

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: P946512

Luminaire Tested: **GALN-SB2A-927-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946512
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-SB2A-927-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4656 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

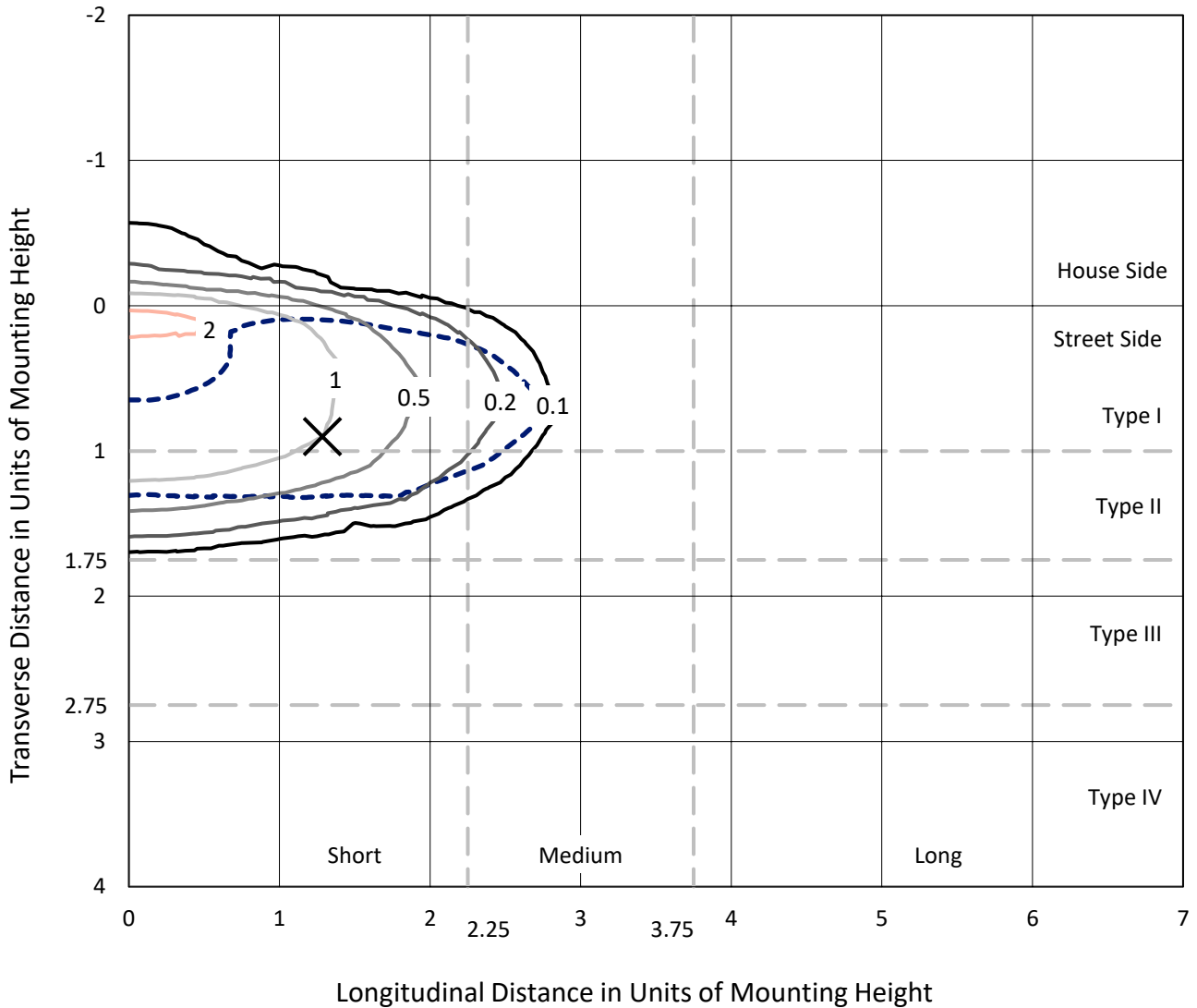
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

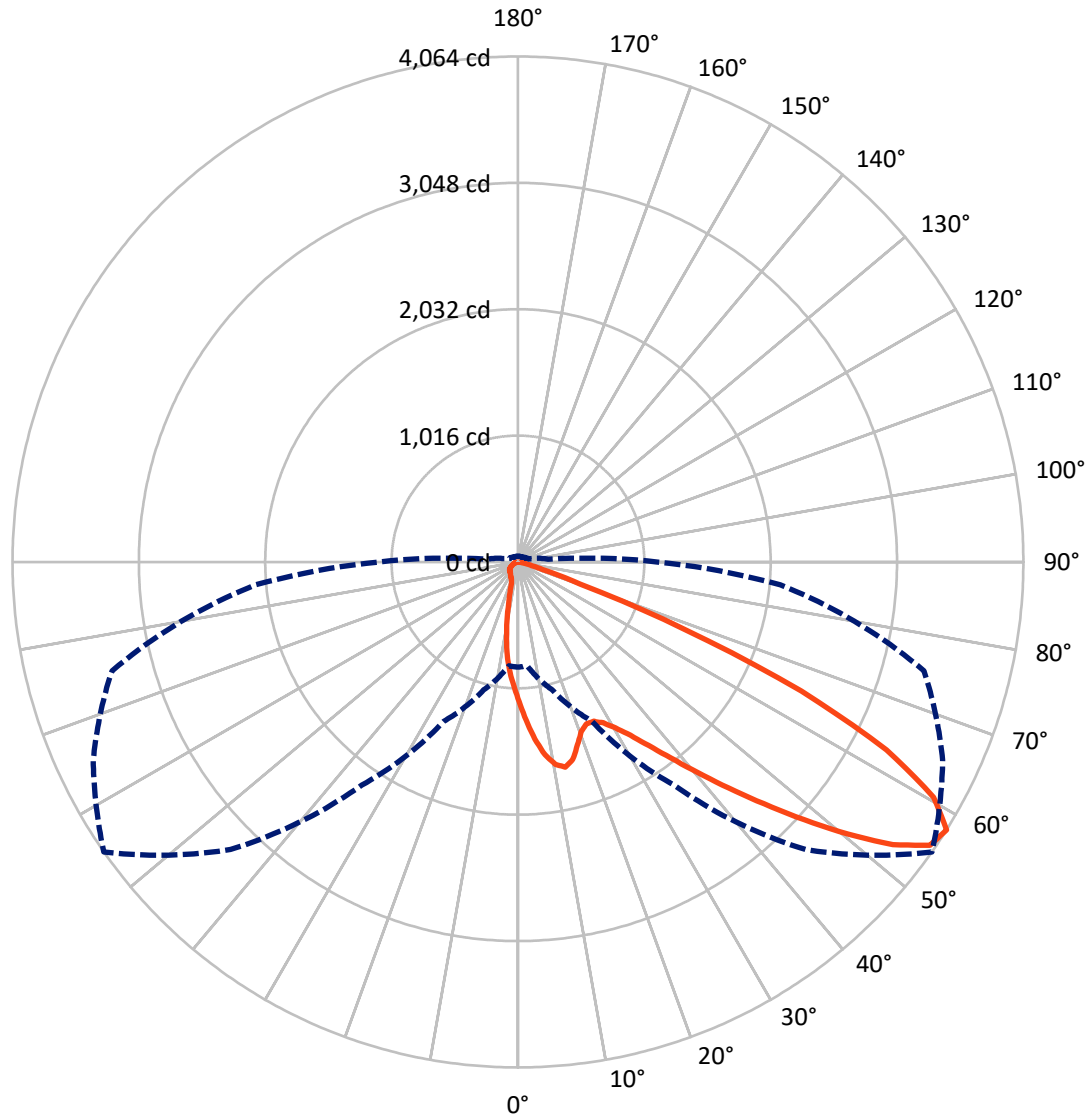
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	363.6	0.0	363.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	4292.4	0.0	4292.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	4656.0	0.0	4656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	2.2
10°-20°	252.2	5.4
20°-30°	403.5	8.7
30°-40°	682.9	14.7
40°-50°	1121.1	24.1
50°-60°	1232.2	26.5
60°-70°	706.8	15.2
70°-80°	144.4	3.1
80°-90°	8.5	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°	4656.0	100.0
0°-180°	4656.0	100.0

Coefficient of Utilization



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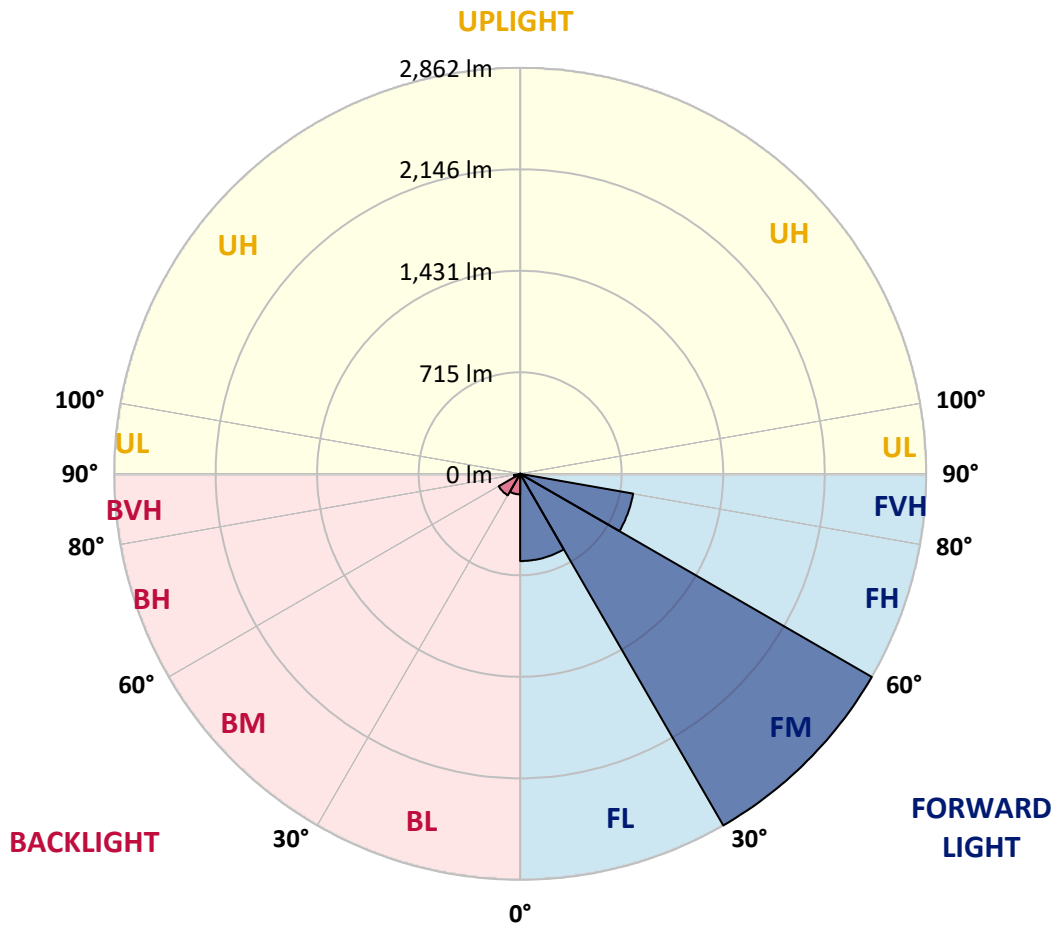
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.9	13.2			
FM (30°-60°)	2861.6	61.5			
FH (60°-80°)	808.0	17.4			G1/1800
FVH (80°-90°)	7.9	0.2			G0/10
BL (0°-30°)	145.2	3.1	B1/500		
BM (30°-60°)	174.6	3.8	B0/220		
BH (60°-80°)	43.2	0.9	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
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°	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0
2.5°	1392.1	1374.6	1372.0	1368.6	1335.3	1310.3	1274.1	1234.5	1190.0	1144.7
5°	1608.3	1594.5	1592.0	1575.9	1538.0	1495.5	1431.2	1349.9	1267.0	1169.4
7.5°	1650.2	1647.7	1659.4	1658.9	1653.7	1620.1	1565.8	1469.1	1344.5	1199.8
10°	1463.3	1469.9	1505.0	1535.7	1618.7	1666.9	1655.1	1575.3	1424.3	1234.5
12.5°	1293.1	1285.3	1310.3	1345.1	1441.5	1585.1	1692.2	1664.0	1515.6	1273.9
15°	1186.3	1183.1	1197.2	1213.3	1286.8	1431.5	1649.1	1736.1	1603.4	1320.4
17.5°	1152.1	1149.5	1153.8	1157.9	1205.5	1317.5	1546.6	1780.3	1687.6	1373.5
20°	1180.0	1176.5	1176.0	1172.8	1192.6	1269.0	1453.9	1783.5	1763.1	1421.7
22.5°	1261.2	1257.2	1243.1	1230.5	1232.2	1275.6	1412.5	1751.9	1819.9	1466.8
25°	1408.5	1401.9	1372.6	1330.1	1303.1	1321.5	1418.8	1710.2	1874.2	1502.1
27.5°	1592.8	1584.2	1546.6	1483.4	1421.7	1399.3	1464.5	1681.5	1919.3	1529.1
30°	1773.4	1762.2	1725.2	1676.1	1585.9	1515.3	1546.9	1694.2	1972.9	1557.2
32.5°	1968.3	1957.7	1908.6	1847.8	1773.1	1678.1	1659.7	1755.9	2038.7	1596.6
35°	2215.0	2198.3	2128.5	2045.6	1966.3	1870.2	1812.5	1862.4	2126.3	1656.6
37.5°	2495.7	2473.4	2398.1	2283.6	2180.2	2072.6	1998.5	2008.8	2254.6	1736.9
40°	2760.5	2740.1	2670.6	2562.6	2432.9	2302.2	2223.3	2200.3	2431.7	1834.8
42.5°	2919.2	2900.8	2871.6	2825.9	2716.5	2583.3	2483.7	2434.0	2641.3	1952.0
45°	2928.1	2912.0	2951.4	3004.5	2983.0	2894.2	2772.8	2681.8	2851.8	2061.9
47.5°	2785.7	2774.8	2894.2	3079.7	3172.2	3209.5	3097.5	2908.9	3025.4	2140.9
50°	2397.6	2393.5	2639.3	2979.8	3244.2	3485.7	3440.0	3120.2	3160.1	2181.7
52.5°	2078.9	2064.2	2207.5	2660.0	3139.4	3630.9	3774.8	3327.5	3254.3	2189.4
55°	1576.7	1563.8	1743.5	2124.8	2801.5	3579.3	4019.7	3541.4	3321.7	2169.6
57.5°	845.8	837.8	1064.8	1414.2	2190.0	3269.2	4063.9	3767.6	3378.6	2117.1
60°	329.3	327.9	412.8	686.2	1331.0	2659.7	3840.8	3903.4	3414.2	2052.5
62.5°	199.2	203.6	217.3	308.1	588.0	1652.3	3326.6	3748.9	3438.0	1993.3
65°	164.8	165.1	166.8	211.6	281.6	691.3	2504.4	3240.8	3379.2	1888.0
67.5°	141.3	143.8	150.4	168.0	198.7	303.2	1441.8	2510.4	3021.1	1642.8
70°	111.4	114.8	123.2	138.1	153.3	189.8	532.9	1670.3	2308.0	1238.3
72.5°	93.9	93.6	97.9	112.3	121.7	133.5	205.0	935.9	1341.3	591.1
75°	72.6	75.5	81.0	93.9	99.6	96.8	111.1	341.9	480.6	179.1
77.5°	56.8	59.1	64.0	76.7	82.4	68.6	64.0	122.3	154.5	64.3
80°	25.6	27.6	43.6	56.6	67.2	47.4	34.7	62.6	68.6	29.3
82.5°	4.6	7.8	25.6	29.9	34.5	30.7	18.1	32.4	33.6	11.8
85°	0.3	0.6	8.9	10.9	13.8	10.0	5.5	12.9	11.2	4.0
87.5°	0.0	0.0	0.0	0.3	0.3	1.4	1.7	2.3	1.7	1.4
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°
1122.0	0°	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0
1124.6	2.5°	1103.9	1063.1	1023.5	991.1	972.1	940.0	918.7	915.3	906.4	914.1
1127.4	5°	1082.6	1009.7	935.9	869.9	815.6	745.6	693.3	671.2	652.0	658.6
1134.9	7.5°	1072.6	957.5	842.6	729.8	613.8	501.8	418.6	383.9	357.4	361.2
1143.2	10°	1059.1	903.2	723.2	550.9	395.6	285.1	227.7	206.4	194.7	194.9
1155.6	12.5°	1048.8	838.3	584.5	373.5	240.9	182.0	164.2	159.1	155.6	155.9
1174.2	15°	1043.6	762.0	447.6	248.9	172.3	154.2	149.9	147.6	145.3	145.0
1194.9	17.5°	1035.0	677.0	327.6	181.7	150.7	144.4	140.7	138.1	135.2	134.6
1212.7	20°	1022.1	580.5	239.4	153.6	141.3	136.4	131.2	127.8	124.3	123.7
1223.9	22.5°	998.2	478.6	184.0	142.1	134.4	128.9	122.6	118.6	115.1	114.6
1218.4	25°	954.0	383.0	155.0	134.9	128.3	121.7	114.8	109.4	106.2	105.7
1206.7	27.5°	898.0	300.9	140.7	128.3	120.6	114.6	106.8	101.6	98.8	98.2
1191.2	30°	832.0	231.7	132.4	120.9	111.4	106.2	99.3	95.0	93.3	93.3
1180.3	32.5°	760.8	185.2	128.9	113.4	103.4	97.6	92.2	90.4	89.9	89.6
1186.3	35°	693.9	160.8	127.2	107.4	96.2	90.7	88.4	88.7	89.9	89.9
1205.0	37.5°	634.5	153.0	126.3	103.1	89.9	85.0	86.4	89.0	87.9	87.9
1237.7	40°	580.8	153.9	125.7	99.9	84.7	81.8	84.7	82.7	79.8	79.5
1277.6	42.5°	539.7	161.1	124.6	97.3	81.5	79.5	78.4	75.2	74.9	75.5
1318.9	45°	509.9	167.4	124.3	96.2	78.1	74.4	72.9	69.8	75.5	76.9
1335.9	47.5°	474.6	167.4	124.3	92.2	72.3	70.9	68.6	65.2	70.9	72.3
1319.8	50°	428.9	156.8	119.4	87.6	67.8	66.9	62.9	58.6	57.4	58.3
1282.2	52.5°	371.2	137.5	107.1	81.2	63.2	61.4	56.6	53.4	52.5	52.5
1214.7	55°	305.5	115.1	90.4	72.1	58.3	55.1	51.7	50.2	49.4	48.8
1120.3	57.5°	248.3	94.5	72.6	64.0	53.7	49.7	48.5	46.8	45.4	44.5
1041.3	60°	203.8	74.4	60.0	56.8	49.1	45.4	45.1	42.8	39.0	38.5
976.1	62.5°	157.3	54.5	50.5	49.4	44.5	41.3	40.8	36.2	30.4	29.3
883.7	65°	111.1	42.5	40.8	43.4	39.6	36.7	35.3	28.4	22.4	21.5
739.6	67.5°	78.1	35.6	32.2	37.9	34.5	30.7	29.9	24.1	18.7	18.1
559.3	70°	55.7	29.0	26.4	32.4	27.6	27.0	25.3	20.1	15.2	14.6
276.8	72.5°	39.3	22.1	20.4	28.1	18.9	23.3	20.7	15.5	11.5	10.9
94.2	75°	29.0	15.8	14.4	16.4	13.8	17.5	14.6	10.3	7.2	6.9
42.5	77.5°	21.2	10.0	8.6	8.0	8.0	10.9	8.0	4.3	3.2	2.9
21.5	80°	14.9	4.6	4.0	3.4	3.2	2.6	1.1	0.6	0.3	0.3
7.5	82.5°	8.9	2.0	2.0	1.4	0.9	0.0	0.0	0.0	0.0	0.0
2.9	85°	2.0	0.9	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0
1.1	87.5°	0.3	0.3	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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