632.8	1609.4	1504.5	1435.8	1364.6	1315.2	1353.6	1523.6	1244.2
40°	1816.9	1795.4	1773.6	1680.2	1606.5	1520.7	1440.1	1458.5	1622.5	1301.5
42.5°	1914.2	1898.3	1890.0	1839.6	1782.6	1695.5	1595.5	1582.9	1733.8	1367.5
45°	1909.9	1903.4	1929.0	1949.9	1936.4	1888.1	1777.6	1720.4	1845.3	1424.6
47.5°	1807.8	1812.2	1869.3	1986.8	2038.6	2063.8	1984.9	1855.4	1942.3	1467.3
50°	1530.2	1533.8	1666.2	1919.6	2064.9	2207.1	2190.5	1987.2	2017.5	1493.5
52.5°	1310.5	1312.8	1369.6	1720.2	1978.0	2279.2	2375.9	2111.4	2072.5	1500.7
55°	987.1	995.2	1058.9	1349.6	1752.0	2222.1	2488.7	2239.4	2107.3	1501.4
57.5°	576.7	585.5	664.1	916.1	1361.7	2022.9	2505.8	2353.0	2130.9	1495.6
60°	282.5	286.3	320.5	481.5	839.7	1639.1	2368.1	2407.9	2144.0	1492.6
62.5°	190.4	189.8	191.3	237.6	413.7	1053.1	2081.1	2311.7	2137.0	1480.9
65°	163.7	161.7	156.3	166.7	214.3	481.7	1607.9	2024.3	2083.5	1451.5
67.5°	141.5	141.7	141.9	138.6	153.0	222.3	982.6	1594.6	1891.3	1312.3
70°	117.2	118.8	119.5	119.5	124.7	145.8	419.5	1092.9	1491.8	1028.9
72.5°	106.7	103.3	103.7	101.8	101.8	111.0	168.9	619.6	939.9	578.8
75°	87.1	89.2	89.6	88.3	84.2	84.7	100.2	259.9	402.2	240.1
77.5°	75.2	75.2	75.9	75.0	71.7	63.5	66.9	100.8	136.8	98.4
80°	60.4	60.2	63.3	65.1	60.0	46.9	42.7	55.7	60.7	43.3
82.5°	29.4	31.2	43.4	49.6	45.6	33.9	26.1	34.6	32.4	19.1
85°	17.1	16.2	19.5	27.6	26.1	18.7	12.6	18.0	16.9	9.7
87.5°	5.4	5.0	4.0	9.4	7.6	5.2	3.4	5.2	4.7	2.2
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°
873.7	0°	873.7	873.7	873.7	873.7	873.7	873.7	873.7	873.7	873.7	873.7
876.6	2.5°	863.8	842.5	821.5	802.2	790.4	782.9	775.3	766.8	763.6	758.7
879.0	5°	855.2	814.1	777.5	745.9	717.3	694.7	672.0	653.6	645.3	650.9
886.3	7.5°	850.1	790.6	734.2	676.3	620.6	576.1	537.4	510.1	497.9	500.9
893.6	10°	845.6	764.1	678.1	586.8	506.7	451.6	411.9	391.2	383.4	385.0
903.3	12.5°	841.5	734.4	610.5	490.3	405.2	368.8	357.5	357.6	359.1	360.2
918.8	15°	840.7	698.5	535.0	405.9	350.4	348.1	360.3	368.1	372.2	373.5
931.8	17.5°	839.7	655.6	458.0	348.4	337.1	353.0	364.3	369.4	372.6	372.8
944.4	20°	835.3	601.2	387.0	321.0	334.2	347.9	354.9	358.9	361.6	362.5
953.9	22.5°	822.0	540.6	331.7	308.8	322.7	333.7	342.0	346.5	348.1	349.2
955.7	25°	798.0	472.8	293.5	297.1	306.6	320.5	327.2	328.1	327.5	329.2
951.2	27.5°	766.7	400.2	269.7	281.2	293.5	305.4	309.0	308.4	307.3	309.1
943.5	30°	728.8	334.9	254.5	263.4	280.1	290.9	294.2	292.9	290.8	292.7
939.5	32.5°	688.8	281.6	242.1	250.9	269.1	279.8	283.0	281.7	280.1	281.7
944.0	35°	651.5	244.3	230.6	242.6	260.5	270.9	275.1	275.3	275.3	277.2
955.9	37.5°	617.2	222.4	221.0	237.4	254.5	263.9	269.9	270.2	262.5	263.0
976.1	40°	585.5	213.2	216.7	234.0	248.8	257.8	258.1	237.9	223.7	223.3
999.2	42.5°	559.5	211.4	217.9	233.6	244.6	245.0	219.6	203.9	199.9	200.1
1020.5	45°	535.2	210.9	220.8	233.6	238.5	211.6	194.5	190.4	190.7	192.2
1030.0	47.5°	508.0	208.7	221.4	230.4	220.8	188.2	183.1	181.3	180.6	181.0
1027.9	50°	478.2	201.0	214.5	223.9	190.5	178.1	171.8	171.2	172.2	172.7
1015.8	52.5°	446.9	188.4	202.8	212.2	176.7	169.3	162.2	163.5	167.5	168.7
1003.2	55°	426.3	173.6	187.3	188.7	166.9	161.0	155.0	157.9	165.3	167.6
995.6	57.5°	420.9	157.9	169.6	168.0	154.5	153.8	150.2	152.7	162.1	165.5
995.2	60°	419.3	143.8	152.3	151.1	142.4	145.8	144.9	146.2	149.4	150.5
991.6	62.5°	406.7	132.7	136.8	135.0	131.6	137.5	139.7	137.0	139.5	140.8
966.9	65°	374.6	123.7	121.7	120.4	121.9	127.3	131.6	126.2	128.5	132.1
871.7	67.5°	321.6	111.4	106.0	107.4	111.9	114.8	120.4	114.3	116.3	122.4
702.1	70°	260.1	95.9	91.0	95.2	99.5	105.5	106.4	102.2	106.9	113.7
428.5	72.5°	184.0	80.2	76.8	85.3	86.7	94.5	92.5	90.5	97.0	99.3
211.8	75°	127.6	64.7	62.7	69.2	74.4	81.1	79.7	82.0	95.7	96.8
105.8	77.5°	80.8	50.3	49.0	53.2	60.4	67.8	70.1	96.8	163.5	170.0
55.0	80°	46.9	37.5	36.1	39.3	45.6	52.5	67.6	118.8	107.8	106.5
24.7	82.5°	26.1	25.8	24.0	24.9	30.5	37.9	95.5	83.6	68.0	70.1
9.9	85°	12.3	15.1	13.0	12.4	17.1	44.3	63.8	47.8	31.7	31.0
2.2	87.5°	3.2	2.9	2.9	3.2	7.2	38.2	25.4	20.4	12.1	11.7
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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