

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: P945504

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945504
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-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 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: 3480 lumens
Efficiency: N/A
Efficacy: 87.4 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

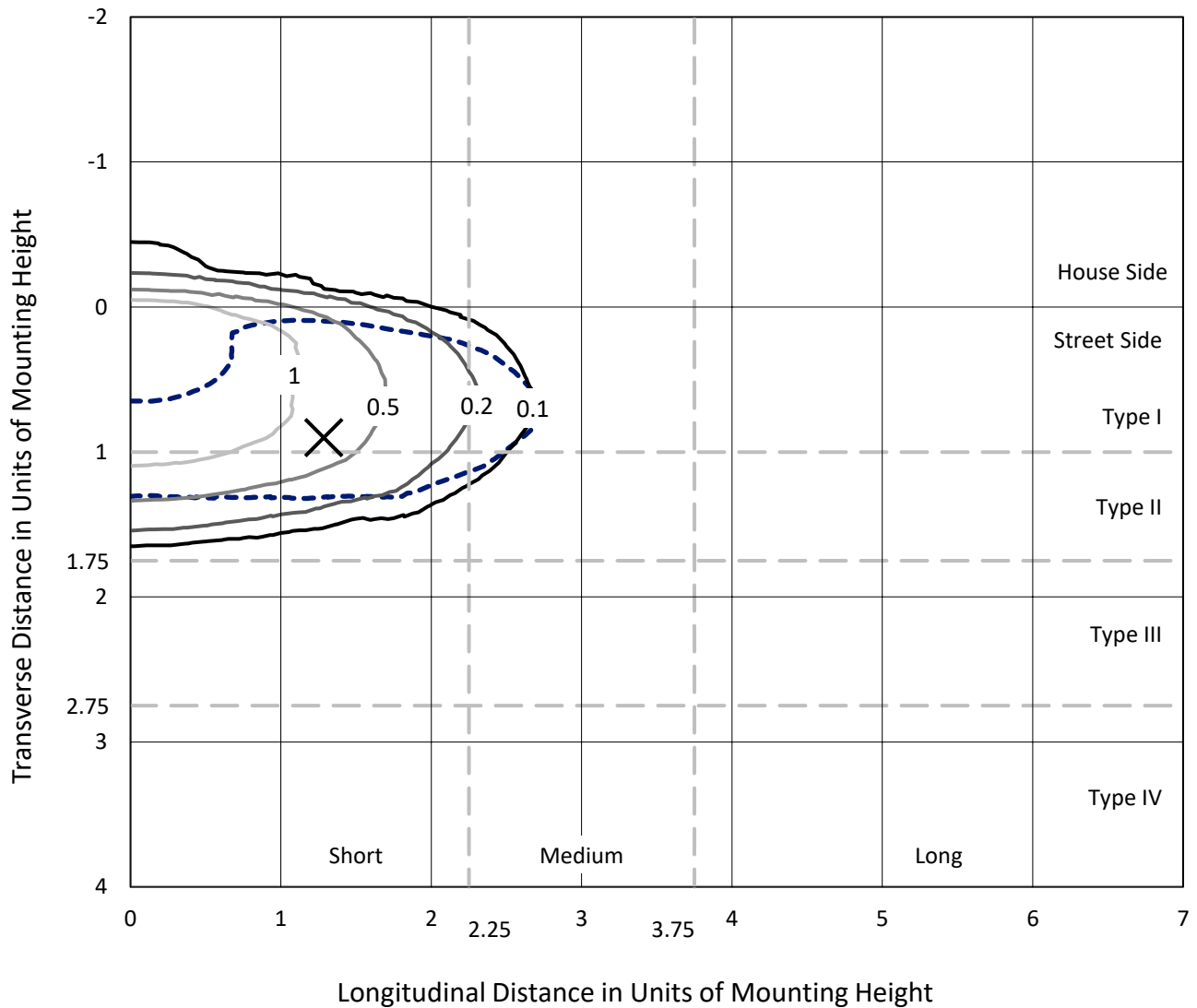
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

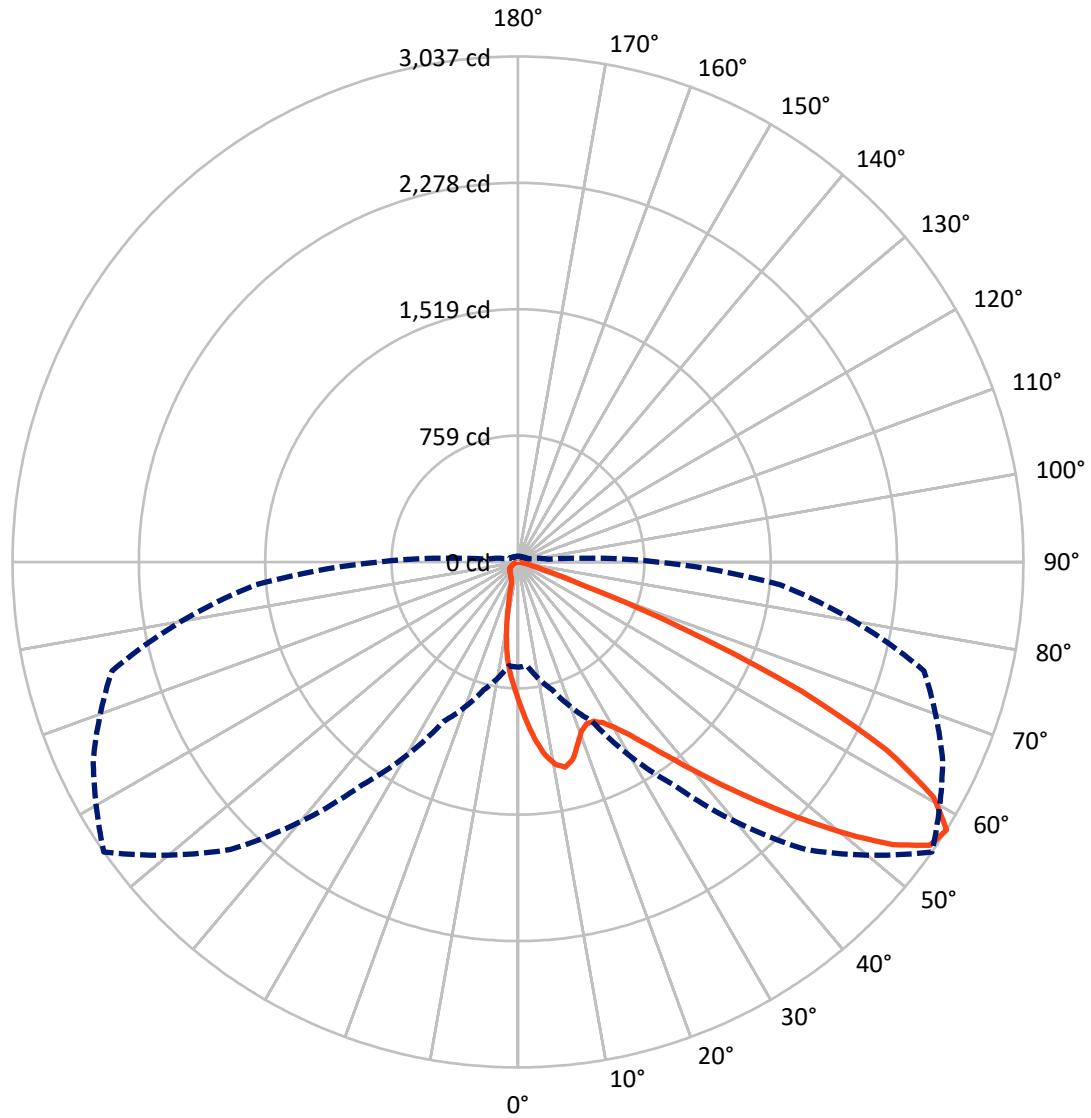
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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
House Side	Lumens	271.8	0.0	271.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	3208.2	0.0	3208.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	3480.0	0.0	3480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	2.2
10°-20°	188.5	5.4
20°-30°	301.6	8.7
30°-40°	510.4	14.7
40°-50°	838.0	24.1
50°-60°	921.0	26.5
60°-70°	528.3	15.2
70°-80°	107.9	3.1
80°-90°	6.4	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°	3480.0	100.0
0°-180°	3480.0	100.0

Coefficient of Utilization



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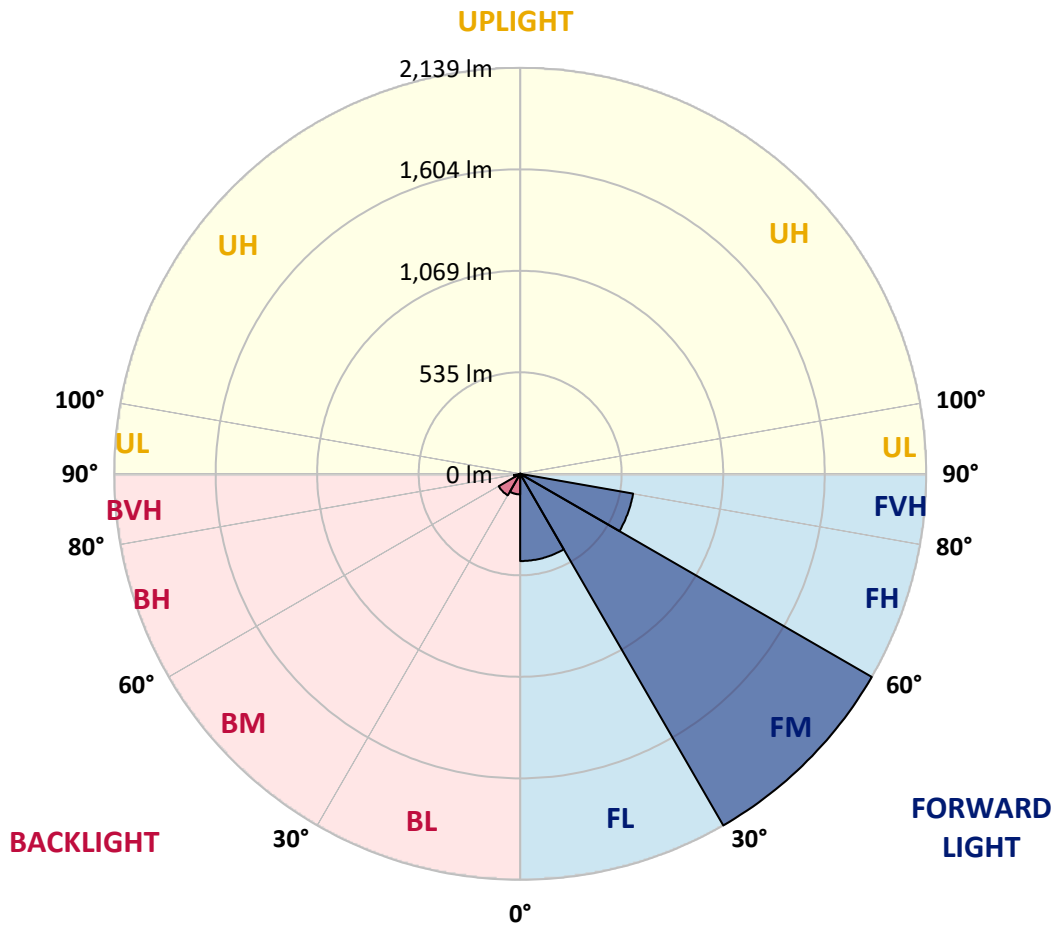
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.6	13.2			
FM (30°-60°)	2138.8	61.5			
FH (60°-80°)	603.9	17.4			G0/660
FVH (80°-90°)	5.9	0.2			G0/10
BL (0°-30°)	108.5	3.1	B0/110		
BM (30°-60°)	130.5	3.8	B0/220		
BH (60°-80°)	32.3	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°	838.6	838.6	838.6	838.6	838.6	838.6	838.6	838.6	838.6	838.6
2.5°	1040.5	1027.4	1025.5	1022.9	998.0	979.4	952.3	922.7	889.5	855.5
5°	1202.1	1191.8	1189.9	1177.9	1149.5	1117.8	1069.7	1009.0	947.0	874.0
7.5°	1233.4	1231.5	1240.3	1239.9	1236.0	1210.9	1170.3	1098.0	1004.9	896.7
10°	1093.7	1098.7	1124.8	1147.8	1209.8	1245.9	1237.1	1177.4	1064.6	922.7
12.5°	966.5	960.7	979.4	1005.3	1077.4	1184.7	1264.8	1243.7	1132.8	952.1
15°	886.7	884.3	894.8	906.8	961.8	1069.9	1232.6	1297.6	1198.5	986.9
17.5°	861.1	859.2	862.4	865.4	901.0	984.7	1156.0	1330.6	1261.3	1026.6
20°	881.9	879.4	878.9	876.6	891.4	948.5	1086.7	1333.0	1317.8	1062.6
22.5°	942.7	939.7	929.1	919.7	921.0	953.4	1055.8	1309.4	1360.2	1096.3
25°	1052.7	1047.8	1025.9	994.2	974.0	987.7	1060.5	1278.3	1400.8	1122.7
27.5°	1190.5	1184.1	1156.0	1108.8	1062.6	1045.9	1094.6	1256.8	1434.5	1142.9
30°	1325.5	1317.1	1289.4	1252.7	1185.4	1132.6	1156.2	1266.3	1474.6	1163.9
32.5°	1471.2	1463.2	1426.6	1381.1	1325.3	1254.2	1240.5	1312.4	1523.8	1193.3
35°	1655.5	1643.1	1590.9	1528.9	1469.7	1397.8	1354.7	1392.0	1589.2	1238.1
37.5°	1865.4	1848.6	1792.4	1706.8	1629.6	1549.1	1493.7	1501.4	1685.1	1298.2
40°	2063.2	2048.0	1996.1	1915.4	1818.4	1720.7	1661.7	1644.6	1817.5	1371.4
42.5°	2181.9	2168.2	2146.3	2112.2	2030.4	1930.8	1856.4	1819.2	1974.2	1459.0
45°	2188.5	2176.5	2205.9	2245.6	2229.5	2163.2	2072.5	2004.4	2131.5	1541.1
47.5°	2082.1	2074.0	2163.2	2301.8	2370.9	2398.8	2315.1	2174.2	2261.3	1600.2
50°	1792.0	1789.0	1972.7	2227.2	2424.8	2605.3	2571.1	2332.1	2361.9	1630.6
52.5°	1553.8	1542.9	1649.9	1988.1	2346.5	2713.8	2821.4	2487.0	2432.3	1636.4
55°	1178.5	1168.8	1303.2	1588.1	2093.9	2675.2	3004.4	2646.9	2482.7	1621.6
57.5°	632.2	626.2	795.9	1057.0	1636.8	2443.5	3037.4	2816.0	2525.2	1582.3
60°	246.1	245.1	308.6	512.9	994.8	1987.9	2870.7	2917.5	2551.8	1534.1
62.5°	148.9	152.1	162.4	230.2	439.5	1234.9	2486.4	2802.0	2569.6	1489.9
65°	123.2	123.4	124.7	158.1	210.5	516.7	1871.8	2422.2	2525.7	1411.1
67.5°	105.6	107.5	112.4	125.5	148.5	226.6	1077.6	1876.3	2258.1	1227.8
70°	83.3	85.8	92.1	103.2	114.6	141.8	398.3	1248.4	1725.0	925.5
72.5°	70.2	70.0	73.2	83.9	91.0	99.8	153.2	699.5	1002.5	441.8
75°	54.3	56.4	60.5	70.2	74.5	72.3	83.0	255.6	359.2	133.9
77.5°	42.5	44.2	47.9	57.3	61.6	51.3	47.9	91.4	115.4	48.1
80°	19.1	20.6	32.6	42.3	50.2	35.4	26.0	46.8	51.3	21.9
82.5°	3.4	5.8	19.1	22.3	25.8	23.0	13.5	24.2	25.1	8.8
85°	0.2	0.4	6.7	8.2	10.3	7.5	4.1	9.7	8.4	3.0
87.5°	0.0	0.0	0.0	0.2	0.2	1.1	1.3	1.7	1.3	1.1
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°
838.6	0°	838.6	838.6	838.6	838.6	838.6	838.6	838.6	838.6	838.6	838.6
840.5	2.5°	825.1	794.6	765.0	740.7	726.6	702.5	686.7	684.1	677.4	683.2
842.7	5°	809.2	754.7	699.5	650.2	609.6	557.3	518.2	501.7	487.3	492.3
848.3	7.5°	801.7	715.6	629.8	545.5	458.8	375.1	312.9	286.9	267.2	269.9
854.5	10°	791.6	675.1	540.5	411.8	295.7	213.1	170.2	154.3	145.5	145.7
863.7	12.5°	783.9	626.6	436.9	279.2	180.0	136.0	122.7	118.9	116.3	116.5
877.6	15°	780.0	569.5	334.5	186.0	128.8	115.2	112.0	110.3	108.6	108.4
893.1	17.5°	773.6	506.0	244.8	135.8	112.7	107.9	105.1	103.2	101.1	100.6
906.4	20°	763.9	433.9	179.0	114.8	105.6	101.9	98.1	95.5	92.9	92.5
914.8	22.5°	746.1	357.7	137.5	106.2	100.4	96.3	91.6	88.6	86.0	85.6
910.7	25°	713.1	286.3	115.9	100.9	95.9	91.0	85.8	81.8	79.4	79.0
901.9	27.5°	671.2	224.9	105.1	95.9	90.1	85.6	79.8	76.0	73.8	73.4
890.3	30°	621.9	173.2	98.9	90.3	83.3	79.4	74.2	71.0	69.7	69.7
882.2	32.5°	568.6	138.4	96.3	84.8	77.3	73.0	68.9	67.6	67.2	67.0
886.7	35°	518.6	120.2	95.1	80.3	71.9	67.8	66.1	66.3	67.2	67.2
900.6	37.5°	474.2	114.4	94.4	77.0	67.2	63.5	64.6	66.5	65.7	65.7
925.1	40°	434.1	115.0	94.0	74.7	63.3	61.2	63.3	61.8	59.7	59.4
954.9	42.5°	403.4	120.4	93.1	72.7	60.9	59.4	58.6	56.2	56.0	56.4
985.8	45°	381.1	125.1	92.9	71.9	58.4	55.6	54.5	52.1	56.4	57.5
998.5	47.5°	354.7	125.1	92.9	68.9	54.1	53.0	51.3	48.7	53.0	54.1
986.4	50°	320.6	117.2	89.3	65.4	50.6	50.0	47.0	43.8	42.9	43.6
958.3	52.5°	277.5	102.8	80.0	60.7	47.2	45.9	42.3	39.9	39.3	39.3
907.9	55°	228.3	86.0	67.6	53.9	43.6	41.2	38.6	37.6	36.9	36.5
837.3	57.5°	185.6	70.6	54.3	47.9	40.1	37.1	36.3	35.0	33.9	33.3
778.3	60°	152.4	55.6	44.8	42.5	36.7	33.9	33.7	32.0	29.2	28.8
729.6	62.5°	117.6	40.8	37.8	36.9	33.3	30.9	30.5	27.0	22.7	21.9
660.5	65°	83.0	31.8	30.5	32.4	29.6	27.5	26.4	21.2	16.7	16.1
552.8	67.5°	58.4	26.6	24.0	28.3	25.8	23.0	22.3	18.0	13.9	13.5
418.0	70°	41.6	21.7	19.7	24.2	20.6	20.2	18.9	15.0	11.4	10.9
206.9	72.5°	29.4	16.5	15.2	21.0	14.2	17.4	15.5	11.6	8.6	8.2
70.4	75°	21.7	11.8	10.7	12.2	10.3	13.1	10.9	7.7	5.4	5.2
31.8	77.5°	15.9	7.5	6.4	6.0	6.0	8.2	6.0	3.2	2.4	2.1
16.1	80°	11.2	3.4	3.0	2.6	2.4	1.9	0.9	0.4	0.2	0.2
5.6	82.5°	6.7	1.5	1.5	1.1	0.6	0.0	0.0	0.0	0.0	0.0
2.1	85°	1.5	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0
0.9	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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