

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: P945000

Luminaire Tested: **GALN-SB1A-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945000
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-SB1A-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3438 lumens
Efficiency: N/A
Efficacy: 111.3 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

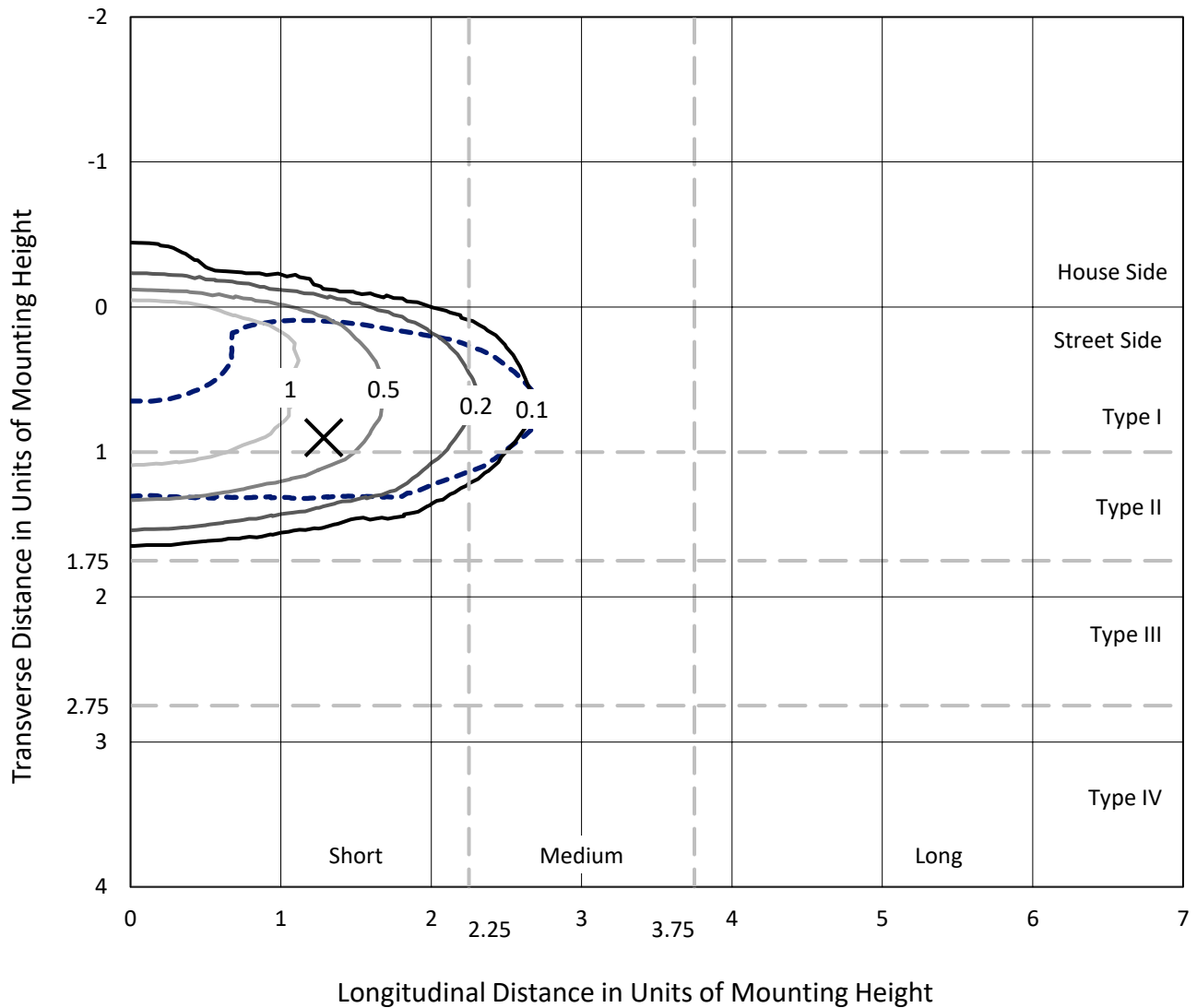
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

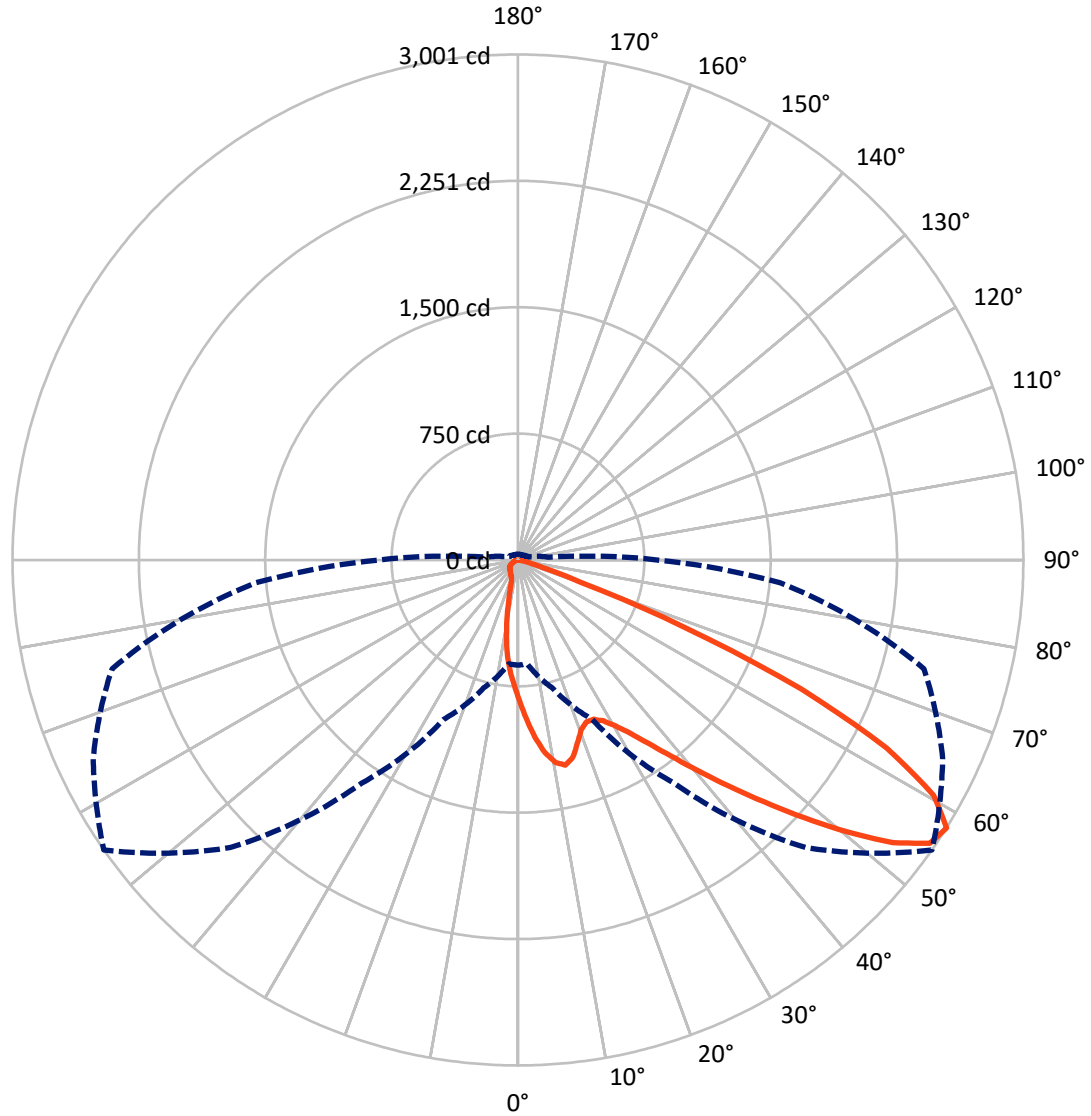
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	268.5	0.0	268.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	3169.5	0.0	3169.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	3438.0	0.0	3438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	2.2
10°-20°	186.2	5.4
20°-30°	297.9	8.7
30°-40°	504.2	14.7
40°-50°	827.9	24.1
50°-60°	909.9	26.5
60°-70°	521.9	15.2
70°-80°	106.6	3.1
80°-90°	6.3	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°	3438.0	100.0
0°-180°	3438.0	100.0

Coefficient of Utilization



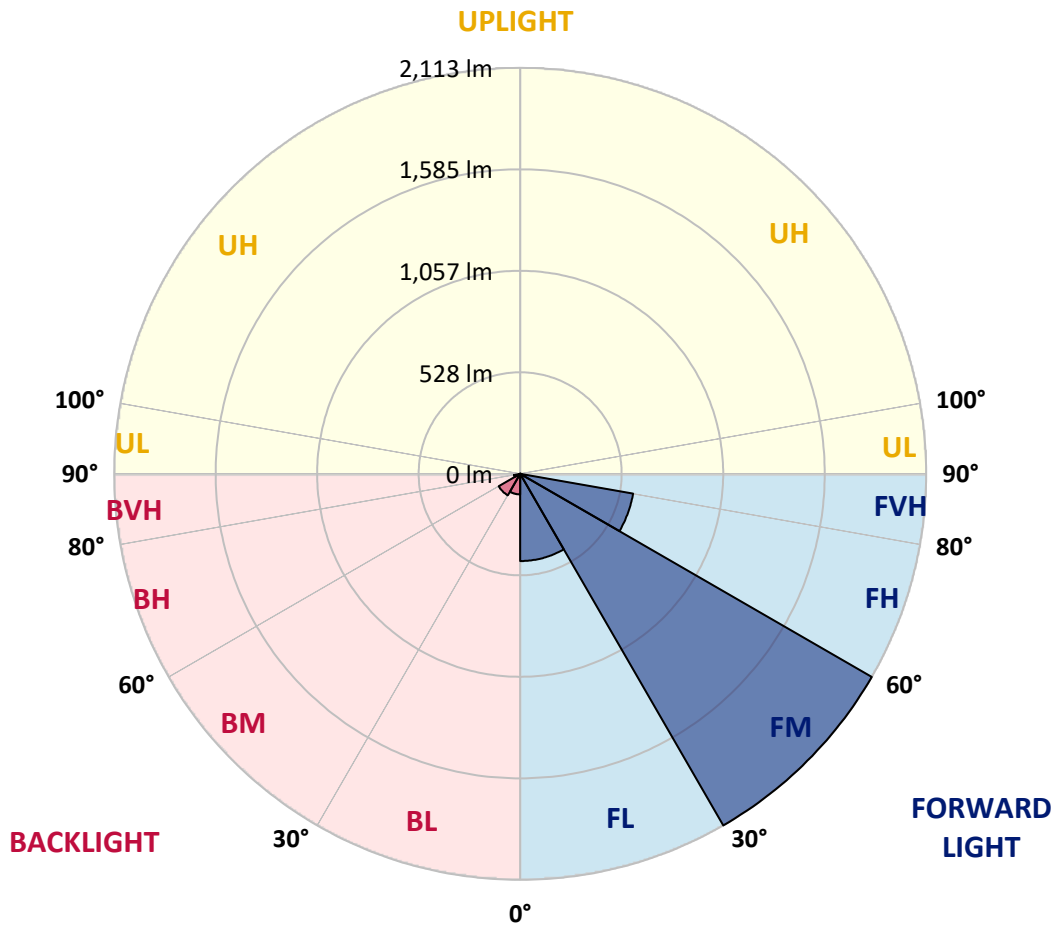
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	454.0	13.2			
FM (30°-60°)	2113.0	61.5			
FH (60°-80°)	596.6	17.4			G0/660
FVH (80°-90°)	5.9	0.2			G0/10
BL (0°-30°)	107.2	3.1	B0/110		
BM (30°-60°)	128.9	3.8	B0/220		
BH (60°-80°)	31.9	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°	828.5	828.5	828.5	828.5	828.5	828.5	828.5	828.5	828.5	828.5
2.5°	1028.0	1015.0	1013.1	1010.6	986.0	967.5	940.8	911.6	878.7	845.2
5°	1187.6	1177.4	1175.5	1163.6	1135.7	1104.3	1056.8	996.8	935.5	863.5
7.5°	1218.5	1216.6	1225.3	1224.9	1221.1	1196.3	1156.2	1084.8	992.8	885.9
10°	1080.5	1085.4	1111.3	1134.0	1195.2	1230.8	1222.1	1163.2	1051.7	911.6
12.5°	954.8	949.1	967.5	993.2	1064.4	1170.4	1249.5	1228.7	1119.1	940.6
15°	876.0	873.6	884.0	895.9	950.2	1057.0	1217.7	1281.9	1184.0	975.0
17.5°	850.7	848.8	852.0	855.0	890.2	972.8	1142.0	1314.6	1246.1	1014.2
20°	871.3	868.8	868.3	866.0	880.6	937.0	1073.5	1316.9	1301.9	1049.8
22.5°	931.3	928.3	917.9	908.6	909.9	941.9	1043.0	1293.6	1343.8	1083.1
25°	1040.0	1035.2	1013.5	982.2	962.2	975.8	1047.7	1262.8	1383.9	1109.2
27.5°	1176.1	1169.8	1142.0	1095.4	1049.8	1033.3	1081.4	1241.6	1417.2	1129.1
30°	1309.5	1301.2	1273.9	1237.6	1171.1	1118.9	1142.2	1251.0	1456.8	1149.9
32.5°	1453.4	1445.6	1409.3	1364.4	1309.3	1239.1	1225.5	1296.6	1505.4	1178.9
35°	1635.5	1623.2	1571.7	1510.5	1451.9	1380.9	1338.3	1375.2	1570.0	1223.2
37.5°	1842.9	1826.3	1770.8	1686.2	1609.9	1530.4	1475.7	1483.3	1664.8	1282.6
40°	2038.3	2023.3	1972.0	1892.3	1796.4	1700.0	1641.7	1624.7	1795.6	1354.9
42.5°	2155.6	2142.0	2120.4	2086.7	2005.9	1907.5	1834.0	1797.3	1950.3	1441.3
45°	2162.1	2150.3	2179.3	2218.5	2202.6	2137.1	2047.4	1980.2	2105.7	1522.5
47.5°	2057.0	2048.9	2137.1	2274.1	2342.3	2369.9	2287.2	2147.9	2234.0	1580.8
50°	1770.4	1767.4	1948.9	2200.3	2395.5	2573.8	2540.1	2304.0	2333.4	1610.9
52.5°	1535.0	1524.2	1630.0	1964.1	2318.2	2681.1	2787.3	2457.0	2403.0	1616.7
55°	1164.3	1154.7	1287.4	1569.0	2068.6	2642.9	2968.1	2614.9	2452.8	1602.0
57.5°	624.5	618.6	786.3	1044.3	1617.1	2414.0	3000.8	2782.0	2494.7	1563.2
60°	243.2	242.1	304.8	506.7	982.8	1963.9	2836.1	2882.3	2521.0	1515.5
62.5°	147.1	150.3	160.5	227.5	434.2	1220.0	2456.4	2768.2	2538.6	1471.9
65°	121.7	121.9	123.2	156.2	208.0	510.5	1849.2	2393.0	2495.2	1394.1
67.5°	104.3	106.2	111.1	124.0	146.7	223.9	1064.6	1853.7	2230.8	1213.0
70°	82.3	84.8	90.9	102.0	113.2	140.1	393.5	1233.4	1704.2	914.3
72.5°	69.3	69.1	72.3	82.9	89.9	98.6	151.4	691.1	990.4	436.5
75°	53.6	55.8	59.8	69.3	73.6	71.4	82.0	252.5	354.9	132.3
77.5°	42.0	43.7	47.3	56.6	60.8	50.7	47.3	90.3	114.1	47.5
80°	18.9	20.4	32.2	41.8	49.6	35.0	25.7	46.2	50.7	21.6
82.5°	3.4	5.7	18.9	22.0	25.4	22.7	13.4	24.0	24.8	8.7
85°	0.2	0.4	6.6	8.1	10.2	7.4	4.0	9.5	8.3	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°
828.5	0°	828.5	828.5	828.5	828.5	828.5	828.5	828.5	828.5	828.5	828.5
830.4	2.5°	815.1	785.0	755.8	731.8	717.8	694.1	678.4	675.8	669.3	675.0
832.5	5°	799.4	745.6	691.1	642.3	602.3	550.5	512.0	495.6	481.4	486.3
838.0	7.5°	792.0	707.0	622.2	538.9	453.2	370.6	309.1	283.4	263.9	266.7
844.2	10°	782.0	666.9	534.0	406.8	292.1	210.5	168.1	152.4	143.7	143.9
853.3	12.5°	774.4	619.0	431.6	275.8	177.9	134.4	121.3	117.4	114.9	115.1
867.1	15°	770.6	562.6	330.5	183.8	127.2	113.8	110.7	109.0	107.3	107.1
882.3	17.5°	764.2	499.9	241.9	134.2	111.3	106.6	103.9	102.0	99.8	99.4
895.5	20°	754.7	428.7	176.8	113.4	104.3	100.7	96.9	94.3	91.8	91.4
903.7	22.5°	737.1	353.4	135.9	104.9	99.2	95.2	90.5	87.6	85.0	84.6
899.7	25°	704.5	282.8	114.5	99.6	94.8	89.9	84.8	80.8	78.4	78.0
891.0	27.5°	663.1	222.2	103.9	94.8	89.0	84.6	78.9	75.0	72.9	72.5
879.6	30°	614.4	171.1	97.7	89.2	82.3	78.4	73.3	70.2	68.9	68.9
871.5	32.5°	561.8	136.7	95.2	83.7	76.3	72.1	68.1	66.8	66.4	66.1
876.0	35°	512.4	118.7	93.9	79.3	71.0	67.0	65.3	65.5	66.4	66.4
889.7	37.5°	468.5	113.0	93.3	76.1	66.4	62.8	63.8	65.7	64.9	64.9
913.9	40°	428.9	113.6	92.9	73.8	62.5	60.4	62.5	61.1	58.9	58.7
943.4	42.5°	398.5	118.9	92.0	71.9	60.2	58.7	57.9	55.5	55.3	55.8
973.9	45°	376.5	123.6	91.8	71.0	57.7	54.9	53.8	51.5	55.8	56.8
986.4	47.5°	350.4	123.6	91.8	68.1	53.4	52.4	50.7	48.1	52.4	53.4
974.5	50°	316.7	115.7	88.2	64.7	50.0	49.4	46.4	43.2	42.4	43.0
946.8	52.5°	274.1	101.5	79.1	60.0	46.6	45.4	41.8	39.4	38.8	38.8
896.9	55°	225.6	85.0	66.8	53.2	43.0	40.7	38.2	37.1	36.5	36.0
827.2	57.5°	183.4	69.7	53.6	47.3	39.6	36.7	35.8	34.6	33.5	32.9
768.9	60°	150.5	54.9	44.3	42.0	36.3	33.5	33.3	31.6	28.8	28.4
720.8	62.5°	116.2	40.3	37.3	36.5	32.9	30.5	30.1	26.7	22.5	21.6
652.5	65°	82.0	31.4	30.1	32.0	29.3	27.1	26.1	21.0	16.5	15.9
546.1	67.5°	57.7	26.3	23.7	28.0	25.4	22.7	22.0	17.8	13.8	13.4
413.0	70°	41.1	21.4	19.5	24.0	20.4	19.9	18.7	14.8	11.2	10.8
204.4	72.5°	29.0	16.3	15.1	20.8	14.0	17.2	15.3	11.4	8.5	8.1
69.5	75°	21.4	11.7	10.6	12.1	10.2	12.9	10.8	7.6	5.3	5.1
31.4	77.5°	15.7	7.4	6.4	5.9	5.9	8.1	5.9	3.2	2.3	2.1
15.9	80°	11.0	3.4	3.0	2.5	2.3	1.9	0.8	0.4	0.2	0.2
5.5	82.5°	6.6	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
0.8	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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