

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: P945441

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
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-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2923 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

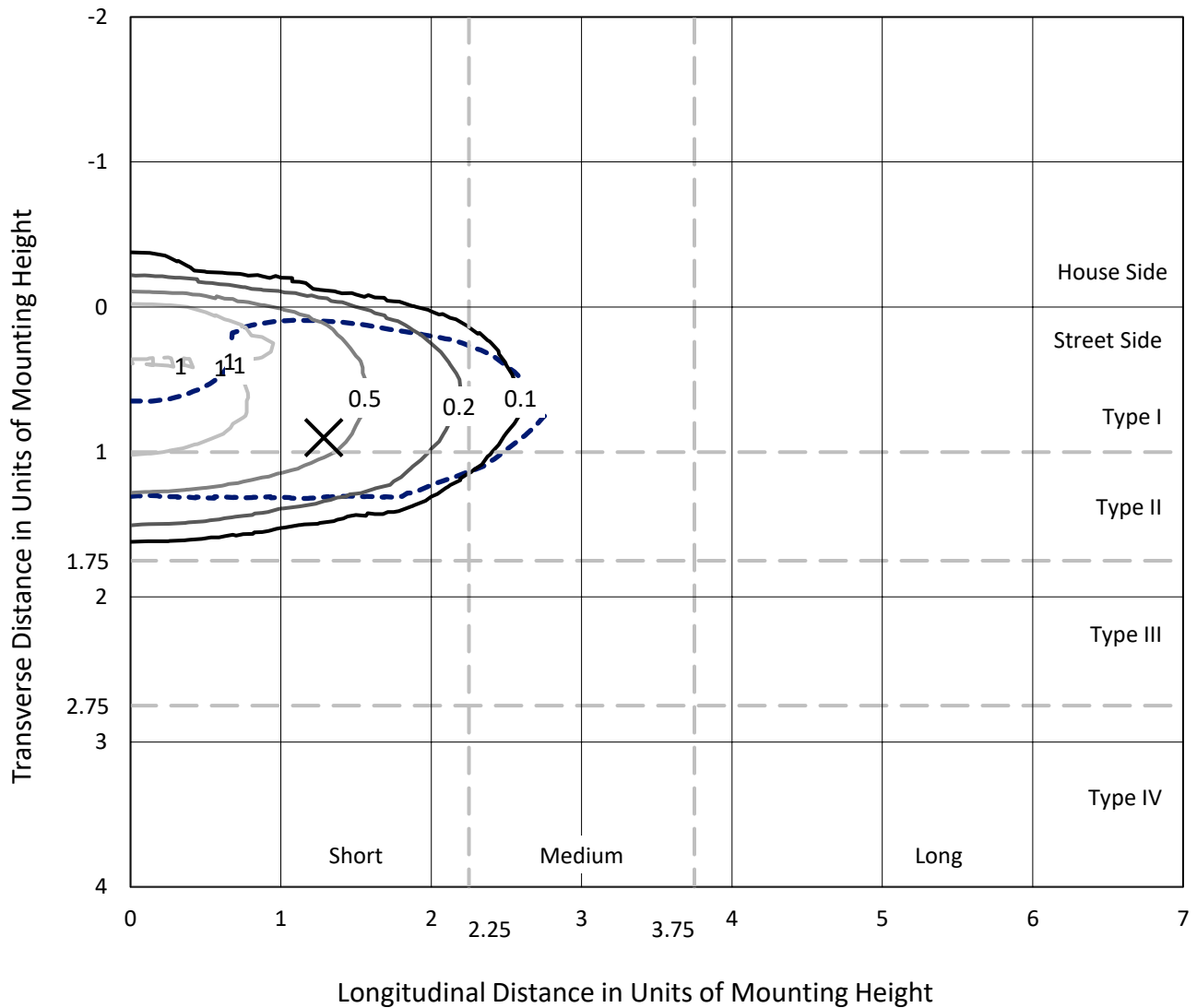
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

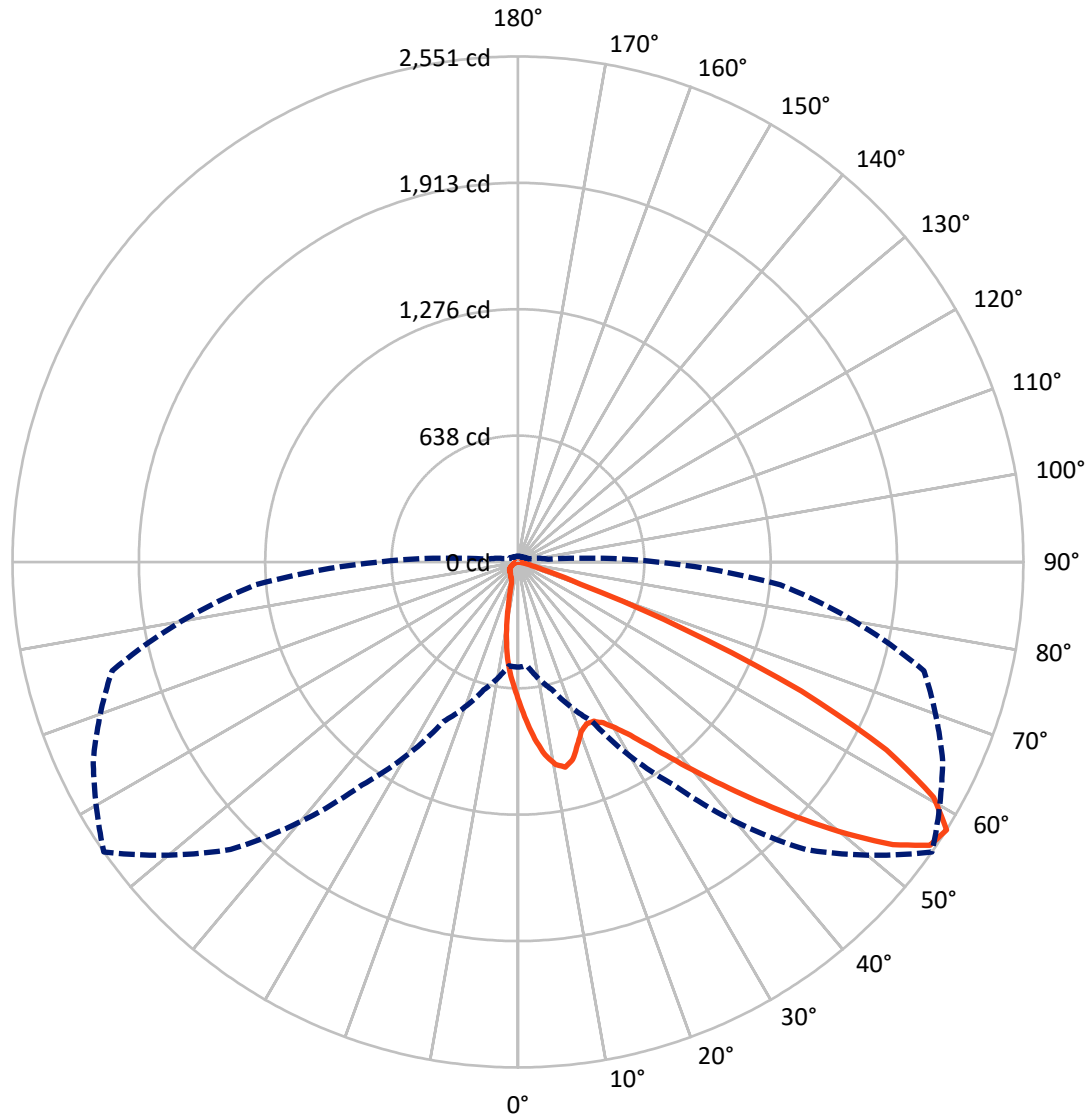
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	228.3	0.0	228.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	2694.7	0.0	2694.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	2923.0	0.0	2923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	2.2
10°-20°	158.3	5.4
20°-30°	253.3	8.7
30°-40°	428.7	14.7
40°-50°	703.8	24.1
50°-60°	773.6	26.5
60°-70°	443.7	15.2
70°-80°	90.7	3.1
80°-90°	5.3	0.2
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°	2923.0	100.0
0°-180°	2923.0	100.0

Coefficient of Utilization



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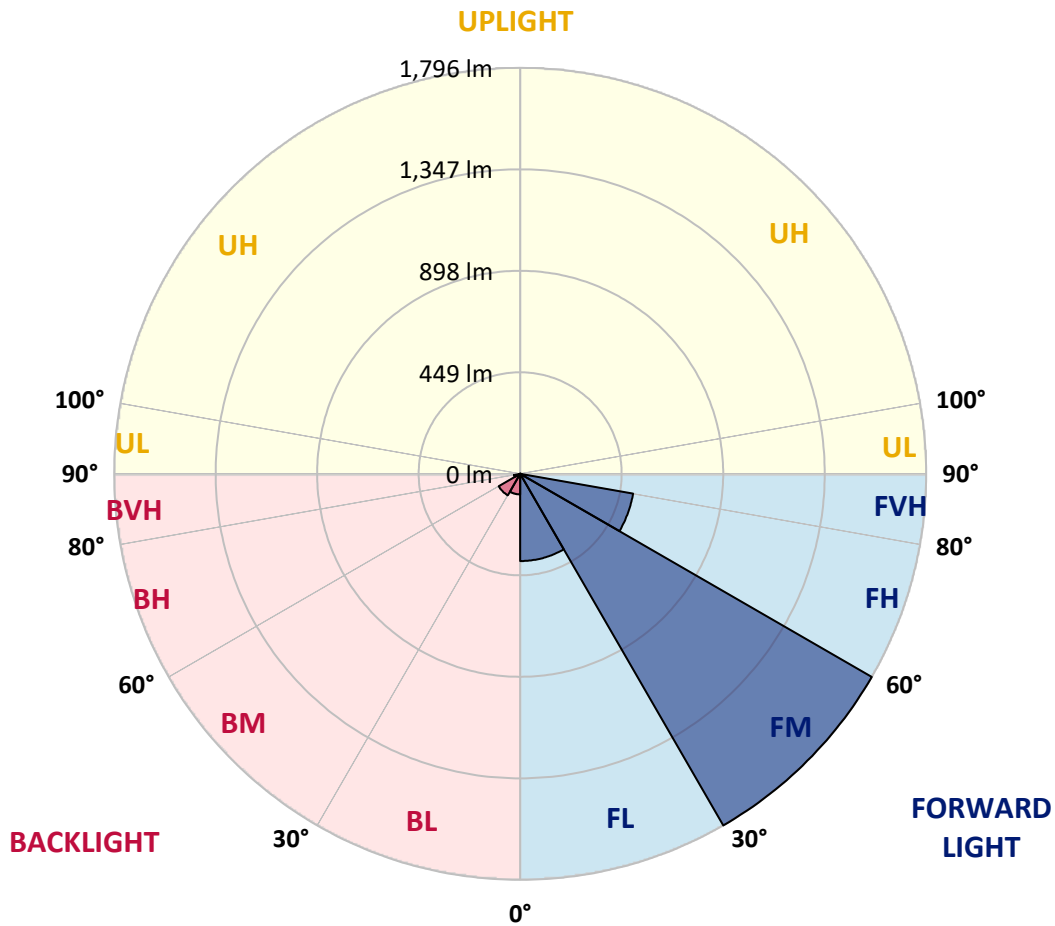
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.0	13.2			
FM (30°-60°)	1796.5	61.5			
FH (60°-80°)	507.2	17.4			G0/660
FVH (80°-90°)	5.0	0.2			G0/10
BL (0°-30°)	91.1	3.1	B0/110		
BM (30°-60°)	109.6	3.8	B0/220		
BH (60°-80°)	27.1	0.9	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4
2.5°	874.0	863.0	861.4	859.2	838.3	822.6	799.9	775.0	747.1	718.6
5°	1009.7	1001.0	999.4	989.3	965.5	938.9	898.5	847.5	795.4	734.1
7.5°	1036.0	1034.4	1041.8	1041.4	1038.2	1017.1	983.0	922.3	844.1	753.2
10°	918.7	922.8	944.8	964.1	1016.2	1046.5	1039.1	989.0	894.2	775.0
12.5°	811.8	806.9	822.6	844.4	905.0	995.1	1062.3	1044.7	951.5	799.7
15°	744.7	742.8	751.6	761.7	807.8	898.7	1035.3	1089.9	1006.6	828.9
17.5°	723.3	721.7	724.4	726.9	756.8	827.1	970.9	1117.7	1059.4	862.3
20°	740.8	738.6	738.3	736.3	748.7	796.7	912.7	1119.6	1106.8	892.5
22.5°	791.8	789.3	780.4	772.5	773.6	800.8	886.8	1099.8	1142.5	920.8
25°	884.2	880.1	861.7	835.0	818.1	829.6	890.7	1073.7	1176.6	943.0
27.5°	1000.0	994.6	970.9	931.3	892.5	878.5	919.4	1055.7	1204.9	959.9
30°	1113.3	1106.3	1083.1	1052.2	995.6	951.3	971.1	1063.6	1238.6	977.6
32.5°	1235.7	1229.0	1198.2	1160.0	1113.2	1053.5	1042.0	1102.3	1279.9	1002.3
35°	1390.5	1380.1	1336.3	1284.2	1234.5	1174.1	1137.8	1169.2	1334.8	1040.0
37.5°	1566.8	1552.8	1505.5	1433.6	1368.7	1301.1	1254.6	1261.1	1415.4	1090.4
40°	1733.0	1720.2	1676.6	1608.8	1527.3	1445.3	1395.8	1381.3	1526.6	1151.9
42.5°	1832.7	1821.1	1802.7	1774.1	1705.4	1621.8	1559.2	1528.1	1658.2	1225.4
45°	1838.2	1828.2	1852.8	1886.2	1872.7	1817.0	1740.7	1683.6	1790.3	1294.5
47.5°	1748.9	1742.0	1817.0	1933.4	1991.5	2014.9	1944.6	1826.2	1899.4	1344.0
50°	1505.2	1502.6	1656.9	1870.7	2036.7	2188.3	2159.6	1958.8	1983.9	1369.6
52.5°	1305.1	1295.9	1385.9	1669.9	1970.9	2279.5	2369.8	2089.0	2043.0	1374.5
55°	989.9	981.8	1094.6	1333.9	1758.8	2247.0	2523.5	2223.2	2085.4	1362.1
57.5°	531.0	525.9	668.5	887.9	1374.9	2052.4	2551.3	2365.3	2121.0	1329.1
60°	206.7	205.8	259.2	430.8	835.6	1669.7	2411.2	2450.5	2143.4	1288.5
62.5°	125.1	127.8	136.4	193.4	369.1	1037.3	2088.4	2353.6	2158.4	1251.4
65°	103.5	103.6	104.7	132.8	176.8	434.0	1572.2	2034.5	2121.4	1185.2
67.5°	88.7	90.3	94.4	105.4	124.7	190.3	905.2	1576.0	1896.6	1031.3
70°	69.9	72.1	77.3	86.7	96.2	119.1	334.5	1048.6	1448.9	777.4
72.5°	58.9	58.8	61.5	70.5	76.4	83.8	128.7	587.6	842.1	371.1
75°	45.6	47.4	50.8	58.9	62.5	60.7	69.8	214.7	301.7	112.5
77.5°	35.7	37.1	40.2	48.1	51.7	43.1	40.2	76.8	97.0	40.4
80°	16.0	17.3	27.4	35.5	42.2	29.7	21.8	39.3	43.1	18.4
82.5°	2.9	4.9	16.0	18.7	21.6	19.3	11.4	20.4	21.1	7.4
85°	0.2	0.4	5.6	6.8	8.7	6.3	3.4	8.1	7.0	2.5
87.5°	0.0	0.0	0.0	0.2	0.2	0.9	1.1	1.4	1.1	0.9
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°
704.4	0°	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4
706.0	2.5°	693.0	667.4	642.5	622.2	610.3	590.1	576.8	574.6	569.0	573.9
707.8	5°	679.7	633.9	587.6	546.1	512.1	468.1	435.3	421.4	409.3	413.5
712.5	7.5°	673.4	601.1	529.0	458.2	385.3	315.1	262.8	241.0	224.4	226.7
717.7	10°	664.9	567.0	454.0	345.9	248.4	179.0	142.9	129.6	122.2	122.4
725.5	12.5°	658.4	526.3	367.0	234.5	151.2	114.3	103.1	99.9	97.7	97.9
737.2	15°	655.2	478.4	281.0	156.3	108.1	96.8	94.1	92.6	91.2	91.0
750.2	17.5°	649.8	425.0	205.7	114.1	94.6	90.7	88.3	86.7	84.9	84.5
761.3	20°	641.6	364.4	150.3	96.4	88.7	85.6	82.4	80.2	78.0	77.7
768.4	22.5°	626.7	300.5	115.5	89.2	84.4	80.9	77.0	74.4	72.3	71.9
764.9	25°	598.9	240.4	97.3	84.7	80.6	76.4	72.1	68.7	66.7	66.3
757.5	27.5°	563.8	188.9	88.3	80.6	75.7	71.9	67.0	63.8	62.0	61.6
747.8	30°	522.3	145.5	83.1	75.9	69.9	66.7	62.4	59.7	58.6	58.6
741.0	32.5°	477.6	116.3	80.9	71.2	64.9	61.3	57.9	56.8	56.4	56.2
744.7	35°	435.6	100.9	79.8	67.4	60.4	57.0	55.5	55.7	56.4	56.4
756.5	37.5°	398.3	96.1	79.3	64.7	56.4	53.4	54.3	55.9	55.2	55.2
777.0	40°	364.6	96.6	78.9	62.7	53.2	51.4	53.2	51.9	50.1	49.9
802.1	42.5°	338.8	101.1	78.2	61.1	51.2	49.9	49.2	47.2	47.0	47.4
828.0	45°	320.1	105.1	78.0	60.4	49.0	46.7	45.8	43.8	47.4	48.3
838.6	47.5°	297.9	105.1	78.0	57.9	45.4	44.5	43.1	40.9	44.5	45.4
828.6	50°	269.3	98.4	75.0	55.0	42.5	42.0	39.5	36.8	36.0	36.6
804.9	52.5°	233.0	86.3	67.2	51.0	39.7	38.6	35.5	33.5	33.0	33.0
762.6	55°	191.8	72.3	56.8	45.2	36.6	34.6	32.4	31.5	31.0	30.6
703.3	57.5°	155.9	59.3	45.6	40.2	33.7	31.2	30.5	29.4	28.5	27.9
653.7	60°	128.0	46.7	37.7	35.7	30.8	28.5	28.3	26.9	24.5	24.2
612.8	62.5°	98.8	34.2	31.7	31.0	27.9	26.0	25.6	22.7	19.1	18.4
554.8	65°	69.8	26.7	25.6	27.2	24.9	23.1	22.2	17.8	14.1	13.5
464.3	67.5°	49.0	22.3	20.2	23.8	21.6	19.3	18.7	15.1	11.7	11.4
351.1	70°	35.0	18.2	16.6	20.4	17.3	16.9	15.9	12.6	9.6	9.2
173.7	72.5°	24.7	13.9	12.8	17.7	11.9	14.6	13.0	9.7	7.2	6.8
59.1	75°	18.2	9.9	9.0	10.3	8.7	11.0	9.2	6.5	4.5	4.3
26.7	77.5°	13.3	6.3	5.4	5.0	5.0	6.8	5.0	2.7	2.0	1.8
13.5	80°	9.4	2.9	2.5	2.2	2.0	1.6	0.7	0.4	0.2	0.2
4.7	82.5°	5.6	1.3	1.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0
1.8	85°	1.3	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
0.7	87.5°	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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