

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: P946491

Luminaire Tested: **GALN-SB2A-850-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946491  
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-850-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

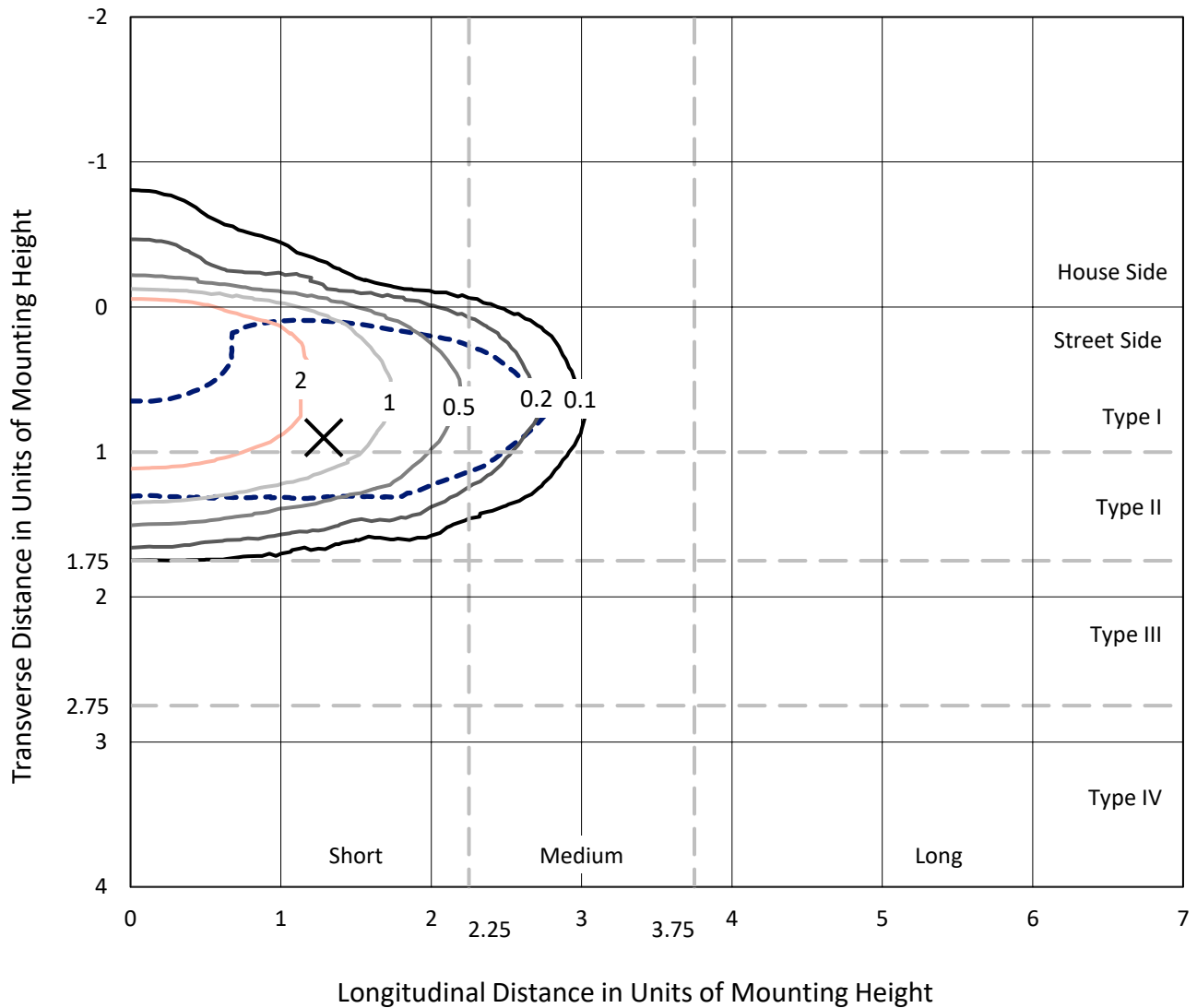
Lumens per Lamp: N/A  
Luminaire Lumens: 7316 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

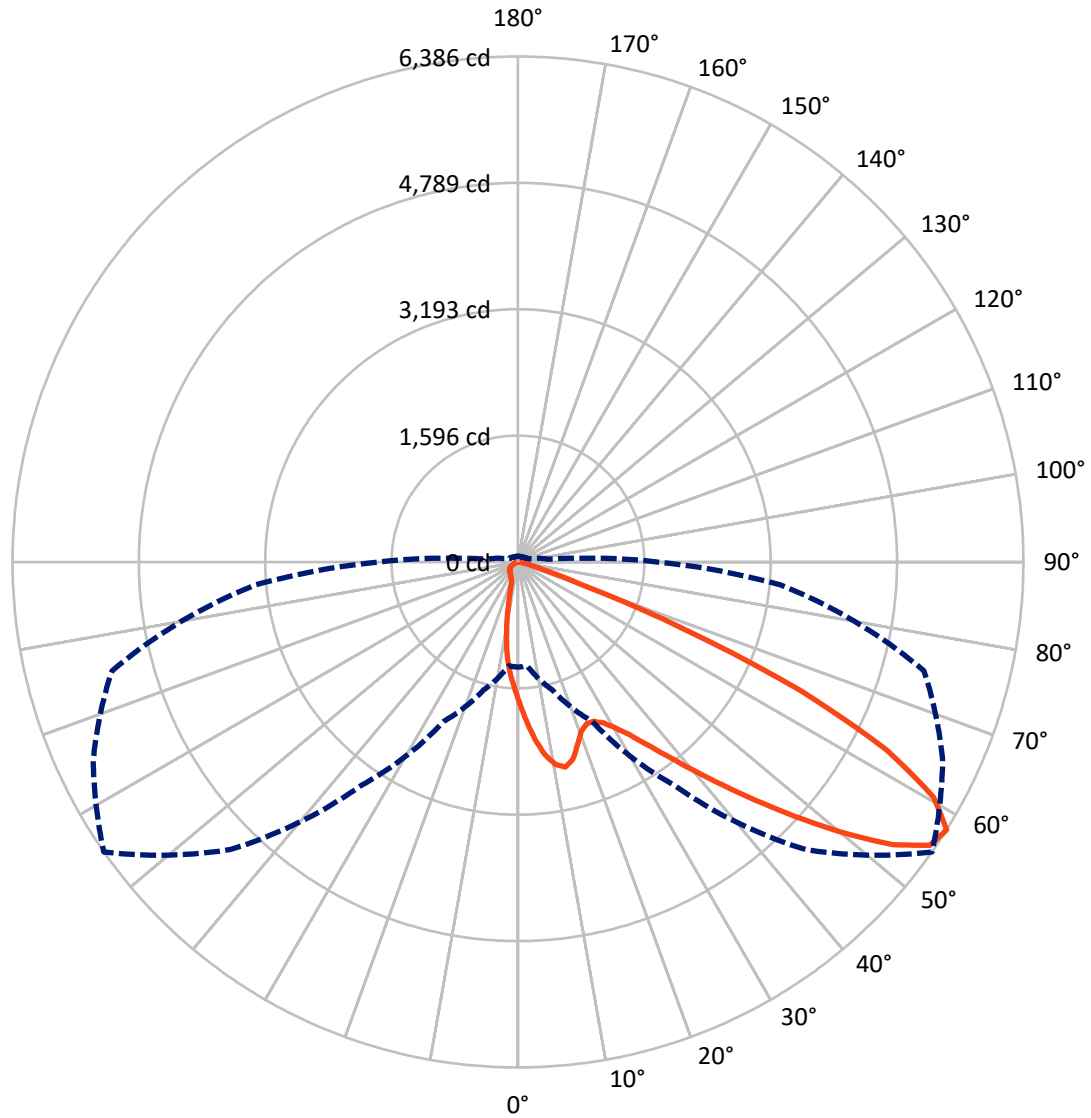
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
<b>House Side</b>	Lumens	571.4	0.0	571.4
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	6744.7	0.0	6744.7
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	7316.0	0.0	7316.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.0	2.2
10°-20°	396.2	5.4
20°-30°	634.0	8.7
30°-40°	1073.0	14.7
40°-50°	1761.7	24.1
50°-60°	1936.2	26.5
60°-70°	1110.6	15.2
70°-80°	226.9	3.1
80°-90°	13.4	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°	7316.0	100.0
0°-180°	7316.0	100.0

**Coefficient of Utilization**



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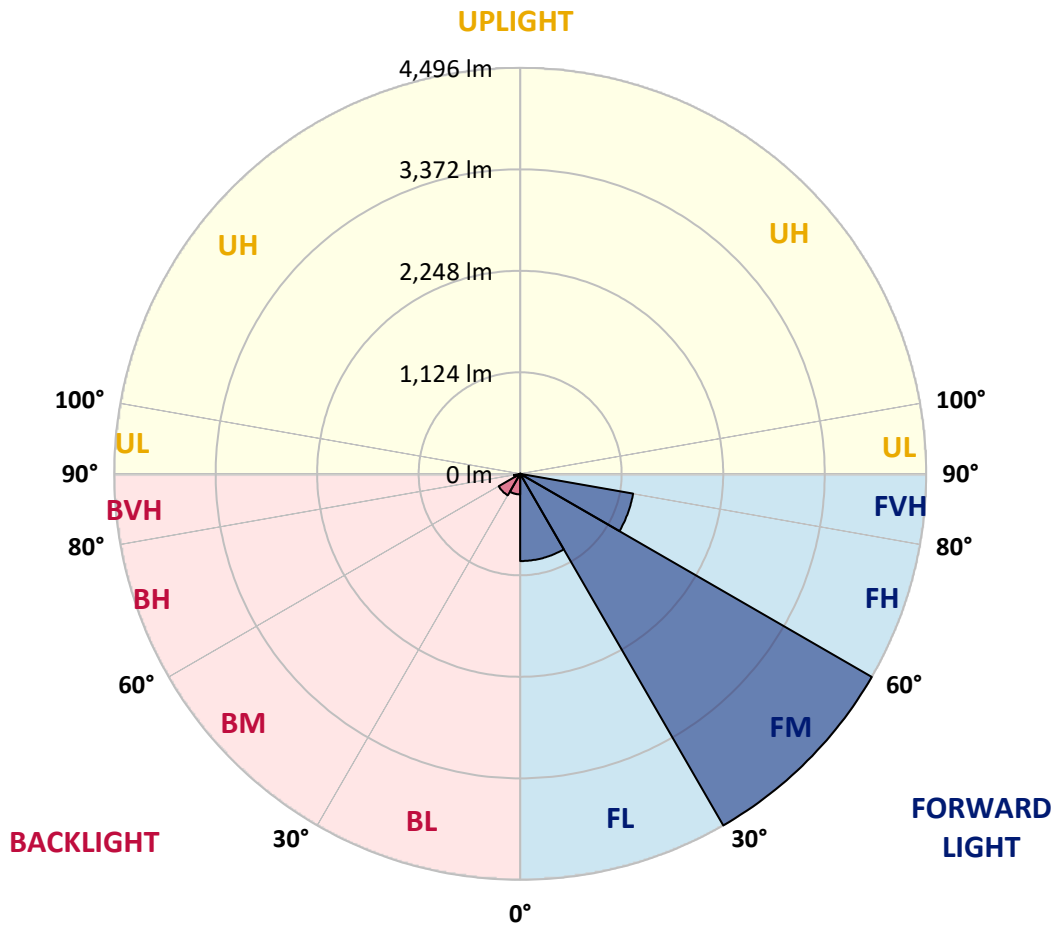
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	966.1	13.2			
FM (30°-60°)	4496.5	61.5			
FH (60°-80°)	1269.6	17.4			G1/1800
FVH (80°-90°)	12.5	0.2			G1/100
BL (0°-30°)	228.1	3.1	B1/500		
BM (30°-60°)	274.4	3.8	B1/1000		
BH (60°-80°)	67.9	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°	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0
2.5°	2187.5	2160.0	2155.9	2150.5	2098.2	2058.9	2002.1	1939.8	1869.9	1798.6
5°	2527.2	2505.5	2501.5	2476.2	2416.6	2349.9	2248.8	2121.2	1990.8	1837.4
7.5°	2593.0	2589.0	2607.5	2606.6	2598.4	2545.7	2460.4	2308.4	2112.6	1885.2
10°	2299.4	2309.7	2364.8	2413.0	2543.4	2619.2	2600.7	2475.3	2238.0	1939.8
12.5°	2031.8	2019.7	2058.9	2113.5	2265.1	2490.6	2658.9	2614.7	2381.5	2001.6
15°	1864.0	1859.1	1881.2	1906.4	2021.9	2249.3	2591.2	2727.9	2519.5	2074.7
17.5°	1810.3	1806.3	1813.0	1819.4	1894.3	2070.2	2430.2	2797.4	2651.7	2158.2
20°	1854.1	1848.7	1847.8	1842.8	1874.0	1993.9	2284.5	2802.4	2770.3	2233.9
22.5°	1981.8	1975.5	1953.3	1933.5	1936.2	2004.3	2219.5	2752.7	2859.6	2304.8
25°	2213.2	2202.8	2156.8	2090.0	2047.6	2076.5	2229.4	2687.3	2944.9	2360.3
27.5°	2502.8	2489.3	2430.2	2330.9	2233.9	2198.8	2301.2	2642.2	3015.7	2402.7
30°	2786.6	2769.0	2710.8	2633.6	2492.0	2381.0	2430.6	2662.1	3100.1	2446.9
32.5°	3092.9	3076.2	2999.0	2903.4	2786.1	2636.8	2607.9	2759.0	3203.4	2508.7
35°	3480.4	3454.2	3344.6	3214.2	3089.7	2938.6	2847.9	2926.4	3341.0	2603.0
37.5°	3921.6	3886.4	3768.2	3588.2	3425.8	3256.6	3140.2	3156.5	3542.6	2729.3
40°	4337.5	4305.5	4196.3	4026.7	3822.8	3617.5	3493.5	3457.4	3821.0	2883.1
42.5°	4587.0	4558.1	4512.1	4440.4	4268.5	4059.2	3902.6	3824.6	4150.3	3067.2
45°	4601.0	4575.7	4637.5	4721.0	4687.1	4547.7	4356.9	4213.9	4481.0	3239.9
47.5°	4377.2	4360.1	4547.7	4839.2	4984.4	5043.1	4867.1	4570.7	4753.9	3364.0
50°	3767.3	3761.0	4147.1	4682.2	5097.7	5477.0	5405.3	4902.8	4965.5	3428.1
52.5°	3266.6	3243.6	3468.7	4179.6	4933.0	5705.3	5931.3	5228.5	5113.4	3440.2
55°	2477.5	2457.2	2739.6	3338.7	4402.0	5624.1	6316.1	5564.6	5219.5	3409.1
57.5°	1329.0	1316.4	1673.2	2222.2	3441.1	5136.9	6385.6	5920.0	5308.8	3326.6
60°	517.4	515.2	648.7	1078.2	2091.4	4179.2	6035.1	6133.4	5364.7	3225.1
62.5°	313.1	319.8	341.5	484.1	923.9	2596.2	5227.1	5890.7	5402.2	3132.1
65°	258.9	259.4	262.1	332.5	442.5	1086.3	3935.1	5092.2	5309.7	2966.6
67.5°	222.0	226.0	236.4	263.9	312.2	476.4	2265.5	3944.6	4747.1	2581.3
70°	175.0	180.4	193.5	217.0	240.9	298.2	837.3	2624.6	3626.6	1945.7
72.5°	147.5	147.1	153.8	176.4	191.3	209.8	322.1	1470.7	2107.6	928.9
75°	114.1	118.6	127.2	147.5	156.5	152.0	174.6	537.3	755.2	281.5
77.5°	89.3	92.9	100.6	120.4	129.5	107.8	100.6	192.2	242.7	101.1
80°	40.1	43.3	68.6	88.9	105.6	74.4	54.6	98.3	107.8	46.0
82.5°	7.2	12.2	40.1	46.9	54.1	48.3	28.4	51.0	52.8	18.5
85°	0.5	0.9	14.0	17.1	21.7	15.8	8.6	20.3	17.6	6.3
87.5°	0.0	0.0	0.0	0.5	0.5	2.3	2.7	3.6	2.7	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°
1763.0	0°	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0	1763.0
1767.0	2.5°	1734.6	1670.5	1608.2	1557.3	1527.5	1477.0	1443.6	1438.2	1424.2	1436.4
1771.5	5°	1701.2	1586.6	1470.7	1366.9	1281.6	1171.6	1089.5	1054.7	1024.5	1034.9
1783.3	7.5°	1685.4	1504.5	1324.0	1146.7	964.5	788.6	657.7	603.1	561.6	567.5
1796.4	10°	1664.2	1419.2	1136.4	865.7	621.6	448.0	357.7	324.4	305.9	306.3
1815.8	12.5°	1647.9	1317.3	918.5	586.9	378.5	286.0	258.0	249.9	244.5	245.0
1845.1	15°	1639.8	1197.3	703.3	391.1	270.7	242.3	235.5	231.9	228.3	227.8
1877.6	17.5°	1626.3	1063.7	514.7	285.6	236.8	226.9	221.0	217.0	212.5	211.6
1905.5	20°	1606.0	912.2	376.2	241.3	222.0	214.3	206.2	200.7	195.3	194.4
1923.1	22.5°	1568.5	752.0	289.2	223.3	211.1	202.6	192.6	186.3	180.9	180.0
1914.6	25°	1499.1	601.8	243.6	212.0	201.7	191.3	180.4	171.9	166.9	166.0
1896.1	27.5°	1411.1	472.8	221.0	201.7	189.5	180.0	167.8	159.7	155.2	154.3
1871.7	30°	1307.3	364.1	208.0	189.9	175.0	166.9	156.1	149.3	146.6	146.6
1854.6	32.5°	1195.5	291.0	202.6	178.2	162.4	153.4	144.8	142.1	141.2	140.7
1864.0	35°	1090.4	252.6	199.8	168.7	151.1	142.6	138.9	139.4	141.2	141.2
1893.3	37.5°	997.0	240.4	198.5	162.0	141.2	133.5	135.8	139.8	138.0	138.0
1944.8	40°	912.6	241.8	197.6	157.0	133.1	128.6	133.1	129.9	125.4	125.0
2007.5	42.5°	848.1	253.1	195.8	152.9	128.1	125.0	123.2	118.2	117.7	118.6
2072.4	45°	801.2	263.0	195.3	151.1	122.7	116.8	114.6	109.6	118.6	120.9
2099.1	47.5°	745.7	263.0	195.3	144.8	113.7	111.4	107.8	102.4	111.4	113.7
2073.8	50°	674.0	246.3	187.7	137.6	106.5	105.1	98.8	92.0	90.2	91.6
2014.7	52.5°	583.3	216.1	168.3	127.7	99.2	96.5	88.9	83.9	82.6	82.6
1908.7	55°	480.0	180.9	142.1	113.2	91.6	86.6	81.2	78.9	77.6	76.7
1760.3	57.5°	390.2	148.4	114.1	100.6	84.4	78.0	76.2	73.5	71.3	69.9
1636.2	60°	320.3	116.8	94.3	89.3	77.1	71.3	70.8	67.2	61.4	60.5
1533.8	62.5°	247.2	85.7	79.4	77.6	69.9	65.0	64.1	56.8	47.8	46.0
1388.5	65°	174.6	66.8	64.1	68.1	62.3	57.7	55.5	44.7	35.2	33.8
1162.1	67.5°	122.7	55.9	50.5	59.5	54.1	48.3	46.9	37.9	29.3	28.4
878.8	70°	87.5	45.6	41.5	51.0	43.3	42.4	39.7	31.6	23.9	23.0
434.9	72.5°	61.8	34.7	32.0	44.2	29.8	36.5	32.5	24.4	18.0	17.1
148.0	75°	45.6	24.8	22.6	25.7	21.7	27.5	23.0	16.2	11.3	10.8
66.8	77.5°	33.4	15.8	13.5	12.6	12.6	17.1	12.6	6.8	5.0	4.5
33.8	80°	23.5	7.2	6.3	5.4	5.0	4.1	1.8	0.9	0.5	0.5
11.7	82.5°	14.0	3.2	3.2	2.3	1.4	0.0	0.0	0.0	0.0	0.0
4.5	85°	3.2	1.4	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
1.8	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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