

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: P955143

Luminaire Tested: **GALN-SB8A-940-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955143  
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-SB8A-940-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

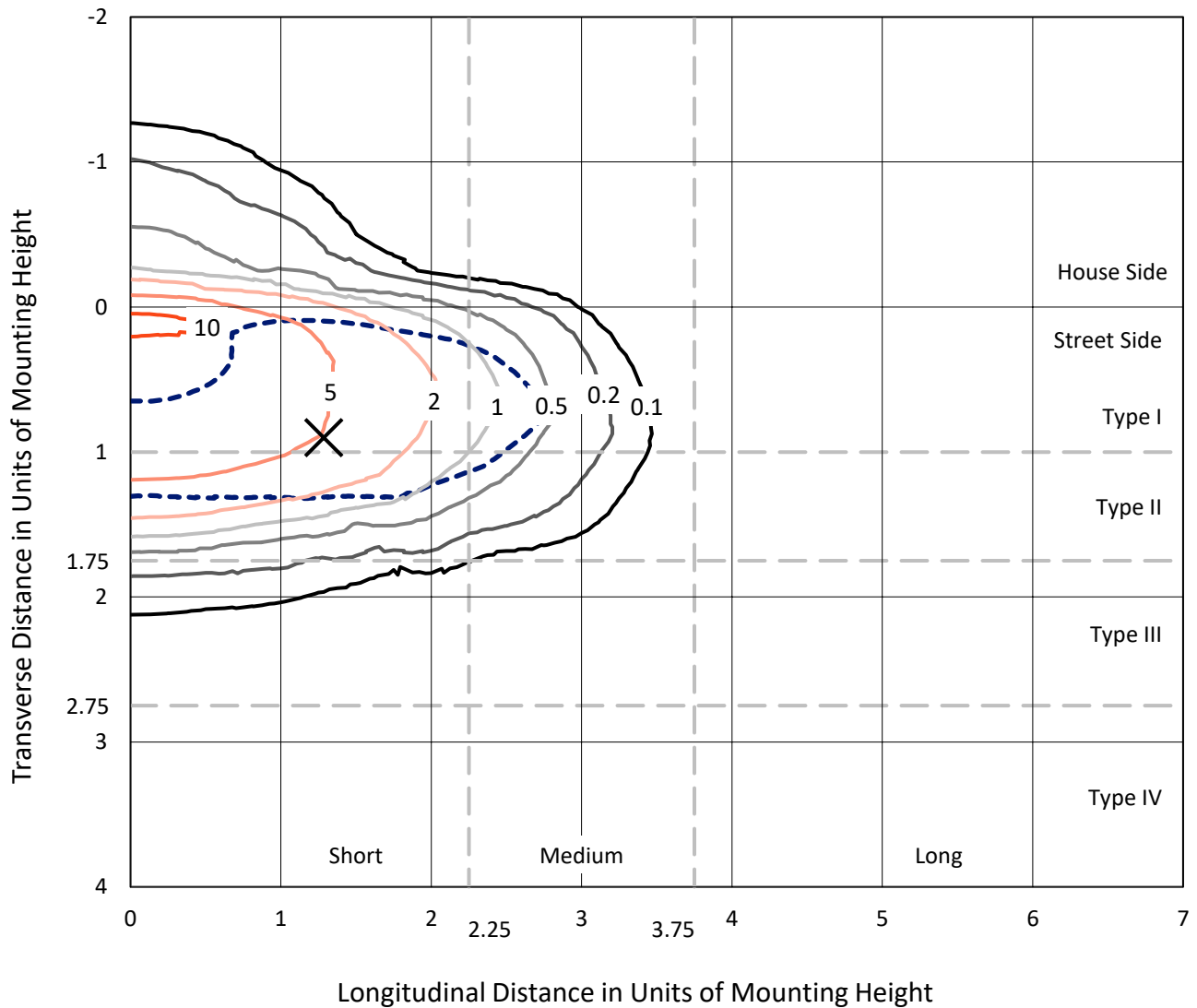
Lumens per Lamp: N/A  
Luminaire Lumens: 22411 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

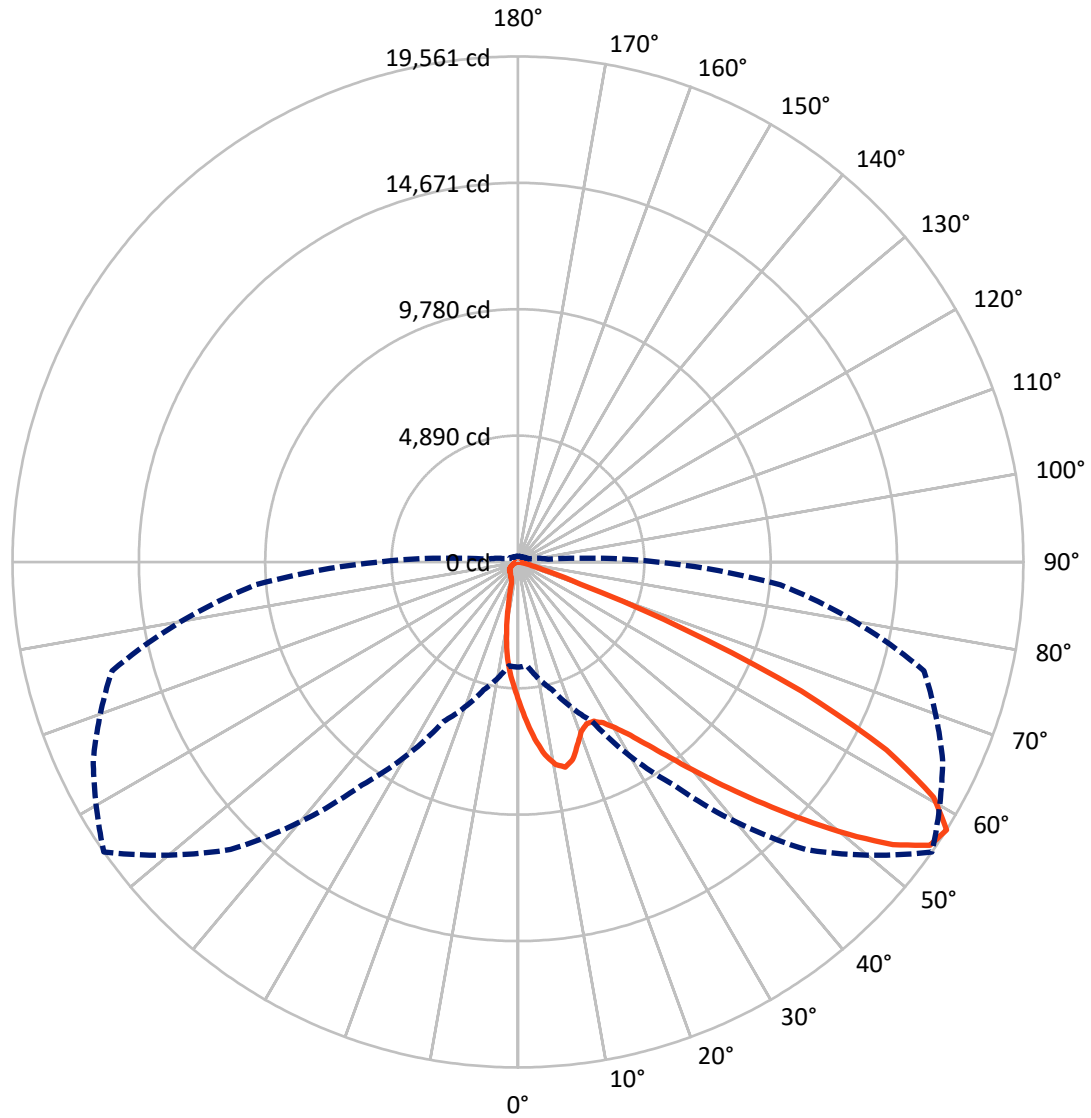
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	1750.2	0.0	1750.2
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	20660.8	0.0	20660.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	22411.0	0.0	22411.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.5	2.2
10°-20°	1213.8	5.4
20°-30°	1942.0	8.7
30°-40°	3286.9	14.7
40°-50°	5396.5	24.1
50°-60°	5931.1	26.5
60°-70°	3402.1	15.2
70°-80°	695.1	3.1
80°-90°	41.0	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°	22411.0	100.0
0°-180°	22411.0	100.0

**Coefficient of Utilization**



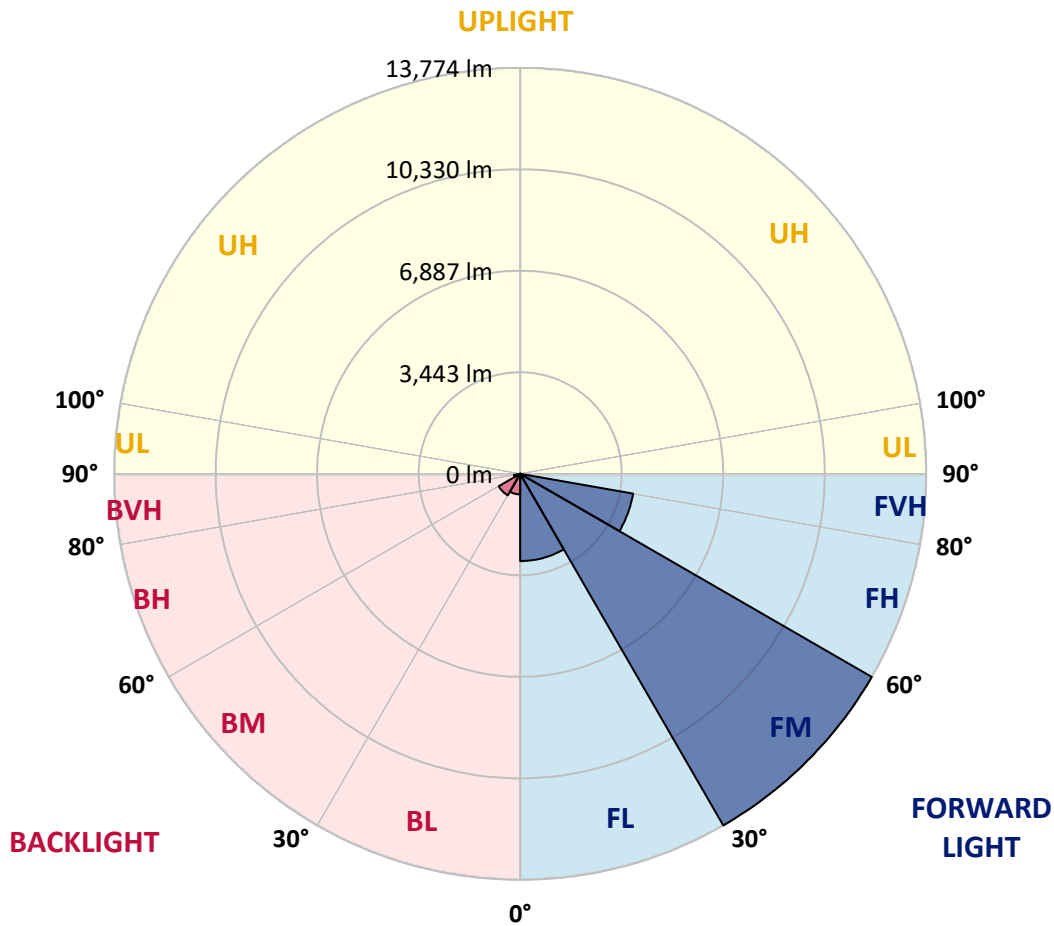
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2959.5	13.2			
FM (30°-60°)	13774.0	61.5			
FH (60°-80°)	3889.1	17.4			G2/5000
FVH (80°-90°)	38.2	0.2			G1/100
BL (0°-30°)	698.7	3.1	B2/1000		
BM (30°-60°)	840.6	3.8	B1/1000		
BH (60°-80°)	208.2	0.9	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5400.5	5400.5	5400.5	5400.5	5400.5	5400.5	5400.5	5400.5	5400.5	5400.5
2.5°	6700.9	6616.6	6604.1	6587.6	6427.3	6307.0	6132.9	5942.2	5728.0	5509.7
5°	7741.5	7675.1	7662.7	7585.3	7402.9	7198.4	6888.8	6497.7	6098.4	5628.5
7.5°	7943.2	7930.8	7987.4	7984.7	7959.8	7798.1	7536.9	7071.2	6471.5	5775.0
10°	7043.6	7075.4	7244.0	7391.8	7791.2	8023.4	7966.7	7582.5	6855.6	5942.2
12.5°	6224.1	6186.8	6307.0	6474.2	6938.6	7629.5	8145.0	8009.5	7295.1	6131.5
15°	5710.0	5694.8	5762.6	5839.9	6193.7	6890.2	7937.7	8356.4	7718.0	6355.4
17.5°	5545.6	5533.2	5553.9	5573.2	5802.6	6341.6	7444.3	8569.2	8122.9	6611.1
20°	5679.6	5663.1	5660.3	5645.1	5740.4	6108.0	6998.0	8584.4	8486.3	6843.2
22.5°	6070.7	6051.4	5983.7	5922.9	5931.2	6139.8	6799.0	8432.4	8759.9	7060.2
25°	6779.6	6747.9	6606.9	6402.4	6272.5	6360.9	6829.4	8232.0	9021.1	7230.1
27.5°	7666.8	7625.4	7444.3	7140.3	6843.2	6735.4	7049.1	8093.8	9238.1	7360.0
30°	8536.0	8482.2	8303.9	8067.6	7633.7	7293.7	7445.7	8154.6	9496.5	7495.5
32.5°	9474.4	9423.2	9186.9	8894.0	8534.7	8077.3	7988.8	8451.8	9812.9	7684.8
35°	10661.4	10581.3	10245.5	9846.1	9464.7	9001.8	8724.0	8964.4	10234.4	7973.6
37.5°	12012.9	11905.1	11543.1	10991.7	10494.2	9976.0	9619.5	9669.2	10852.1	8360.5
40°	13287.1	13188.9	12854.5	12334.9	11710.3	11081.5	10701.5	10590.9	11704.8	8831.8
42.5°	14051.2	13962.8	13821.8	13602.1	13075.6	12434.4	11954.9	11715.8	12713.6	9395.6
45°	14094.1	14016.7	14206.0	14461.7	14358.0	13931.0	13346.5	12908.4	13726.5	9924.9
47.5°	13408.7	13356.1	13931.0	14823.7	15268.7	15448.4	14909.4	14001.5	14562.6	10304.9
50°	11540.3	11521.0	12703.9	14342.8	15615.6	16777.8	16558.0	15018.6	15210.7	10501.1
52.5°	10006.4	9935.9	10625.5	12803.4	15111.2	17477.0	18169.3	16016.3	15663.9	10538.4
55°	7589.4	7527.3	8392.3	10227.5	13484.7	17228.3	19348.1	17045.8	15988.7	10443.1
57.5°	4071.1	4032.4	5125.5	6807.3	10541.2	15735.8	19560.9	18134.8	16262.3	10190.2
60°	1585.0	1578.1	1987.2	3302.8	6406.5	12802.0	18487.2	18788.4	16433.7	9879.3
62.5°	959.0	979.8	1046.1	1482.8	2830.1	7952.9	16012.2	18045.0	16548.4	9594.6
65°	793.2	794.6	802.9	1018.5	1355.7	3327.6	12054.4	15599.0	16265.1	9087.4
67.5°	679.9	692.3	724.1	808.4	956.3	1459.3	6939.9	12083.4	14541.8	7907.3
70°	536.2	552.8	592.8	664.7	737.9	913.4	2564.8	8039.9	11109.2	5960.2
72.5°	451.9	450.5	471.2	540.3	585.9	642.6	986.7	4505.0	6456.3	2845.3
75°	349.6	363.4	389.7	451.9	479.5	465.7	534.8	1645.9	2313.3	862.3
77.5°	273.6	284.7	308.2	369.0	396.6	330.3	308.2	588.7	743.5	309.5
80°	123.0	132.7	210.1	272.2	323.4	228.0	167.2	301.3	330.3	141.0
82.5°	22.1	37.3	123.0	143.7	165.8	147.9	87.1	156.2	161.7	56.7
85°	1.4	2.8	42.8	52.5	66.3	48.4	26.3	62.2	53.9	19.3
87.5°	0.0	0.0	0.0	1.4	1.4	6.9	8.3	11.1	8.3	6.9
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°
5400.5	0°	5400.5	5400.5	5400.5	5400.5	5400.5	5400.5	5400.5	5400.5	5400.5	5400.5
5412.9	2.5°	5313.4	5117.2	4926.5	4770.3	4679.1	4524.4	4422.1	4405.5	4362.7	4400.0
5426.8	5°	5211.2	4860.2	4505.0	4187.2	3926.0	3588.8	3337.3	3230.9	3138.3	3170.1
5462.7	7.5°	5162.8	4608.7	4055.9	3512.8	2954.5	2415.6	2014.8	1847.6	1720.5	1738.4
5502.8	10°	5097.9	4347.5	3481.0	2651.9	1904.3	1372.2	1095.9	993.6	936.9	938.3
5562.2	12.5°	5048.1	4035.2	2813.6	1797.9	1159.4	876.1	790.5	765.6	749.0	750.4
5652.0	15°	5023.2	3667.6	2154.4	1198.1	829.1	742.1	721.4	710.3	699.2	697.9
5751.5	17.5°	4981.8	3258.5	1576.8	874.7	725.5	695.1	677.1	664.7	650.9	648.1
5837.2	20°	4919.6	2794.2	1152.5	739.3	679.9	656.4	631.5	614.9	598.4	595.6
5891.1	22.5°	4804.9	2303.6	885.8	684.0	646.7	620.5	590.1	570.7	554.1	551.4
5864.8	25°	4592.1	1843.5	746.2	649.5	617.7	585.9	552.8	526.5	511.3	508.5
5808.2	27.5°	4322.6	1448.2	677.1	617.7	580.4	551.4	514.1	489.2	475.4	472.6
5733.5	30°	4004.8	1115.2	637.1	581.8	536.2	511.3	478.1	457.4	449.1	449.1
5681.0	32.5°	3662.1	891.3	620.5	545.9	497.5	469.8	443.6	435.3	432.5	431.2
5710.0	35°	3340.1	773.9	612.2	516.8	462.9	436.7	425.6	427.0	432.5	432.5
5799.9	37.5°	3054.0	736.6	608.0	496.1	432.5	409.0	416.0	428.4	422.9	422.9
5957.4	40°	2795.6	740.7	605.3	480.9	407.7	393.8	407.7	398.0	384.2	382.8
6149.5	42.5°	2598.0	775.3	599.7	468.5	392.5	382.8	377.3	362.1	360.7	363.4
6348.5	45°	2454.3	805.7	598.4	462.9	375.9	357.9	351.0	335.8	363.4	370.4
6430.0	47.5°	2284.3	805.7	598.4	443.6	348.2	341.3	330.3	313.7	341.3	348.2
6352.6	50°	2064.6	754.5	574.9	421.5	326.1	322.0	302.6	281.9	276.4	280.5
6171.6	52.5°	1786.8	661.9	515.5	391.1	304.0	295.7	272.2	257.0	252.9	252.9
5846.9	55°	1470.4	554.1	435.3	346.9	280.5	265.3	248.7	241.8	237.7	234.9
5392.2	57.5°	1195.4	454.6	349.6	308.2	258.4	239.1	233.5	225.3	218.3	214.2
5012.2	60°	981.2	357.9	288.8	273.6	236.3	218.3	217.0	205.9	187.9	185.2
4698.5	62.5°	757.3	262.6	243.2	237.7	214.2	199.0	196.2	174.1	146.5	141.0
4253.5	65°	534.8	204.5	196.2	208.7	190.7	176.9	170.0	136.8	107.8	103.6
3559.8	67.5°	375.9	171.4	154.8	182.4	165.8	147.9	143.7	116.1	89.8	87.1
2692.0	70°	268.1	139.6	127.1	156.2	132.7	129.9	121.6	96.7	73.2	70.5
1332.2	72.5°	189.3	106.4	98.1	135.4	91.2	111.9	99.5	74.6	55.3	52.5
453.3	75°	139.6	76.0	69.1	78.8	66.3	84.3	70.5	49.7	34.5	33.2
204.5	77.5°	102.3	48.4	41.5	38.7	38.7	52.5	38.7	20.7	15.2	13.8
103.6	80°	71.9	22.1	19.3	16.6	15.2	12.4	5.5	2.8	1.4	1.4
35.9	82.5°	42.8	9.7	9.7	6.9	4.1	0.0	0.0	0.0	0.0	0.0
13.8	85°	9.7	4.1	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
5.5	87.5°	1.4	1.4	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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