

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: P946071

Luminaire Tested: **GALN-SB1D-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946071
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-SB1D-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7799 lumens
Efficiency: N/A
Efficacy: 98.0 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

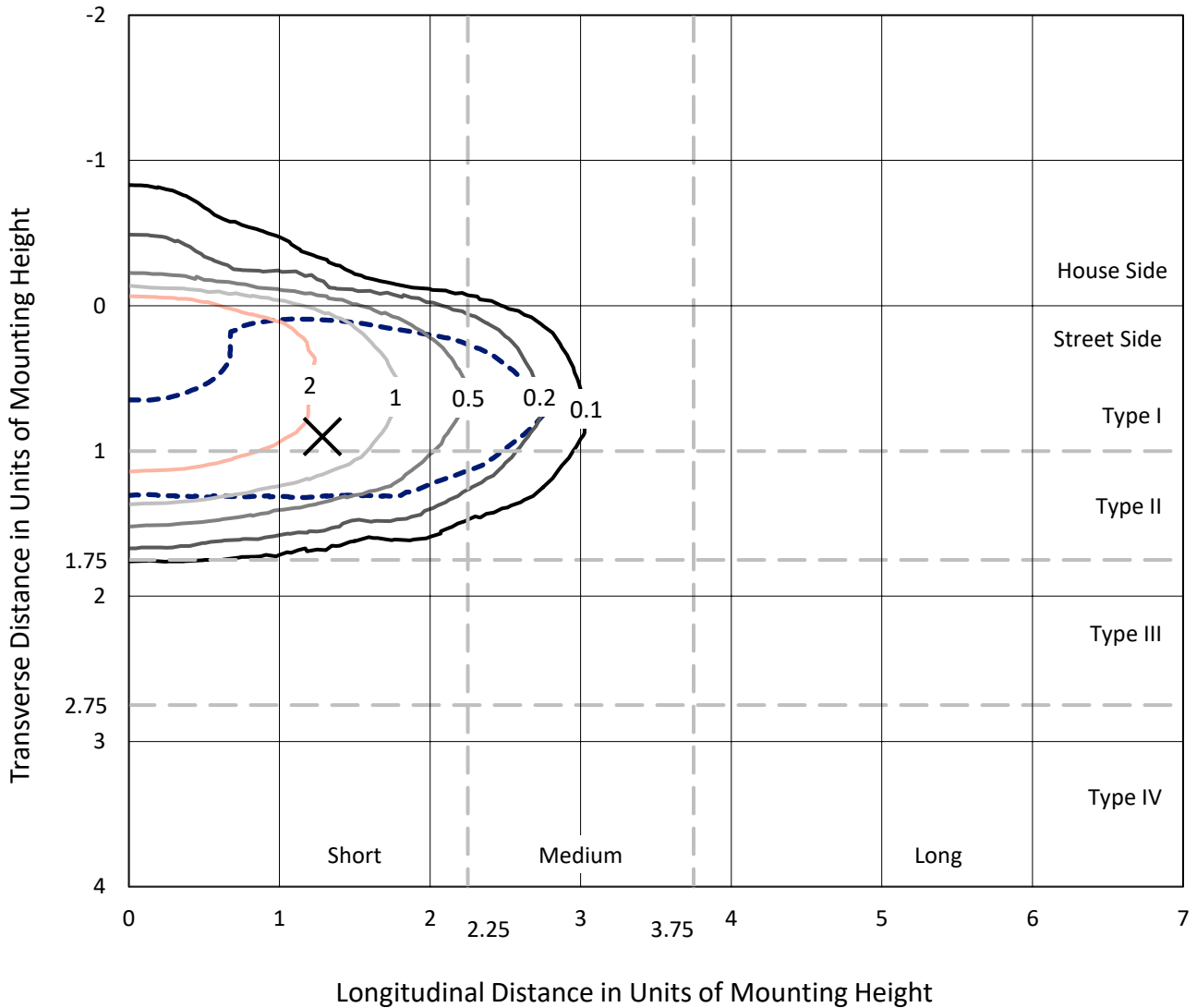
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

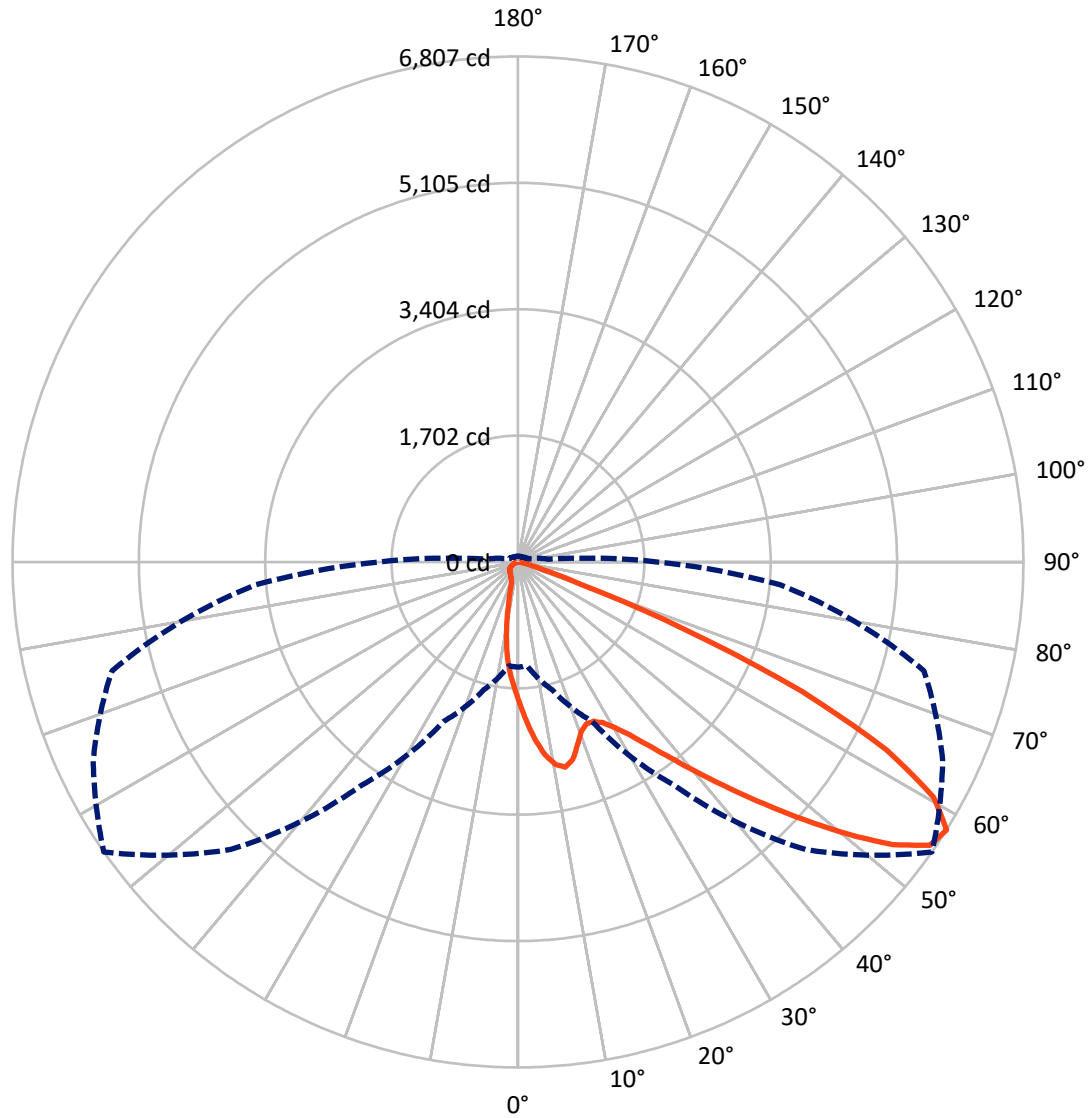
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	609.1	0.0	609.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	7189.9	0.0	7189.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	7799.0	0.0	7799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.9	2.2
10°-20°	422.4	5.4
20°-30°	675.8	8.7
30°-40°	1143.9	14.7
40°-50°	1878.0	24.1
50°-60°	2064.0	26.5
60°-70°	1183.9	15.2
70°-80°	241.9	3.1
80°-90°	14.3	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°	7799.0	100.0
0°-180°	7799.0	100.0

Coefficient of Utilization



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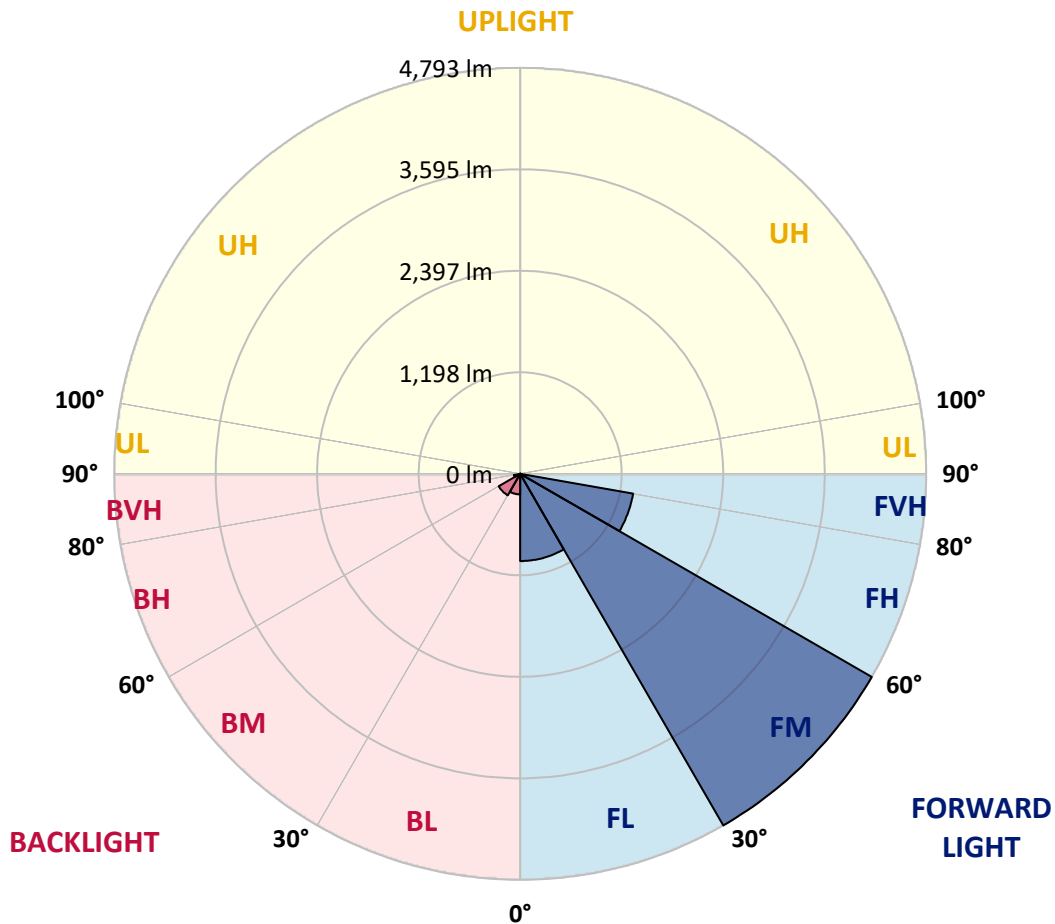
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1029.9	13.2			
FM (30°-60°)	4793.3	61.5			
FH (60°-80°)	1353.4	17.4			G1/1800
FVH (80°-90°)	13.3	0.2			G1/100
BL (0°-30°)	243.2	3.1	B1/500		
BM (30°-60°)	292.5	3.8	B1/1000		
BH (60°-80°)	72.4	0.9	B0/110		G0/110
BVH (80°-90°)	1.0	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°	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4
2.5°	2331.9	2302.6	2298.2	2292.5	2236.7	2194.8	2134.2	2067.9	1993.3	1917.4
5°	2694.0	2670.9	2666.6	2639.7	2576.2	2505.0	2397.3	2261.2	2122.2	1958.7
7.5°	2764.2	2759.9	2779.6	2778.7	2770.0	2713.7	2622.8	2460.8	2252.1	2009.7
10°	2451.2	2462.2	2520.9	2572.3	2711.3	2792.1	2772.4	2638.7	2385.8	2067.9
12.5°	2166.0	2153.0	2194.8	2253.0	2414.6	2655.1	2834.4	2787.3	2538.7	2133.8
15°	1987.1	1981.8	2005.4	2032.3	2155.4	2397.8	2762.3	2908.0	2685.8	2211.7
17.5°	1929.9	1925.5	1932.7	1939.5	2019.3	2206.9	2590.6	2982.1	2826.7	2300.6
20°	1976.5	1970.7	1969.8	1964.5	1997.7	2125.6	2435.3	2987.4	2953.2	2381.4
22.5°	2112.6	2105.9	2082.3	2061.1	2064.0	2136.6	2366.0	2934.5	3048.4	2456.9
25°	2359.3	2348.2	2299.2	2228.0	2182.8	2213.6	2376.6	2864.7	3139.3	2516.1
27.5°	2668.0	2653.6	2590.6	2484.8	2381.4	2343.9	2453.1	2816.6	3214.8	2561.3
30°	2970.5	2951.8	2889.7	2807.5	2656.5	2538.2	2591.1	2837.8	3304.8	2608.4
32.5°	3297.1	3279.3	3197.0	3095.1	2970.1	2810.9	2780.1	2941.2	3414.9	2674.3
35°	3710.2	3682.3	3565.4	3426.4	3293.7	3132.6	3035.9	3119.6	3561.6	2774.8
37.5°	4180.5	4143.0	4017.0	3825.1	3652.0	3471.6	3347.6	3364.9	3776.5	2909.5
40°	4623.9	4589.7	4473.4	4292.5	4075.2	3856.4	3724.1	3685.6	4073.2	3073.4
42.5°	4889.8	4859.0	4810.0	4733.5	4550.3	4327.2	4160.3	4077.1	4424.3	3269.7
45°	4904.7	4877.8	4943.7	5032.6	4996.6	4848.0	4644.6	4492.1	4776.8	3453.8
47.5°	4666.2	4647.9	4848.0	5158.6	5313.5	5376.0	5188.5	4872.5	5067.8	3586.1
50°	4016.0	4009.3	4420.9	4991.3	5434.2	5838.6	5762.2	5226.4	5293.3	3654.4
52.5°	3482.2	3457.7	3697.7	4455.6	5258.7	6082.0	6322.9	5573.7	5451.0	3667.4
55°	2641.1	2619.5	2920.5	3559.2	4692.6	5995.4	6733.1	5931.9	5564.0	3634.2
57.5°	1416.7	1403.3	1783.7	2368.9	3668.3	5476.0	6807.2	6310.9	5659.3	3546.2
60°	551.6	549.2	691.5	1149.4	2229.5	4455.1	6433.5	6538.3	5718.9	3438.0
62.5°	333.7	341.0	364.0	516.0	984.9	2767.6	5572.2	6279.6	5758.8	3338.9
65°	276.0	276.5	279.4	354.4	471.8	1158.0	4194.9	5428.4	5660.2	3162.4
67.5°	236.6	240.9	252.0	281.3	332.8	507.8	2415.1	4205.0	5060.5	2751.7
70°	186.6	192.4	206.3	231.3	256.8	317.9	892.6	2797.9	3866.0	2074.1
72.5°	157.3	156.8	164.0	188.0	203.9	223.6	343.4	1567.7	2246.8	990.2
75°	121.7	126.5	135.6	157.3	166.9	162.1	186.1	572.8	805.0	300.1
77.5°	95.2	99.1	107.2	128.4	138.0	114.9	107.2	204.9	258.7	107.7
80°	42.8	46.2	73.1	94.7	112.5	79.3	58.2	104.8	114.9	49.1
82.5°	7.7	13.0	42.8	50.0	57.7	51.5	30.3	54.3	56.3	19.7
85°	0.5	1.0	14.9	18.3	23.1	16.8	9.1	21.6	18.8	6.7
87.5°	0.0	0.0	0.0	0.5	0.5	2.4	2.9	3.8	2.9	2.4
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°
1879.4	0°	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4
1883.7	2.5°	1849.1	1780.8	1714.4	1660.1	1628.3	1574.5	1538.9	1533.1	1518.2	1531.2
1888.5	5°	1813.5	1691.3	1567.7	1457.1	1366.2	1248.9	1161.4	1124.3	1092.1	1103.2
1901.0	7.5°	1796.7	1603.8	1411.4	1222.5	1028.2	840.6	701.2	643.0	598.7	605.0
1915.0	10°	1774.0	1512.9	1211.4	922.9	662.7	477.5	381.4	345.8	326.1	326.5
1935.6	12.5°	1756.7	1404.2	979.1	625.7	403.5	304.9	275.1	266.4	260.6	261.1
1966.9	15°	1748.1	1276.3	749.7	416.9	288.5	258.2	251.0	247.2	243.3	242.9
2001.5	17.5°	1733.7	1134.0	548.7	304.4	252.5	241.9	235.6	231.3	226.5	225.5
2031.3	20°	1712.0	972.4	401.1	257.3	236.6	228.4	219.8	214.0	208.2	207.3
2050.1	22.5°	1672.1	801.7	308.3	238.0	225.1	215.9	205.3	198.6	192.8	191.9
2041.0	25°	1598.0	641.5	259.7	226.0	215.0	203.9	192.4	183.2	177.9	177.0
2021.2	27.5°	1504.3	504.0	235.6	215.0	202.0	191.9	178.9	170.2	165.4	164.5
1995.3	30°	1393.7	388.1	221.7	202.5	186.6	177.9	166.4	159.2	156.3	156.3
1977.0	32.5°	1274.4	310.2	215.9	190.0	173.1	163.5	154.4	151.5	150.5	150.0
1987.1	35°	1162.3	269.3	213.0	179.9	161.1	152.0	148.1	148.6	150.5	150.5
2018.3	37.5°	1062.8	256.3	211.6	172.6	150.5	142.3	144.8	149.1	147.2	147.2
2073.2	40°	972.9	257.8	210.6	167.4	141.9	137.1	141.9	138.5	133.7	133.2
2140.0	42.5°	904.1	269.8	208.7	163.0	136.6	133.2	131.3	126.0	125.5	126.5
2209.3	45°	854.1	280.4	208.2	161.1	130.8	124.6	122.1	116.9	126.5	128.9
2237.6	47.5°	794.9	280.4	208.2	154.4	121.2	118.8	114.9	109.2	118.8	121.2
2210.7	50°	718.5	262.6	200.1	146.7	113.5	112.1	105.3	98.1	96.2	97.6
2147.7	52.5°	621.8	230.4	179.4	136.1	105.8	102.9	94.7	89.4	88.0	88.0
2034.7	55°	511.7	192.8	151.5	120.7	97.6	92.3	86.6	84.2	82.7	81.8
1876.5	57.5°	416.0	158.2	121.7	107.2	89.9	83.2	81.3	78.4	76.0	74.5
1744.2	60°	341.4	124.6	100.5	95.2	82.2	76.0	75.5	71.7	65.4	64.4
1635.1	62.5°	263.5	91.4	84.6	82.7	74.5	69.2	68.3	60.6	51.0	49.1
1480.2	65°	186.1	71.2	68.3	72.6	66.4	61.6	59.2	47.6	37.5	36.1
1238.8	67.5°	130.8	59.6	53.9	63.5	57.7	51.5	50.0	40.4	31.3	30.3
936.8	70°	93.3	48.6	44.2	54.3	46.2	45.2	42.3	33.7	25.5	24.5
463.6	72.5°	65.9	37.0	34.1	47.1	31.7	39.0	34.6	26.0	19.2	18.3
157.7	75°	48.6	26.4	24.0	27.4	23.1	29.3	24.5	17.3	12.0	11.5
71.2	77.5°	35.6	16.8	14.4	13.5	13.5	18.3	13.5	7.2	5.3	4.8
36.1	80°	25.0	7.7	6.7	5.8	5.3	4.3	1.9	1.0	0.5	0.5
12.5	82.5°	14.9	3.4	3.4	2.4	1.4	0.0	0.0	0.0	0.0	0.0
4.8	85°	3.4	1.4	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
1.9	87.5°	0.5	0.5	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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