

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: P946428

Luminaire Tested: **GALN-SB2A-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946428
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-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 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: 6873 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

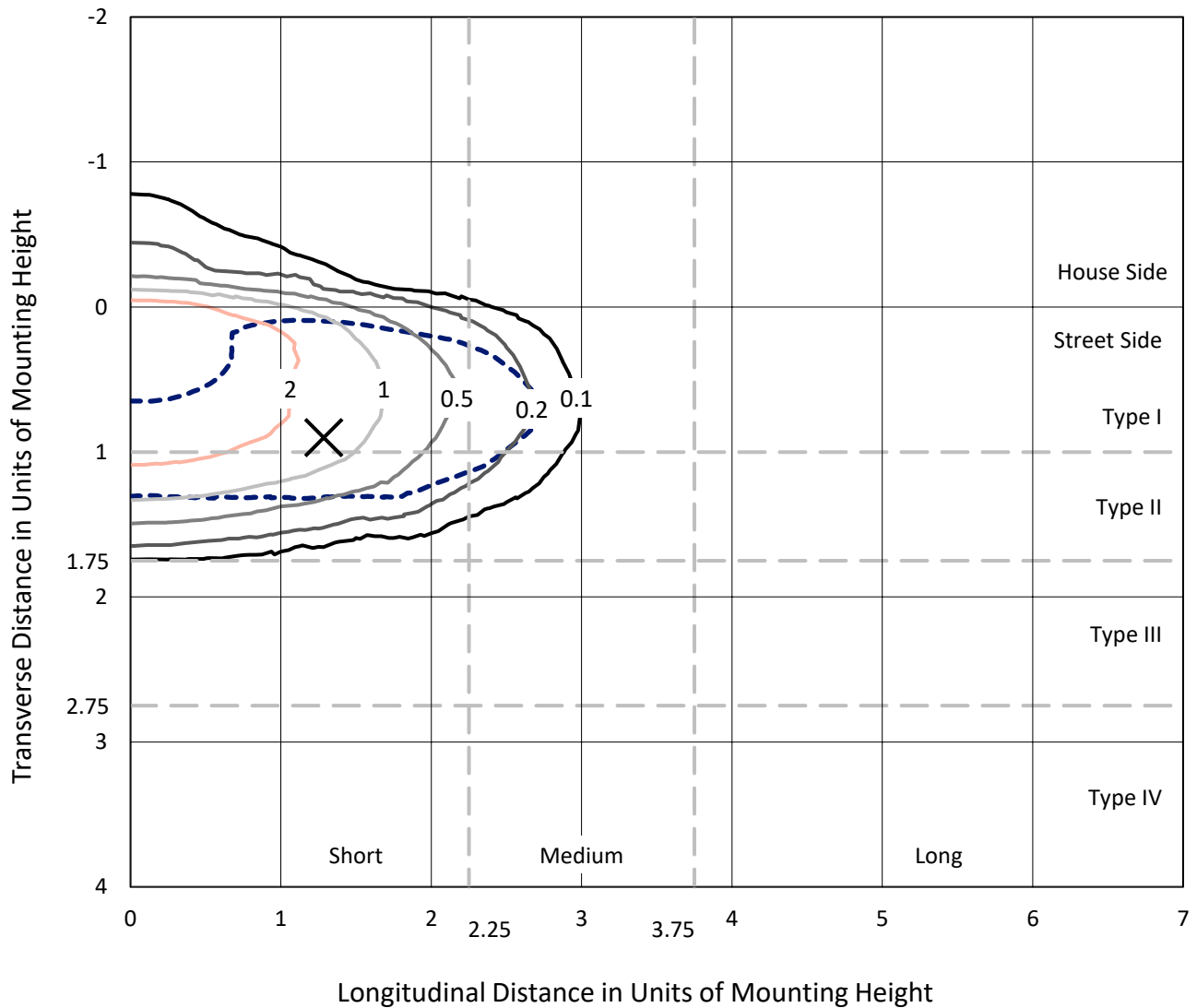
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

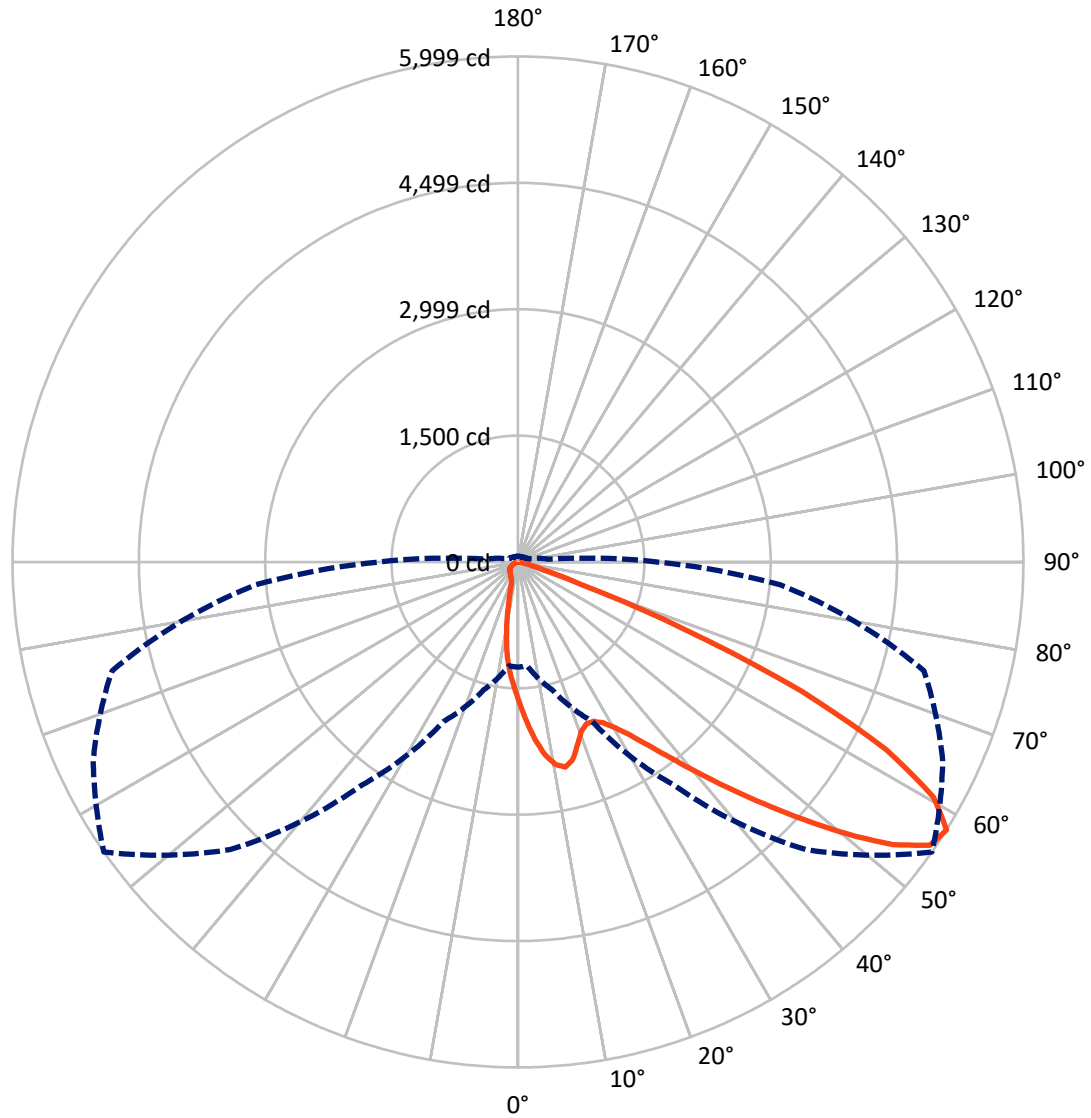
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	536.8	0.0	536.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	6336.2	0.0	6336.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	6873.0	0.0	6873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	2.2
10°-20°	372.2	5.4
20°-30°	595.6	8.7
30°-40°	1008.0	14.7
40°-50°	1655.0	24.1
50°-60°	1819.0	26.5
60°-70°	1043.3	15.2
70°-80°	213.2	3.1
80°-90°	12.6	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°	6873.0	100.0
0°-180°	6873.0	100.0

Coefficient of Utilization

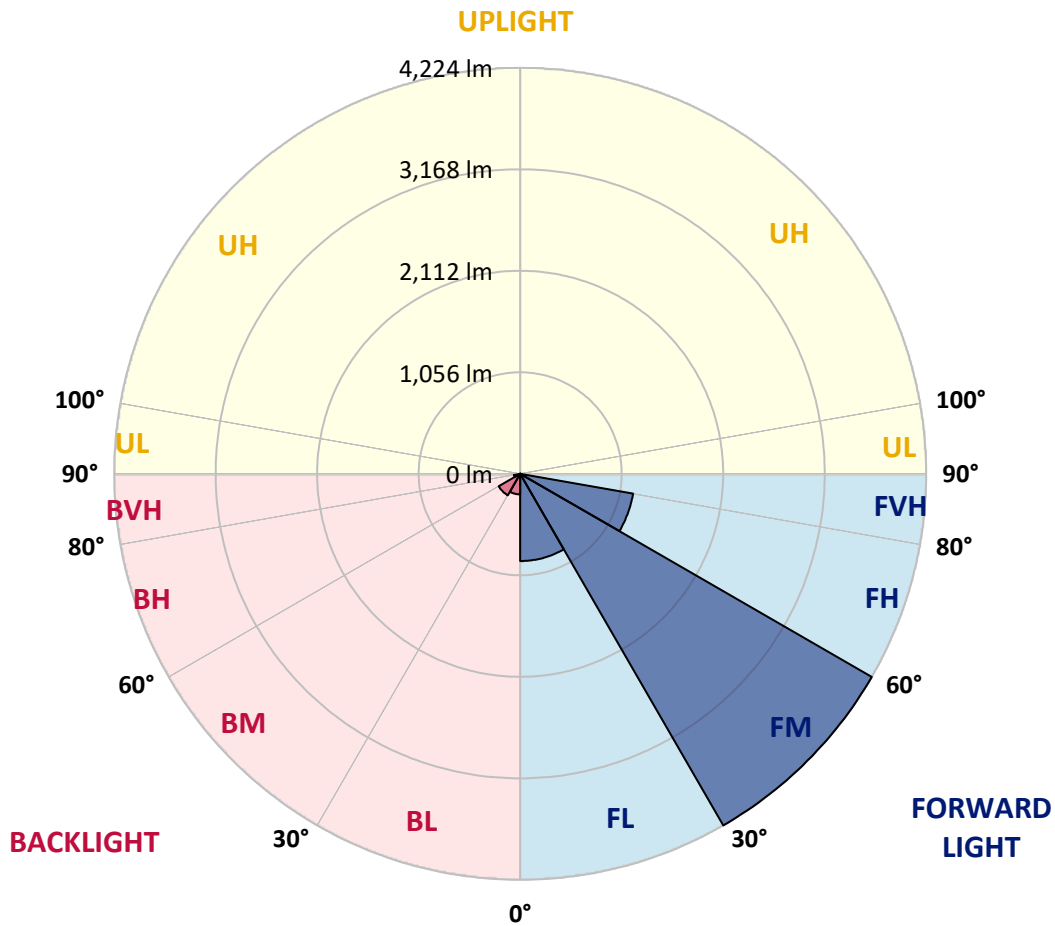


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	907.6	13.2			
FM (30°-60°)	4224.2	61.5			
FH (60°-80°)	1192.7	17.4			G1/1800
FVH (80°-90°)	11.7	0.2			G1/100
BL (0°-30°)	214.3	3.1	B1/500		
BM (30°-60°)	257.8	3.8	B1/1000		
BH (60°-80°)	63.8	0.9	B0/110		G0/110
BVH (80°-90°)	0.8	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°	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2
2.5°	2055.0	2029.2	2025.4	2020.3	1971.1	1934.2	1880.8	1822.4	1756.7	1689.7
5°	2374.1	2353.8	2350.0	2326.3	2270.3	2207.6	2112.7	1992.7	1870.2	1726.2
7.5°	2436.0	2432.2	2449.6	2448.7	2441.1	2391.5	2311.4	2168.6	1984.7	1771.1
10°	2160.1	2169.9	2221.6	2266.9	2389.4	2460.6	2443.2	2325.4	2102.5	1822.4
12.5°	1908.8	1897.4	1934.2	1985.5	2127.9	2339.8	2497.9	2456.4	2237.3	1880.4
15°	1751.2	1746.5	1767.3	1791.0	1899.5	2113.1	2434.3	2562.7	2366.9	1949.1
17.5°	1700.7	1696.9	1703.3	1709.2	1779.6	1944.8	2283.0	2628.0	2491.1	2027.5
20°	1741.8	1736.7	1735.9	1731.2	1760.5	1873.2	2146.1	2632.7	2602.6	2098.7
22.5°	1861.8	1855.8	1835.1	1816.4	1819.0	1883.0	2085.1	2586.0	2686.5	2165.2
25°	2079.2	2069.4	2026.2	1963.5	1923.6	1950.8	2094.4	2524.6	2766.6	2217.3
27.5°	2351.3	2338.5	2283.0	2189.8	2098.7	2065.6	2161.8	2482.2	2833.1	2257.2
30°	2617.8	2601.3	2546.6	2474.2	2341.1	2236.8	2283.5	2500.9	2912.4	2298.7
32.5°	2905.6	2889.9	2817.4	2727.6	2617.4	2477.1	2450.0	2592.0	3009.4	2356.8
35°	3269.6	3245.1	3142.1	3019.6	2902.6	2760.7	2675.5	2749.2	3138.7	2445.3
37.5°	3684.1	3651.1	3540.0	3370.9	3218.4	3059.4	2950.1	2965.4	3328.1	2564.0
40°	4074.9	4044.8	3942.2	3782.9	3591.3	3398.5	3281.9	3248.0	3589.6	2708.5
42.5°	4309.2	4282.1	4238.9	4171.5	4010.0	3813.4	3666.3	3593.0	3899.0	2881.4
45°	4322.4	4298.6	4356.7	4435.1	4403.3	4272.4	4093.1	3958.7	4209.6	3043.8
47.5°	4112.2	4096.1	4272.4	4546.1	4682.6	4737.7	4572.4	4294.0	4466.0	3160.3
50°	3539.2	3533.2	3896.0	4398.7	4789.0	5145.4	5078.0	4605.9	4664.8	3220.5
52.5°	3068.8	3047.1	3258.6	3926.5	4634.3	5359.8	5572.2	4911.9	4803.8	3231.9
55°	2327.5	2308.5	2573.8	3136.6	4135.5	5283.6	5933.7	5227.6	4903.4	3202.7
57.5°	1248.5	1236.7	1571.9	2087.7	3232.8	4825.8	5998.9	5561.6	4987.3	3125.1
60°	486.1	484.0	609.4	1012.9	1964.8	3926.1	5669.6	5762.0	5039.9	3029.8
62.5°	294.1	300.5	320.8	454.7	867.9	2439.0	4910.6	5534.0	5075.0	2942.5
65°	243.3	243.7	246.2	312.3	415.8	1020.5	3696.8	4783.9	4988.2	2786.9
67.5°	208.5	212.3	222.1	247.9	293.3	447.5	2128.3	3705.7	4459.7	2425.0
70°	164.4	169.5	181.8	203.8	226.3	280.1	786.6	2465.7	3407.0	1827.9
72.5°	138.6	138.2	144.5	165.7	179.7	197.1	302.6	1381.6	1980.0	872.6
75°	107.2	111.5	119.5	138.6	147.1	142.8	164.0	504.7	709.4	264.5
77.5°	83.9	87.3	94.5	113.2	121.6	101.3	94.5	180.5	228.0	94.9
80°	37.7	40.7	64.4	83.5	99.2	69.9	51.3	92.4	101.3	43.2
82.5°	6.8	11.4	37.7	44.1	50.9	45.3	26.7	47.9	49.6	17.4
85°	0.4	0.8	13.1	16.1	20.3	14.8	8.1	19.1	16.5	5.9
87.5°	0.0	0.0	0.0	0.4	0.4	2.1	2.5	3.4	2.5	2.1
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°
1656.2	0°	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2
1660.0	2.5°	1629.5	1569.3	1510.9	1463.0	1435.0	1387.5	1356.2	1351.1	1337.9	1349.4
1664.3	5°	1598.2	1490.5	1381.6	1284.1	1204.0	1100.6	1023.5	990.9	962.5	972.2
1675.3	7.5°	1583.3	1413.4	1243.9	1077.3	906.1	740.8	617.9	566.6	527.6	533.1
1687.6	10°	1563.4	1333.3	1067.6	813.3	584.0	420.8	336.1	304.7	287.3	287.8
1705.8	12.5°	1548.2	1237.5	862.9	551.4	355.6	268.7	242.4	234.8	229.7	230.1
1733.4	15°	1540.5	1124.8	660.7	367.4	254.3	227.6	221.2	217.8	214.4	214.0
1763.9	17.5°	1527.8	999.3	483.6	268.3	222.5	213.2	207.7	203.8	199.6	198.8
1790.1	20°	1508.7	856.9	353.5	226.7	208.5	201.3	193.7	188.6	183.5	182.7
1806.7	22.5°	1473.6	706.5	271.7	209.8	198.3	190.3	181.0	175.0	169.9	169.1
1798.6	25°	1408.3	565.4	228.9	199.2	189.4	179.7	169.5	161.5	156.8	156.0
1781.2	27.5°	1325.7	444.1	207.7	189.4	178.0	169.1	157.7	150.0	145.8	144.9
1758.4	30°	1228.2	342.0	195.4	178.4	164.4	156.8	146.6	140.3	137.7	137.7
1742.3	32.5°	1123.1	273.4	190.3	167.4	152.6	144.1	136.0	133.5	132.7	132.2
1751.2	35°	1024.3	237.3	187.7	158.5	142.0	133.9	130.5	131.0	132.7	132.7
1778.7	37.5°	936.6	225.9	186.5	152.1	132.7	125.4	127.6	131.4	129.7	129.7
1827.0	40°	857.4	227.2	185.6	147.5	125.0	120.8	125.0	122.1	117.8	117.4
1885.9	42.5°	796.8	237.8	183.9	143.7	120.4	117.4	115.7	111.0	110.6	111.5
1947.0	45°	752.7	247.1	183.5	142.0	115.3	109.8	107.6	103.0	111.5	113.6
1972.0	47.5°	700.5	247.1	183.5	136.0	106.8	104.7	101.3	96.2	104.7	106.8
1948.2	50°	633.2	231.4	176.3	129.3	100.0	98.7	92.8	86.5	84.8	86.0
1892.7	52.5°	548.0	203.0	158.1	119.9	93.2	90.7	83.5	78.8	77.6	77.6
1793.1	55°	450.9	169.9	133.5	106.4	86.0	81.4	76.3	74.2	72.9	72.0
1653.7	57.5°	366.6	139.4	107.2	94.5	79.3	73.3	71.6	69.1	67.0	65.7
1537.1	60°	300.9	109.8	88.6	83.9	72.5	67.0	66.5	63.1	57.6	56.8
1440.9	62.5°	232.2	80.5	74.6	72.9	65.7	61.0	60.2	53.4	44.9	43.2
1304.5	65°	164.0	62.7	60.2	64.0	58.5	54.2	52.1	42.0	33.1	31.8
1091.7	67.5°	115.3	52.6	47.5	55.9	50.9	45.3	44.1	35.6	27.5	26.7
825.6	70°	82.2	42.8	39.0	47.9	40.7	39.8	37.3	29.7	22.5	21.6
408.5	72.5°	58.1	32.6	30.1	41.5	28.0	34.3	30.5	22.9	17.0	16.1
139.0	75°	42.8	23.3	21.2	24.2	20.3	25.9	21.6	15.3	10.6	10.2
62.7	77.5°	31.4	14.8	12.7	11.9	11.9	16.1	11.9	6.4	4.7	4.2
31.8	80°	22.0	6.8	5.9	5.1	4.7	3.8	1.7	0.8	0.4	0.4
11.0	82.5°	13.1	3.0	3.0	2.1	1.3	0.0	0.0	0.0	0.0	0.0
4.2	85°	3.0	1.3	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
1.7	87.5°	0.4	0.4	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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