

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: P945357

Luminaire Tested: **GALN-SB1B-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945357
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-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 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: 4316 lumens
Efficiency: N/A
Efficacy: 108.4 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

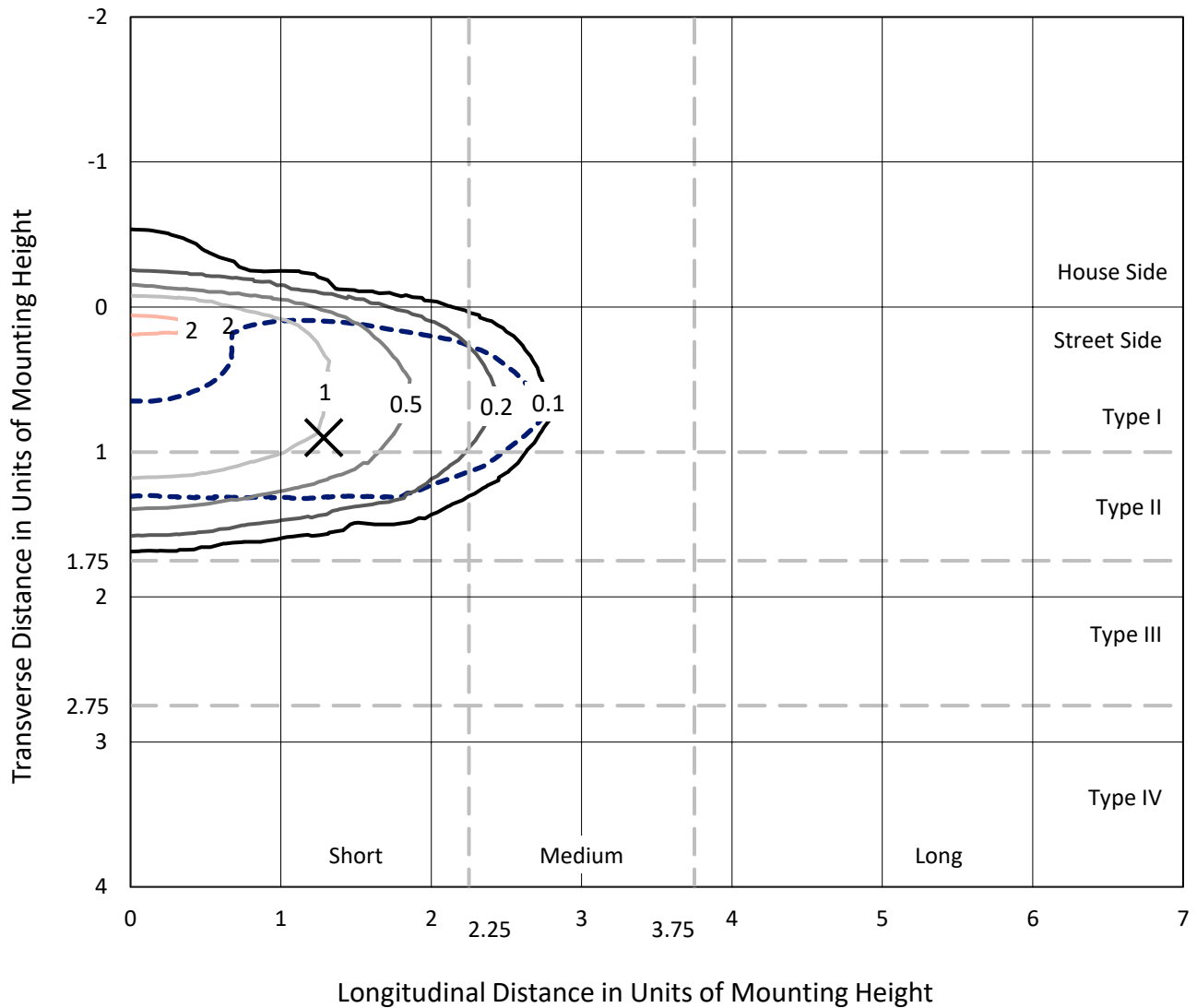
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

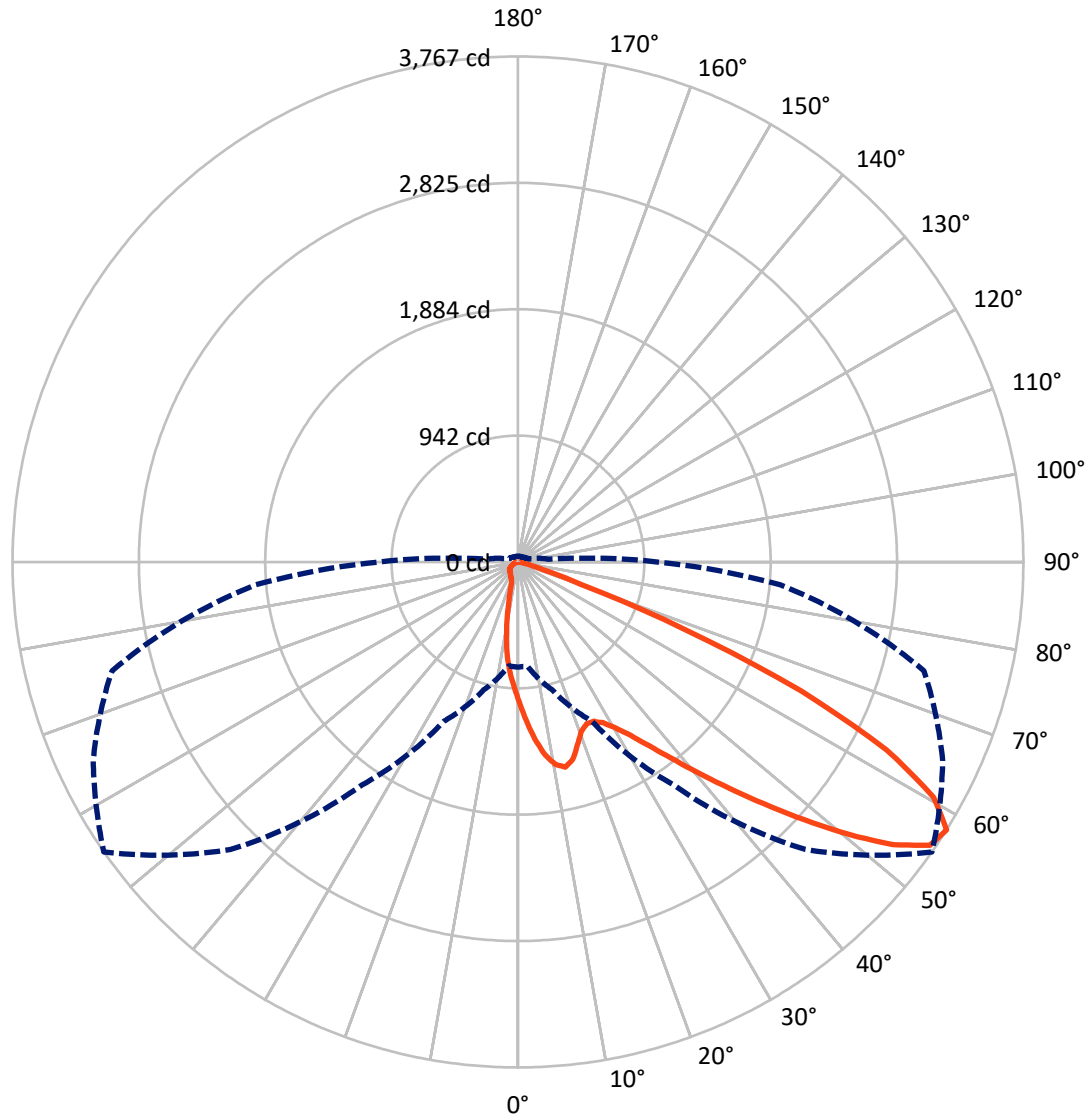
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	337.1	0.0	337.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	3978.9	0.0	3978.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	4316.0	0.0	4316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	2.2
10°-20°	233.7	5.4
20°-30°	374.0	8.7
30°-40°	633.0	14.7
40°-50°	1039.3	24.1
50°-60°	1142.2	26.5
60°-70°	655.2	15.2
70°-80°	133.9	3.1
80°-90°	7.9	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°	4316.0	100.0
0°-180°	4316.0	100.0

Coefficient of Utilization



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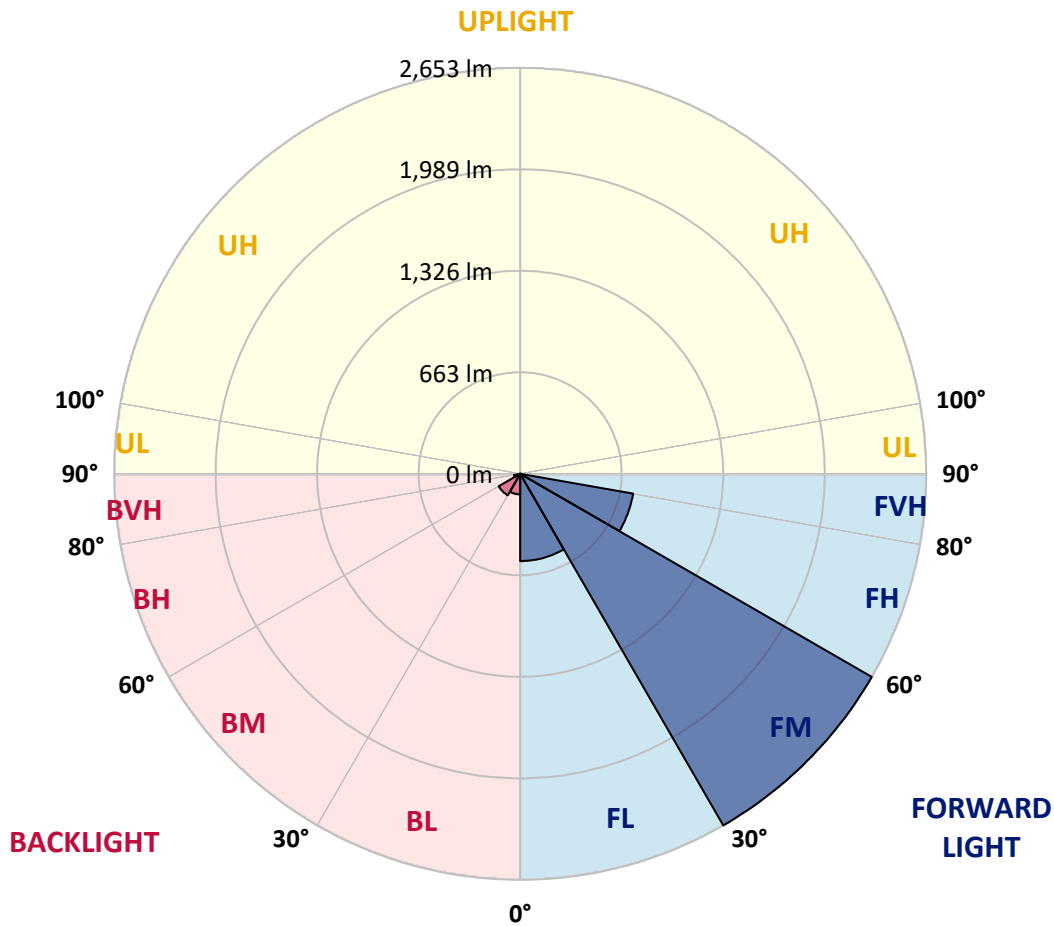
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	570.0	13.2			
FM (30°-60°)	2652.6	61.5			
FH (60°-80°)	749.0	17.4			G1/1800
FVH (80°-90°)	7.4	0.2			G0/10
BL (0°-30°)	134.6	3.1	B1/500		
BM (30°-60°)	161.9	3.8	B0/220		
BH (60°-80°)	40.1	0.9	B0/110		G0/110
BVH (80°-90°)	0.5	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°	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0
2.5°	1290.5	1274.2	1271.9	1268.7	1237.8	1214.6	1181.1	1144.4	1103.1	1061.1
5°	1490.9	1478.1	1475.7	1460.8	1425.7	1386.3	1326.7	1251.4	1174.4	1084.0
7.5°	1529.7	1527.3	1538.3	1537.7	1532.9	1501.8	1451.5	1361.8	1246.3	1112.2
10°	1356.5	1362.6	1395.1	1423.5	1500.5	1545.2	1534.3	1460.3	1320.3	1144.4
12.5°	1198.7	1191.5	1214.6	1246.8	1336.3	1469.3	1568.6	1542.5	1404.9	1180.8
15°	1099.7	1096.7	1109.8	1124.7	1192.8	1326.9	1528.7	1609.3	1486.4	1223.9
17.5°	1068.0	1065.6	1069.6	1073.3	1117.5	1221.3	1433.7	1650.3	1564.3	1273.2
20°	1093.8	1090.6	1090.1	1087.2	1105.5	1176.3	1347.7	1653.2	1634.3	1317.9
22.5°	1169.1	1165.4	1152.4	1140.6	1142.2	1182.4	1309.4	1623.9	1687.0	1359.7
25°	1305.7	1299.5	1272.4	1233.0	1208.0	1225.0	1315.2	1585.4	1737.3	1392.4
27.5°	1476.5	1468.5	1433.7	1375.1	1317.9	1297.1	1357.5	1558.7	1779.1	1417.4
30°	1643.9	1633.5	1599.2	1553.7	1470.1	1404.7	1433.9	1570.5	1828.9	1443.5
32.5°	1824.6	1814.8	1769.3	1712.8	1643.6	1555.6	1538.5	1627.7	1889.8	1480.0
35°	2053.2	2037.8	1973.1	1896.2	1822.7	1733.6	1680.1	1726.4	1971.0	1535.6
37.5°	2313.5	2292.7	2223.0	2116.8	2021.0	1921.2	1852.6	1862.1	2089.9	1610.1
40°	2558.9	2540.0	2475.6	2375.5	2255.2	2134.1	2060.9	2039.6	2254.2	1700.9
42.5°	2706.0	2689.0	2661.9	2619.6	2518.2	2394.7	2302.3	2256.3	2448.4	1809.4
45°	2714.3	2699.4	2735.9	2785.1	2765.1	2682.9	2570.3	2486.0	2643.5	1911.4
47.5°	2582.3	2572.2	2682.9	2854.8	2940.5	2975.1	2871.3	2696.5	2804.5	1984.6
50°	2222.5	2218.8	2446.6	2762.2	3007.3	3231.1	3188.8	2892.3	2929.3	2022.3
52.5°	1927.1	1913.5	2046.3	2465.7	2910.2	3365.8	3499.1	3084.5	3016.6	2029.5
55°	1461.6	1449.6	1616.2	1969.7	2596.9	3317.9	3726.1	3282.8	3079.2	2011.2
57.5°	784.0	776.6	987.1	1311.0	2030.1	3030.5	3767.1	3492.5	3131.9	1962.5
60°	305.3	303.9	382.7	636.1	1233.8	2465.5	3560.3	3618.4	3164.9	1902.6
62.5°	184.7	188.7	201.5	285.6	545.0	1531.6	3083.7	3475.2	3186.9	1847.8
65°	152.8	153.0	154.6	196.1	261.1	640.8	2321.5	3004.1	3132.4	1750.1
67.5°	130.9	133.3	139.5	155.7	184.2	281.0	1336.5	2327.1	2800.5	1522.8
70°	103.3	106.5	114.2	128.0	142.1	175.9	493.9	1548.4	2139.4	1147.8
72.5°	87.0	86.8	90.8	104.1	112.8	123.8	190.0	867.6	1243.4	548.0
75°	67.3	70.0	75.0	87.0	92.3	89.7	103.0	317.0	445.5	166.1
77.5°	52.7	54.8	59.3	71.1	76.4	63.6	59.3	113.4	143.2	59.6
80°	23.7	25.5	40.5	52.4	62.3	43.9	32.2	58.0	63.6	27.1
82.5°	4.3	7.2	23.7	27.7	31.9	28.5	16.8	30.1	31.1	10.9
85°	0.3	0.5	8.3	10.1	12.8	9.3	5.1	12.0	10.4	3.7
87.5°	0.0	0.0	0.0	0.3	0.3	1.3	1.6	2.1	1.6	1.3
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°
1040.0	0°	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0
1042.4	2.5°	1023.3	985.5	948.8	918.7	901.1	871.3	851.6	848.4	840.2	847.4
1045.1	5°	1003.6	936.0	867.6	806.4	756.1	691.1	642.7	622.2	604.4	610.5
1052.0	7.5°	994.3	887.6	781.1	676.5	569.0	465.2	388.0	355.8	331.3	334.8
1059.7	10°	981.8	837.3	670.4	510.7	366.7	264.3	211.0	191.3	180.4	180.7
1071.2	12.5°	972.2	777.1	541.8	346.2	223.3	168.7	152.2	147.4	144.2	144.5
1088.5	15°	967.4	706.3	414.9	230.7	159.7	142.9	138.9	136.8	134.7	134.4
1107.6	17.5°	959.4	627.5	303.7	168.5	139.7	133.9	130.4	128.0	125.3	124.8
1124.1	20°	947.4	538.1	222.0	142.4	130.9	126.4	121.6	118.4	115.2	114.7
1134.5	22.5°	925.3	443.6	170.6	131.7	124.6	119.5	113.6	109.9	106.7	106.2
1129.5	25°	884.4	355.0	143.7	125.1	119.0	112.8	106.5	101.4	98.5	97.9
1118.6	27.5°	832.5	278.9	130.4	119.0	111.8	106.2	99.0	94.2	91.5	91.0
1104.2	30°	771.3	214.8	122.7	112.0	103.3	98.5	92.1	88.1	86.5	86.5
1094.1	32.5°	705.3	171.7	119.5	105.1	95.8	90.5	85.4	83.8	83.3	83.0
1099.7	35°	643.2	149.0	117.9	99.5	89.2	84.1	82.0	82.2	83.3	83.3
1117.0	37.5°	588.2	141.8	117.1	95.5	83.3	78.8	80.1	82.5	81.4	81.4
1147.3	40°	538.4	142.6	116.6	92.6	78.5	75.8	78.5	76.6	74.0	73.7
1184.3	42.5°	500.3	149.3	115.5	90.2	75.6	73.7	72.7	69.7	69.5	70.0
1222.6	45°	472.7	155.2	115.2	89.2	72.4	68.9	67.6	64.7	70.0	71.3
1238.3	47.5°	439.9	155.2	115.2	85.4	67.1	65.7	63.6	60.4	65.7	67.1
1223.4	50°	397.6	145.3	110.7	81.2	62.8	62.0	58.3	54.3	53.2	54.0
1188.6	52.5°	344.1	127.5	99.3	75.3	58.5	57.0	52.4	49.5	48.7	48.7
1126.0	55°	283.2	106.7	83.8	66.8	54.0	51.1	47.9	46.6	45.8	45.2
1038.5	57.5°	230.2	87.6	67.3	59.3	49.8	46.0	45.0	43.4	42.0	41.3
965.3	60°	189.0	68.9	55.6	52.7	45.5	42.0	41.8	39.7	36.2	35.7
904.9	62.5°	145.8	50.6	46.8	45.8	41.3	38.3	37.8	33.5	28.2	27.1
819.2	65°	103.0	39.4	37.8	40.2	36.7	34.1	32.7	26.3	20.8	20.0
685.6	67.5°	72.4	33.0	29.8	35.1	31.9	28.5	27.7	22.4	17.3	16.8
518.4	70°	51.6	26.9	24.5	30.1	25.5	25.0	23.4	18.6	14.1	13.6
256.6	72.5°	36.5	20.5	18.9	26.1	17.6	21.6	19.2	14.4	10.6	10.1
87.3	75°	26.9	14.6	13.3	15.2	12.8	16.2	13.6	9.6	6.7	6.4
39.4	77.5°	19.7	9.3	8.0	7.5	7.5	10.1	7.5	4.0	2.9	2.7
20.0	80°	13.8	4.3	3.7	3.2	2.9	2.4	1.1	0.5	0.3	0.3
6.9	82.5°	8.3	1.9	1.9	1.3	0.8	0.0	0.0	0.0	0.0	0.0
2.7	85°	1.9	0.8	0.8	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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