

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: P946050

Luminaire Tested: **GALN-SB1D-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946050
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-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 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: 7547 lumens
Efficiency: N/A
Efficacy: 94.8 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

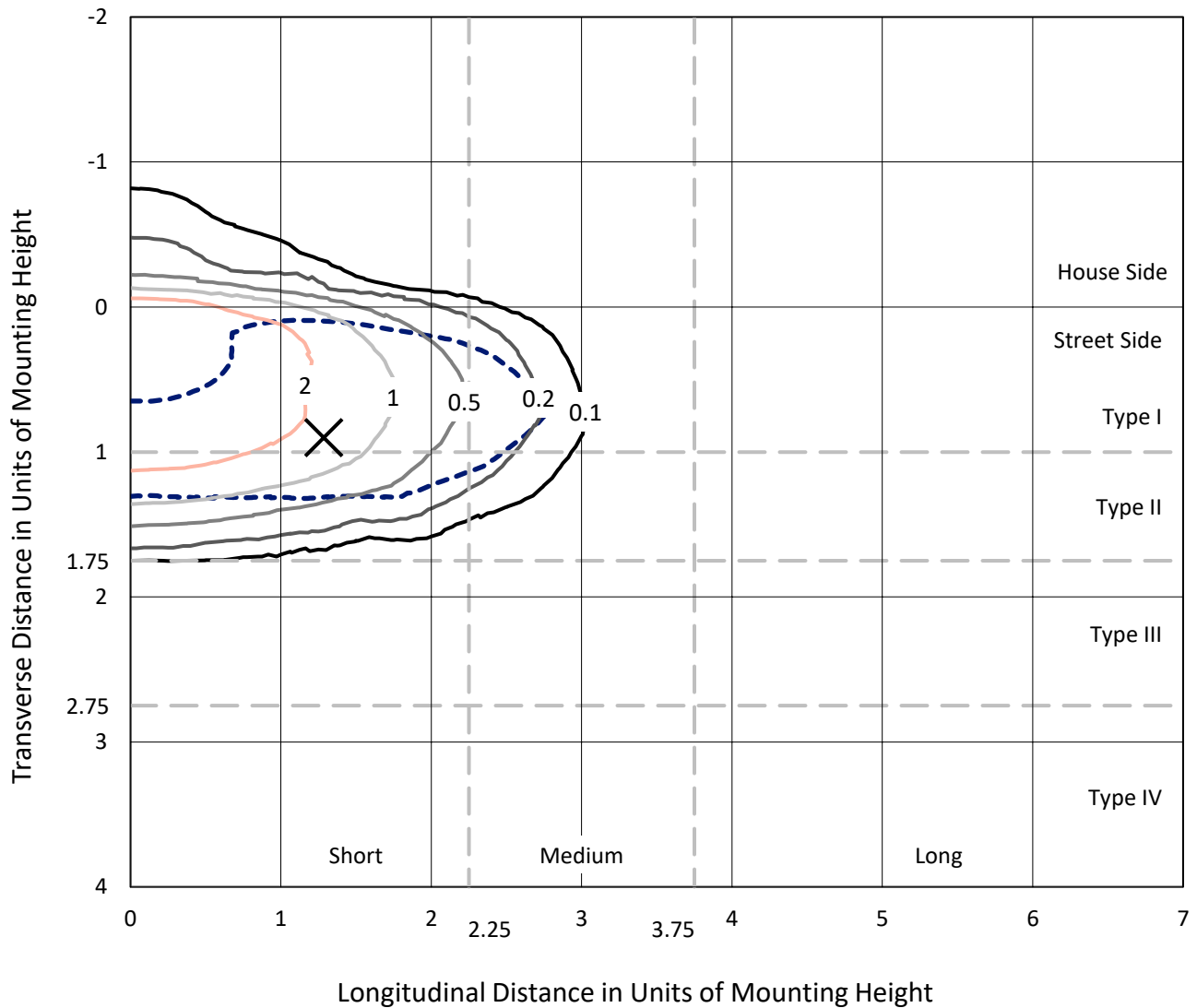
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

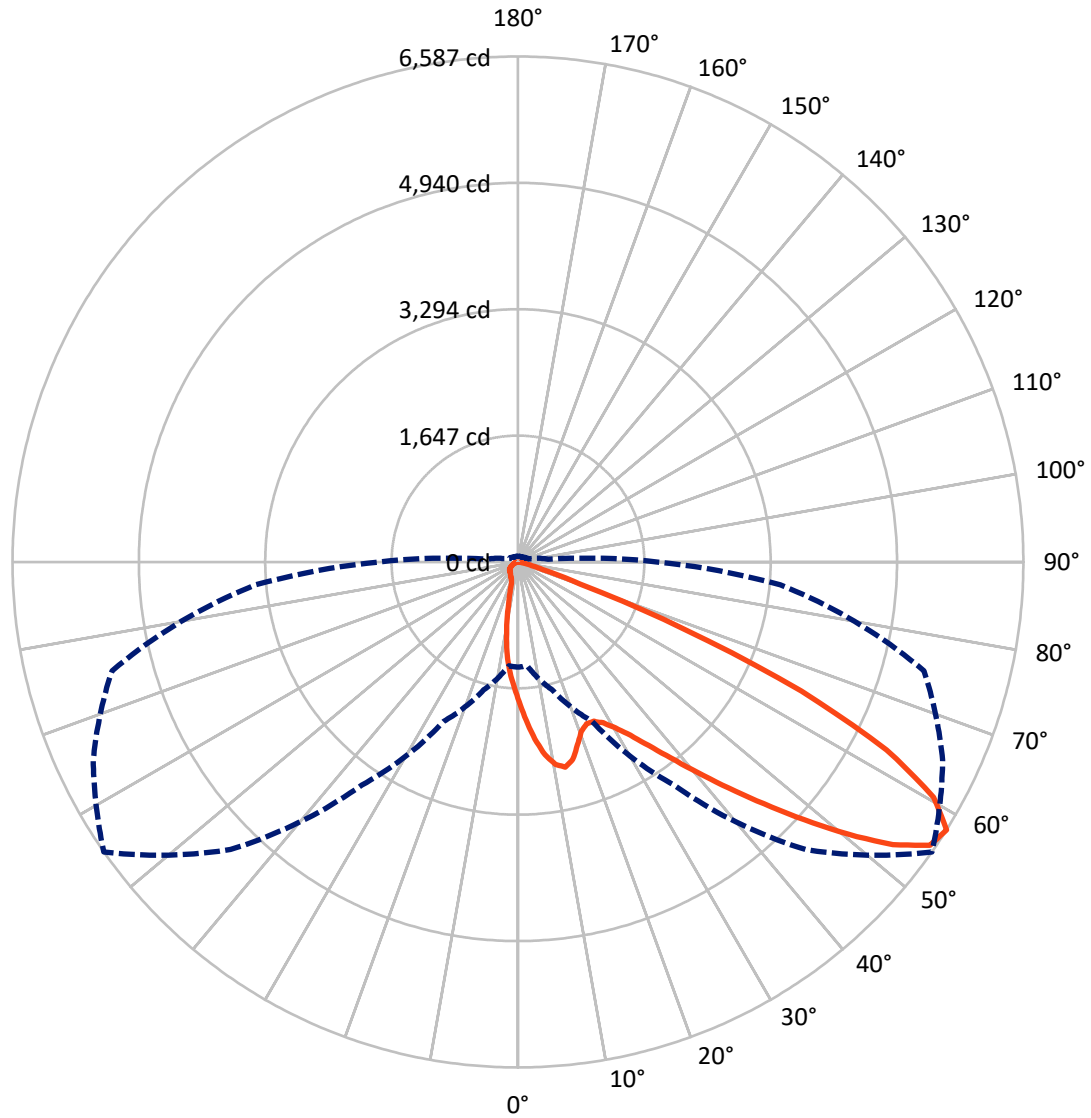
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	589.4	0.0	589.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	6957.6	0.0	6957.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	7547.0	0.0	7547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	2.2
10°-20°	408.7	5.4
20°-30°	654.0	8.7
30°-40°	1106.9	14.7
40°-50°	1817.3	24.1
50°-60°	1997.3	26.5
60°-70°	1145.7	15.2
70°-80°	234.1	3.1
80°-90°	13.8	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°	7547.0	100.0
0°-180°	7547.0	100.0

Coefficient of Utilization



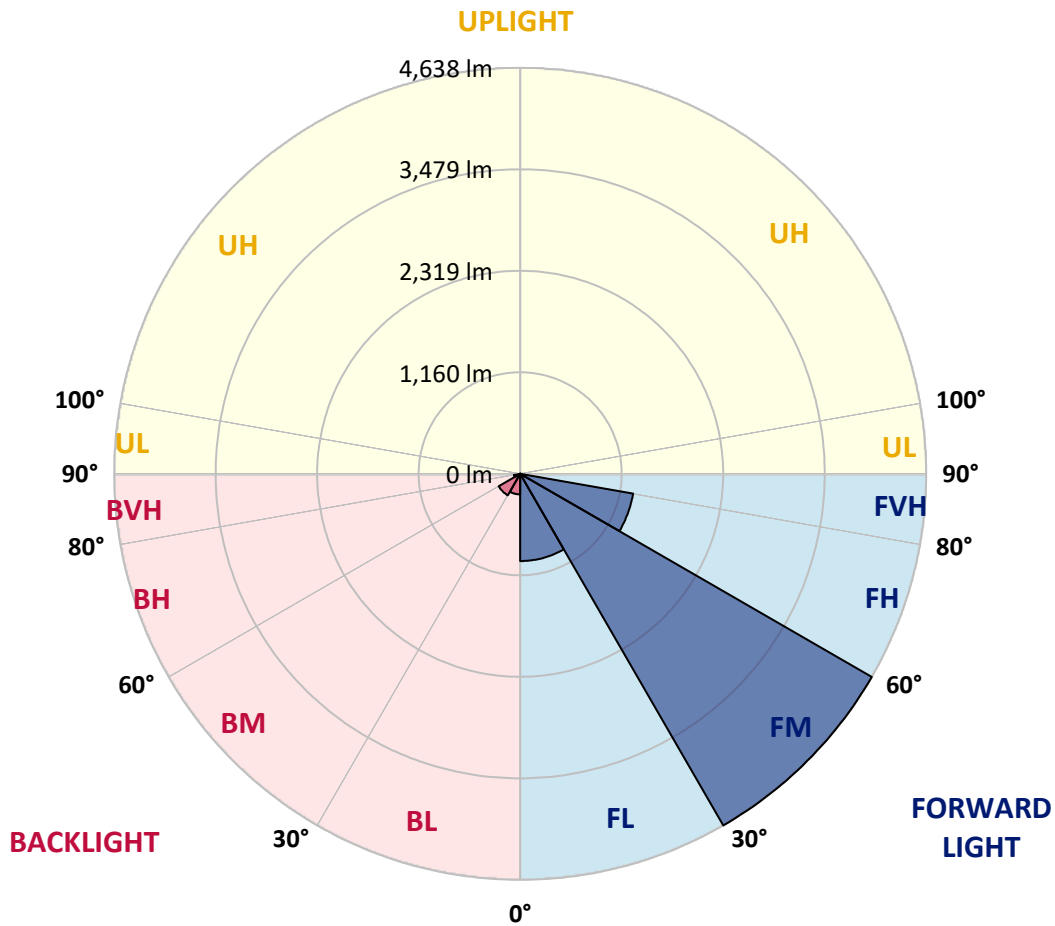
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	996.6	13.2			
FM (30°-60°)	4638.4	61.5			
FH (60°-80°)	1309.7	17.4			G1/1800
FVH (80°-90°)	12.9	0.2			G1/100
BL (0°-30°)	235.3	3.1	B1/500		
BM (30°-60°)	283.1	3.8	B1/1000		
BH (60°-80°)	70.1	0.9	B0/110		G0/110
BVH (80°-90°)	0.9	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°	1818.6	1818.6	1818.6	1818.6	1818.6	1818.6	1818.6	1818.6	1818.6	1818.6
2.5°	2256.5	2228.2	2224.0	2218.4	2164.4	2123.9	2065.3	2001.1	1928.9	1855.4
5°	2607.0	2584.6	2580.4	2554.4	2493.0	2424.1	2319.8	2188.1	2053.6	1895.4
7.5°	2674.9	2670.7	2689.8	2688.9	2680.5	2626.0	2538.1	2381.3	2179.3	1944.8
10°	2372.0	2382.7	2439.4	2489.2	2623.7	2701.9	2682.8	2553.5	2308.7	2001.1
12.5°	2096.0	2083.4	2123.9	2180.2	2336.6	2569.3	2742.9	2697.2	2456.7	2064.8
15°	1922.9	1917.8	1940.6	1966.6	2085.8	2320.3	2673.0	2814.1	2599.1	2140.2
17.5°	1867.5	1863.3	1870.3	1876.8	1954.1	2135.6	2506.9	2885.7	2735.4	2226.3
20°	1912.6	1907.1	1906.1	1901.0	1933.1	2056.9	2356.6	2890.8	2857.8	2304.5
22.5°	2044.3	2037.8	2015.0	1994.5	1997.3	2067.6	2289.6	2839.6	2949.9	2377.5
25°	2283.1	2272.4	2224.9	2156.0	2112.3	2142.1	2299.8	2772.2	3037.9	2434.8
27.5°	2581.8	2567.9	2506.9	2404.5	2304.5	2268.2	2373.8	2725.6	3111.0	2478.5
30°	2874.6	2856.4	2796.4	2716.8	2570.7	2456.2	2507.4	2746.1	3198.0	2524.1
32.5°	3190.5	3173.3	3093.7	2995.1	2874.1	2720.1	2690.3	2846.2	3304.5	2587.9
35°	3590.3	3563.3	3450.2	3315.7	3187.3	3031.4	2937.8	3018.8	3446.5	2685.1
37.5°	4045.4	4009.1	3887.2	3701.5	3534.0	3359.5	3239.4	3256.1	3654.5	2815.4
40°	4474.5	4441.4	4328.8	4153.8	3943.5	3731.8	3603.8	3566.5	3941.6	2974.1
42.5°	4731.8	4702.0	4654.6	4580.6	4403.3	4187.3	4025.9	3945.4	4281.3	3164.0
45°	4746.2	4720.2	4783.9	4870.0	4835.1	4691.3	4494.5	4347.0	4622.5	3342.2
47.5°	4515.4	4497.7	4691.3	4992.0	5141.8	5202.3	5020.8	4715.1	4904.0	3470.2
50°	3886.3	3879.7	4278.1	4830.0	5258.6	5650.0	5576.0	5057.6	5122.3	3536.3
52.5°	3369.7	3346.0	3578.2	4311.6	5088.8	5885.5	6118.6	5393.6	5274.9	3548.9
55°	2555.8	2534.8	2826.2	3444.2	4541.0	5801.7	6515.6	5740.3	5384.3	3516.8
57.5°	1371.0	1357.9	1726.0	2292.4	3549.8	5299.1	6587.2	6107.0	5476.4	3431.6
60°	533.8	531.4	669.2	1112.2	2157.4	4311.1	6225.6	6327.1	5534.1	3326.9
62.5°	323.0	329.9	352.3	499.3	953.1	2678.2	5392.2	6076.7	5572.7	3231.0
65°	267.1	267.6	270.4	343.0	456.5	1120.6	4059.4	5253.0	5477.3	3060.2
67.5°	229.0	233.1	243.9	272.2	322.0	491.4	2337.1	4069.1	4897.0	2662.8
70°	180.6	186.1	199.6	223.8	248.5	307.6	863.7	2707.5	3741.1	2007.1
72.5°	152.2	151.7	158.7	182.0	197.3	216.4	332.3	1517.1	2174.2	958.2
75°	117.7	122.4	131.2	152.2	161.5	156.8	180.1	554.2	779.0	290.4
77.5°	92.1	95.9	103.8	124.3	133.6	111.2	103.8	198.2	250.4	104.2
80°	41.4	44.7	70.7	91.7	108.9	76.8	56.3	101.4	111.2	47.5
82.5°	7.4	12.6	41.4	48.4	55.8	49.8	29.3	52.6	54.4	19.1
85°	0.5	0.9	14.4	17.7	22.3	16.3	8.8	20.9	18.1	6.5
87.5°	0.0	0.0	0.0	0.5	0.5	2.3	2.8	3.7	2.8	2.3
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°
1818.6	0°	1818.6	1818.6	1818.6	1818.6	1818.6	1818.6	1818.6	1818.6	1818.6	1818.6
1822.8	2.5°	1789.3	1723.2	1659.0	1606.4	1575.7	1523.6	1489.2	1483.6	1469.2	1481.7
1827.5	5°	1754.9	1636.7	1517.1	1410.1	1322.1	1208.5	1123.9	1088.0	1056.8	1067.5
1839.6	7.5°	1738.6	1552.0	1365.8	1183.0	994.9	813.5	678.5	622.2	579.4	585.4
1853.1	10°	1716.7	1464.0	1172.3	893.0	641.3	462.1	369.0	334.6	315.5	316.0
1873.1	12.5°	1700.0	1358.9	947.5	605.4	390.4	295.0	266.2	257.8	252.2	252.7
1903.3	15°	1691.6	1235.1	725.5	403.5	279.2	249.9	242.9	239.2	235.5	235.0
1936.8	17.5°	1677.6	1097.3	531.0	294.6	244.3	234.1	228.0	223.8	219.2	218.3
1965.7	20°	1656.7	941.0	388.1	249.0	229.0	221.0	212.7	207.1	201.5	200.6
1983.8	22.5°	1618.1	775.8	298.3	230.4	217.8	208.9	198.7	192.2	186.6	185.7
1975.0	25°	1546.4	620.8	251.3	218.7	208.0	197.3	186.1	177.3	172.2	171.3
1955.9	27.5°	1455.7	487.7	228.0	208.0	195.5	185.7	173.1	164.7	160.1	159.2
1930.8	30°	1348.6	375.5	214.5	195.9	180.6	172.2	161.0	154.0	151.2	151.2
1913.1	32.5°	1233.2	300.2	208.9	183.8	167.5	158.2	149.4	146.6	145.7	145.2
1922.9	35°	1124.8	260.6	206.2	174.0	155.9	147.1	143.3	143.8	145.7	145.7
1953.1	37.5°	1028.5	248.0	204.8	167.1	145.7	137.7	140.1	144.3	142.4	142.4
2006.2	40°	941.4	249.4	203.8	161.9	137.3	132.6	137.3	134.0	129.4	128.9
2070.9	42.5°	874.9	261.1	202.0	157.8	132.2	128.9	127.0	121.9	121.5	122.4
2137.9	45°	826.5	271.3	201.5	155.9	126.6	120.5	118.2	113.1	122.4	124.7
2165.3	47.5°	769.2	271.3	201.5	149.4	117.3	114.9	111.2	105.6	114.9	117.3
2139.3	50°	695.3	254.1	193.6	141.9	109.8	108.4	101.9	94.9	93.1	94.5
2078.3	52.5°	601.7	222.9	173.6	131.7	102.4	99.6	91.7	86.6	85.2	85.2
1969.0	55°	495.1	186.6	146.6	116.8	94.5	89.3	83.8	81.4	80.0	79.1
1815.8	57.5°	402.5	153.1	117.7	103.8	87.0	80.5	78.6	75.9	73.5	72.1
1687.9	60°	330.4	120.5	97.3	92.1	79.6	73.5	73.1	69.3	63.3	62.4
1582.2	62.5°	255.0	88.4	81.9	80.0	72.1	67.0	66.1	58.6	49.3	47.5
1432.4	65°	180.1	68.9	66.1	70.3	64.2	59.6	57.2	46.1	36.3	34.9
1198.8	67.5°	126.6	57.7	52.1	61.4	55.8	49.8	48.4	39.1	30.2	29.3
906.5	70°	90.3	47.0	42.8	52.6	44.7	43.7	41.0	32.6	24.7	23.7
448.6	72.5°	63.8	35.8	33.0	45.6	30.7	37.7	33.5	25.1	18.6	17.7
152.6	75°	47.0	25.6	23.3	26.5	22.3	28.4	23.7	16.8	11.6	11.2
68.9	77.5°	34.4	16.3	14.0	13.0	13.0	17.7	13.0	7.0	5.1	4.7
34.9	80°	24.2	7.4	6.5	5.6	5.1	4.2	1.9	0.9	0.5	0.5
12.1	82.5°	14.4	3.3	3.3	2.3	1.4	0.0	0.0	0.0	0.0	0.0
4.7	85°	3.3	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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