

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: P949368

Luminaire Tested: **GALN-SB4A-927-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949368  
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-SB4A-927-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

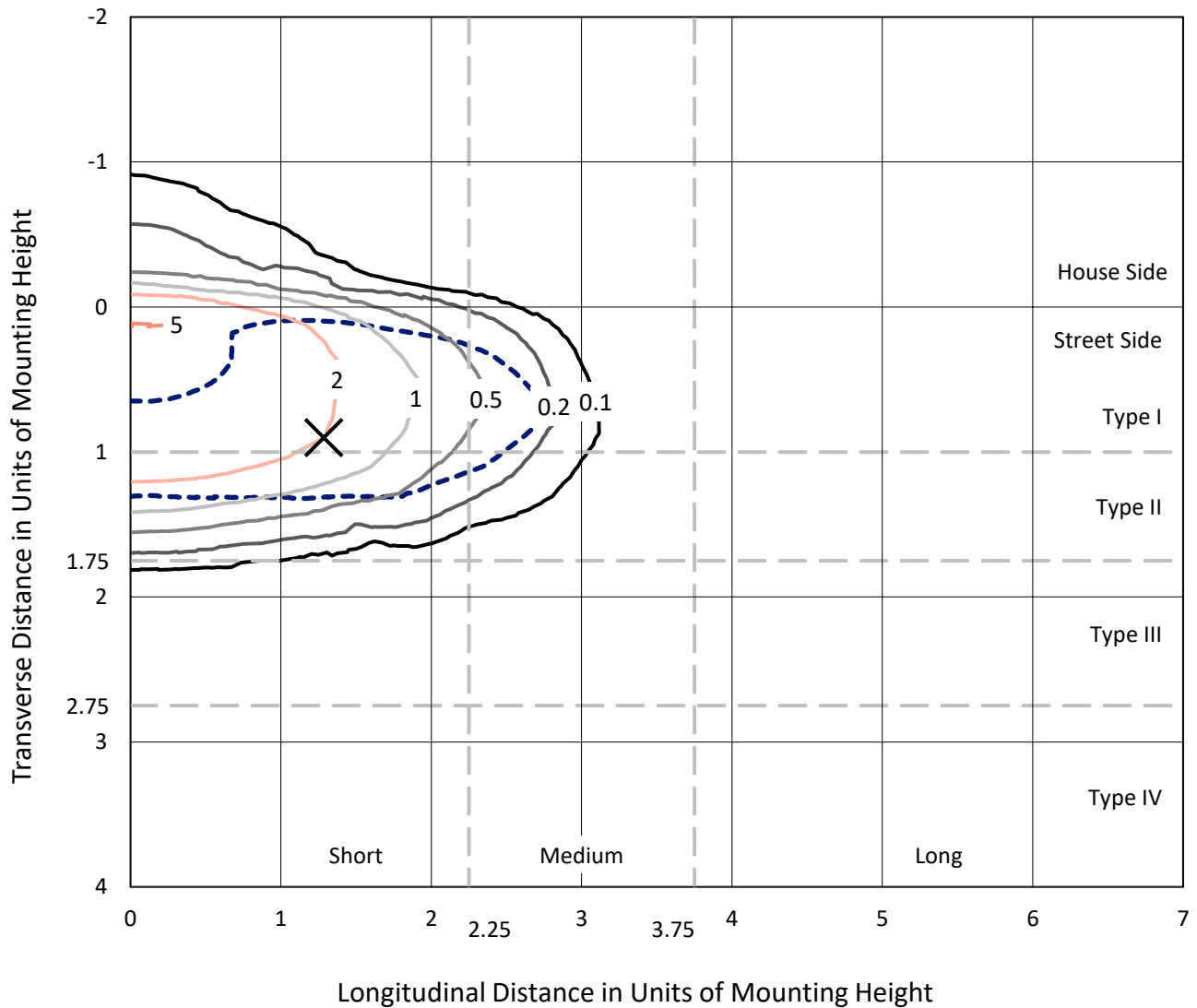
Lumens per Lamp: N/A  
Luminaire Lumens: 9330 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

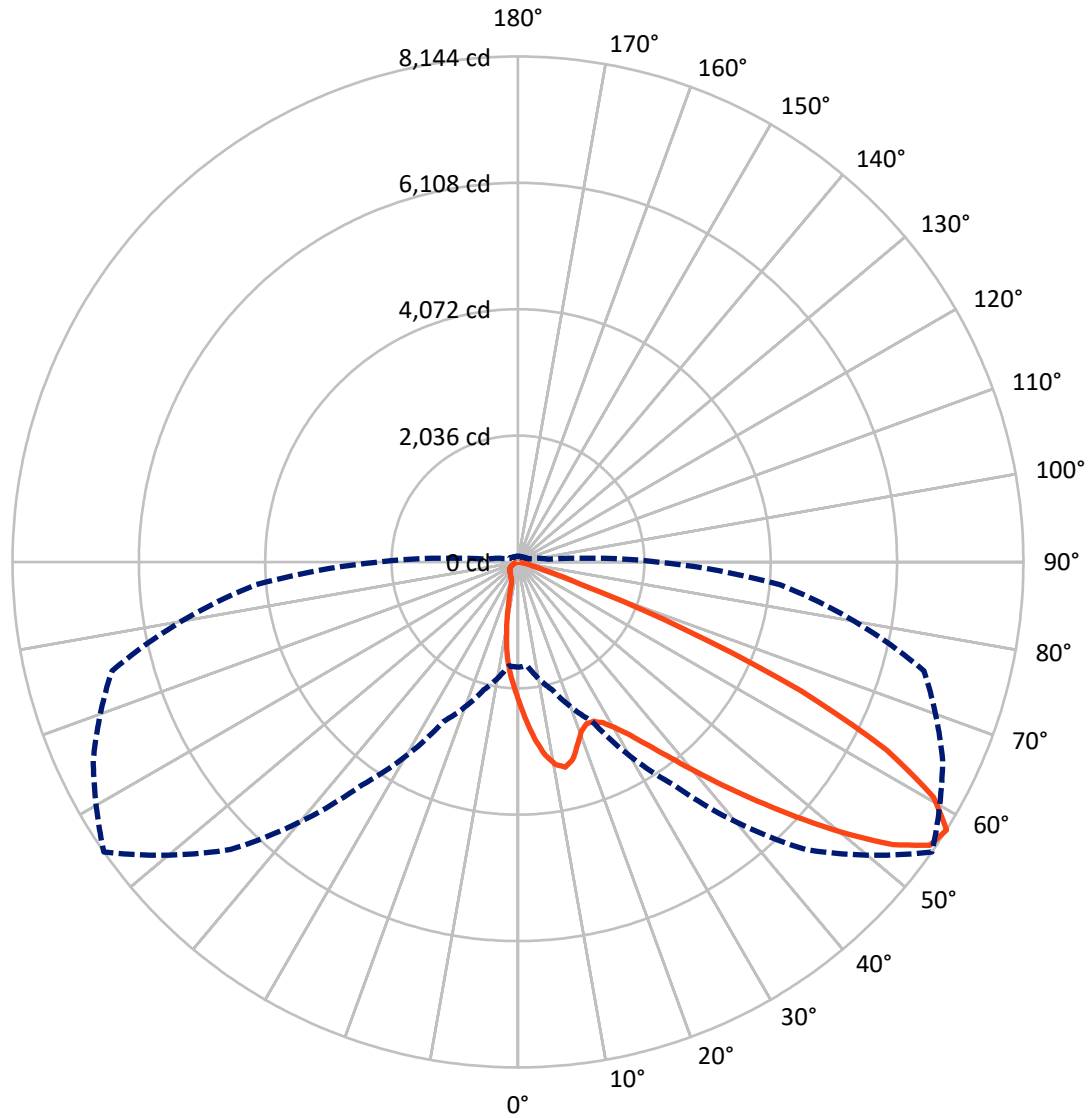
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	728.6	0.0	728.6
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	8601.4	0.0	8601.4
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	9330.0	0.0	9330.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.2	2.2
10°-20°	505.3	5.4
20°-30°	808.5	8.7
30°-40°	1368.4	14.7
40°-50°	2246.6	24.1
50°-60°	2469.2	26.5
60°-70°	1416.3	15.2
70°-80°	289.4	3.1
80°-90°	17.1	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°	9330.0	100.0
0°-180°	9330.0	100.0

**Coefficient of Utilization**



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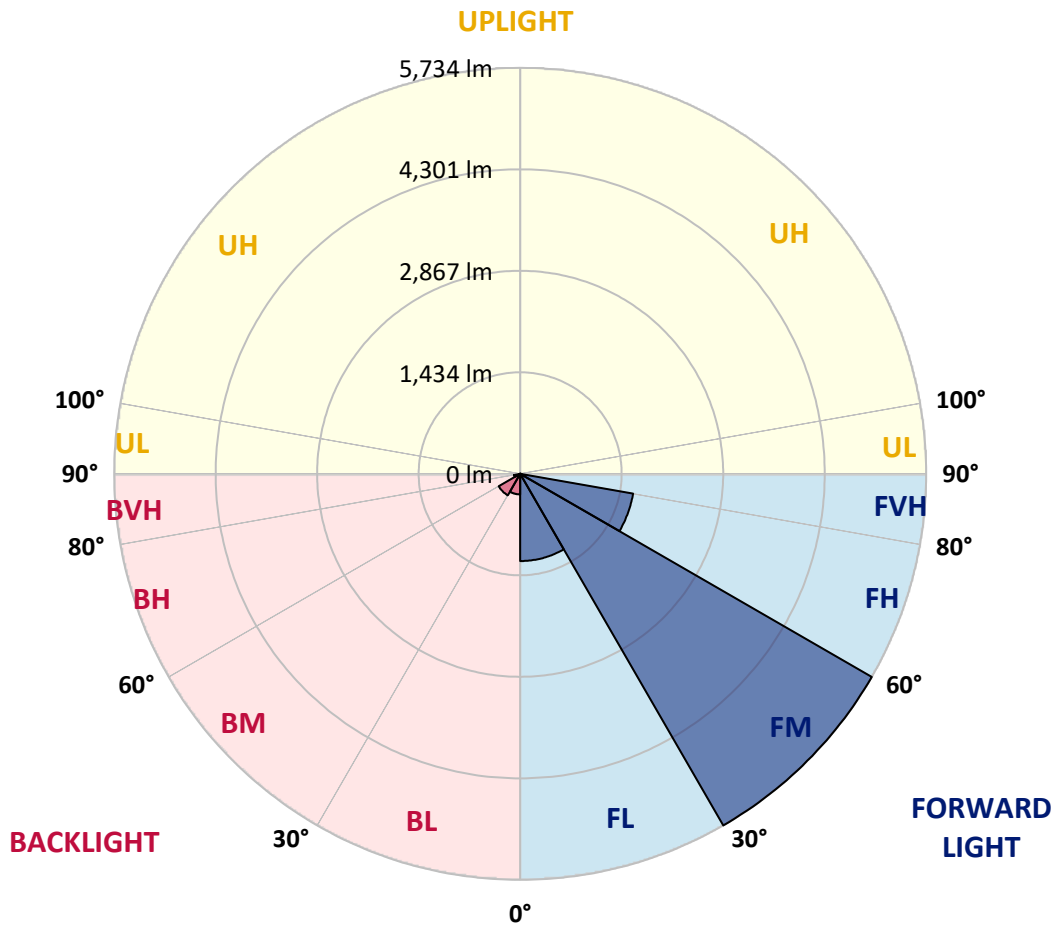
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1232.1	13.2			
FM (30°-60°)	5734.3	61.5			
FH (60°-80°)	1619.1	17.4			G1/1800
FVH (80°-90°)	15.9	0.2			G1/100
BL (0°-30°)	290.9	3.1	B1/500		
BM (30°-60°)	349.9	3.8	B1/1000		
BH (60°-80°)	86.7	0.9	B0/110		G0/110
BVH (80°-90°)	1.2	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°	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3
2.5°	2789.7	2754.6	2749.4	2742.5	2675.8	2625.7	2553.2	2473.8	2384.6	2293.7
5°	3222.9	3195.3	3190.1	3157.9	3081.9	2996.8	2867.9	2705.1	2538.8	2343.2
7.5°	3306.9	3301.7	3325.3	3324.1	3313.8	3246.5	3137.7	2943.8	2694.2	2404.2
10°	2932.3	2945.6	3015.8	3077.3	3243.6	3340.2	3316.6	3156.7	2854.1	2473.8
12.5°	2591.2	2575.6	2625.7	2695.3	2888.6	3176.3	3390.9	3334.5	3037.0	2552.6
15°	2377.2	2370.8	2399.0	2431.2	2578.5	2868.5	3304.6	3478.9	3213.1	2645.8
17.5°	2308.7	2303.5	2312.2	2320.2	2415.7	2640.1	3099.2	3567.5	3381.7	2752.3
20°	2364.5	2357.6	2356.5	2350.1	2389.8	2542.9	2913.4	3573.8	3533.0	2848.9
22.5°	2527.3	2519.3	2491.1	2465.8	2469.2	2556.1	2830.5	3510.5	3646.9	2939.2
25°	2822.5	2809.2	2750.5	2665.4	2611.3	2648.1	2843.2	3427.1	3755.6	3010.0
27.5°	3191.8	3174.5	3099.2	2972.6	2848.9	2804.0	2934.6	3369.6	3845.9	3064.1
30°	3553.7	3531.2	3457.0	3358.6	3178.0	3036.5	3099.8	3394.9	3953.5	3120.5
32.5°	3944.3	3923.0	3824.6	3702.7	3553.1	3362.7	3325.9	3518.6	4085.3	3199.3
35°	4438.5	4405.1	4265.3	4099.1	3940.3	3747.6	3631.9	3732.0	4260.7	3319.5
37.5°	5001.1	4956.3	4805.5	4576.0	4368.9	4153.1	4004.7	4025.4	4517.9	3480.6
40°	5531.6	5490.7	5351.5	5135.2	4875.2	4613.4	4455.2	4409.2	4872.9	3676.8
42.5°	5849.7	5812.9	5754.2	5662.7	5443.6	5176.6	4977.0	4877.5	5292.8	3911.5
45°	5867.6	5835.3	5914.2	6020.6	5977.4	5799.7	5556.3	5373.9	5714.5	4131.9
47.5°	5582.2	5560.3	5799.7	6171.3	6356.6	6431.4	6207.0	5829.0	6062.6	4290.1
50°	4804.4	4796.3	5288.8	5971.1	6501.0	6984.8	6893.3	6252.4	6332.4	4371.8
52.5°	4165.8	4136.5	4423.5	5330.2	6291.0	7275.9	7564.1	6667.8	6521.1	4387.3
55°	3159.6	3133.7	3493.8	4257.8	5613.8	7172.4	8054.9	7096.4	6656.3	4347.6
57.5°	1694.9	1678.7	2133.8	2834.0	4388.4	6551.0	8143.5	7549.8	6770.2	4242.3
60°	659.9	657.0	827.3	1375.0	2667.1	5329.6	7696.5	7821.9	6841.6	4112.9
62.5°	399.3	407.9	435.5	617.3	1178.2	3310.9	6666.1	7512.4	6889.3	3994.4
65°	330.2	330.8	334.3	424.0	564.4	1385.3	5018.4	6494.1	6771.4	3783.2
67.5°	283.1	288.2	301.5	336.6	398.1	607.5	2889.2	5030.5	6054.0	3291.9
70°	223.2	230.1	246.8	276.7	307.2	380.3	1067.8	3347.1	4624.9	2481.3
72.5°	188.1	187.6	196.2	224.9	243.9	267.5	410.8	1875.5	2687.8	1184.6
75°	145.6	151.3	162.2	188.1	199.6	193.9	222.6	685.2	963.1	359.0
77.5°	113.9	118.5	128.3	153.6	165.1	137.5	128.3	245.1	309.5	128.9
80°	51.2	55.2	87.4	113.3	134.6	94.9	69.6	125.4	137.5	58.7
82.5°	9.2	15.5	51.2	59.8	69.0	61.6	36.2	65.0	67.3	23.6
85°	0.6	1.2	17.8	21.9	27.6	20.1	10.9	25.9	22.4	8.1
87.5°	0.0	0.0	0.0	0.6	0.6	2.9	3.5	4.6	3.5	2.9
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°
2248.3	0°	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3
2253.5	2.5°	2212.1	2130.4	2051.0	1986.0	1948.0	1883.6	1841.0	1834.1	1816.2	1831.8
2259.2	5°	2169.5	2023.4	1875.5	1743.2	1634.4	1494.1	1389.4	1345.1	1306.5	1319.8
2274.2	7.5°	2149.3	1918.6	1688.5	1462.4	1230.0	1005.6	838.8	769.2	716.3	723.7
2290.9	10°	2122.3	1809.9	1449.2	1104.0	792.8	571.3	456.2	413.6	390.1	390.6
2315.6	12.5°	2101.6	1679.9	1171.3	748.5	482.7	364.7	329.1	318.7	311.8	312.4
2353.0	15°	2091.2	1526.9	896.9	498.8	345.2	308.9	300.3	295.7	291.1	290.5
2394.4	17.5°	2074.0	1356.6	656.4	364.2	302.0	289.4	281.9	276.7	271.0	269.8
2430.1	20°	2048.1	1163.3	479.8	307.8	283.1	273.3	262.9	256.0	249.1	248.0
2452.5	22.5°	2000.3	959.0	368.8	284.8	269.2	258.3	245.7	237.6	230.7	229.5
2441.6	25°	1911.7	767.5	310.7	270.4	257.2	243.9	230.1	219.2	212.9	211.7
2418.0	27.5°	1799.6	602.9	281.9	257.2	241.6	229.5	214.0	203.7	197.9	196.8
2386.9	30°	1667.2	464.3	265.2	242.2	223.2	212.9	199.1	190.4	187.0	187.0
2365.1	32.5°	1524.6	371.1	258.3	227.2	207.1	195.6	184.7	181.2	180.1	179.5
2377.2	35°	1390.5	322.2	254.9	215.2	192.7	181.8	177.2	177.8	180.1	180.1
2414.6	37.5°	1271.4	306.6	253.1	206.5	180.1	170.3	173.2	178.3	176.0	176.0
2480.1	40°	1163.8	308.4	252.0	200.2	169.7	164.0	169.7	165.7	159.9	159.4
2560.1	42.5°	1081.6	322.7	249.7	195.0	163.4	159.4	157.1	150.7	150.2	151.3
2643.0	45°	1021.7	335.4	249.1	192.7	156.5	149.0	146.1	139.8	151.3	154.2
2676.9	47.5°	951.0	335.4	249.1	184.7	145.0	142.1	137.5	130.6	142.1	145.0
2644.7	50°	859.5	314.1	239.3	175.5	135.8	134.0	126.0	117.4	115.1	116.8
2569.3	52.5°	743.9	275.6	214.6	162.8	126.6	123.1	113.3	107.0	105.3	105.3
2434.1	55°	612.1	230.7	181.2	144.4	116.8	110.5	103.6	100.7	99.0	97.8
2244.8	57.5°	497.6	189.3	145.6	128.3	107.6	99.5	97.2	93.8	90.9	89.2
2086.6	60°	408.5	149.0	120.2	113.9	98.4	90.9	90.3	85.7	78.2	77.1
1956.0	62.5°	315.3	109.3	101.3	99.0	89.2	82.8	81.7	72.5	61.0	58.7
1770.8	65°	222.6	85.1	81.7	86.9	79.4	73.6	70.8	57.0	44.9	43.1
1482.0	67.5°	156.5	71.3	64.4	75.9	69.0	61.6	59.8	48.3	37.4	36.2
1120.7	70°	111.6	58.1	52.9	65.0	55.2	54.1	50.6	40.3	30.5	29.3
554.6	72.5°	78.8	44.3	40.8	56.4	38.0	46.6	41.4	31.1	23.0	21.9
188.7	75°	58.1	31.6	28.8	32.8	27.6	35.1	29.3	20.7	14.4	13.8
85.1	77.5°	42.6	20.1	17.3	16.1	16.1	21.9	16.1	8.6	6.3	5.8
43.1	80°	29.9	9.2	8.1	6.9	6.3	5.2	2.3	1.2	0.6	0.6
15.0	82.5°	17.8	4.0	4.0	2.9	1.7	0.0	0.0	0.0	0.0	0.0
5.8	85°	4.0	1.7	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
2.3	87.5°	0.6	0.6	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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