

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: P952203

Luminaire Tested: **GALN-SB6A-850-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952203  
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-SB6A-850-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

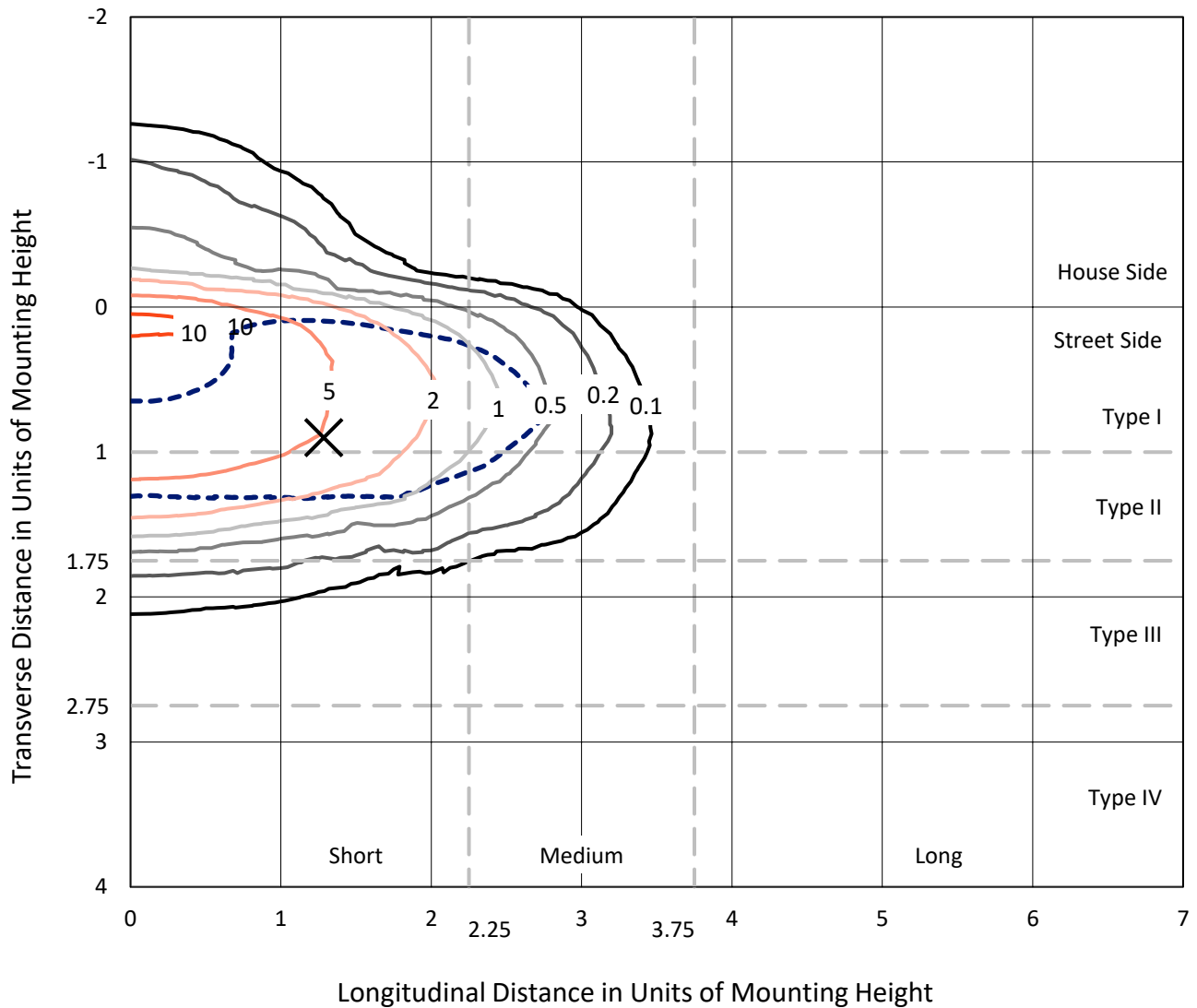
Lumens per Lamp: N/A  
Luminaire Lumens: 22185 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

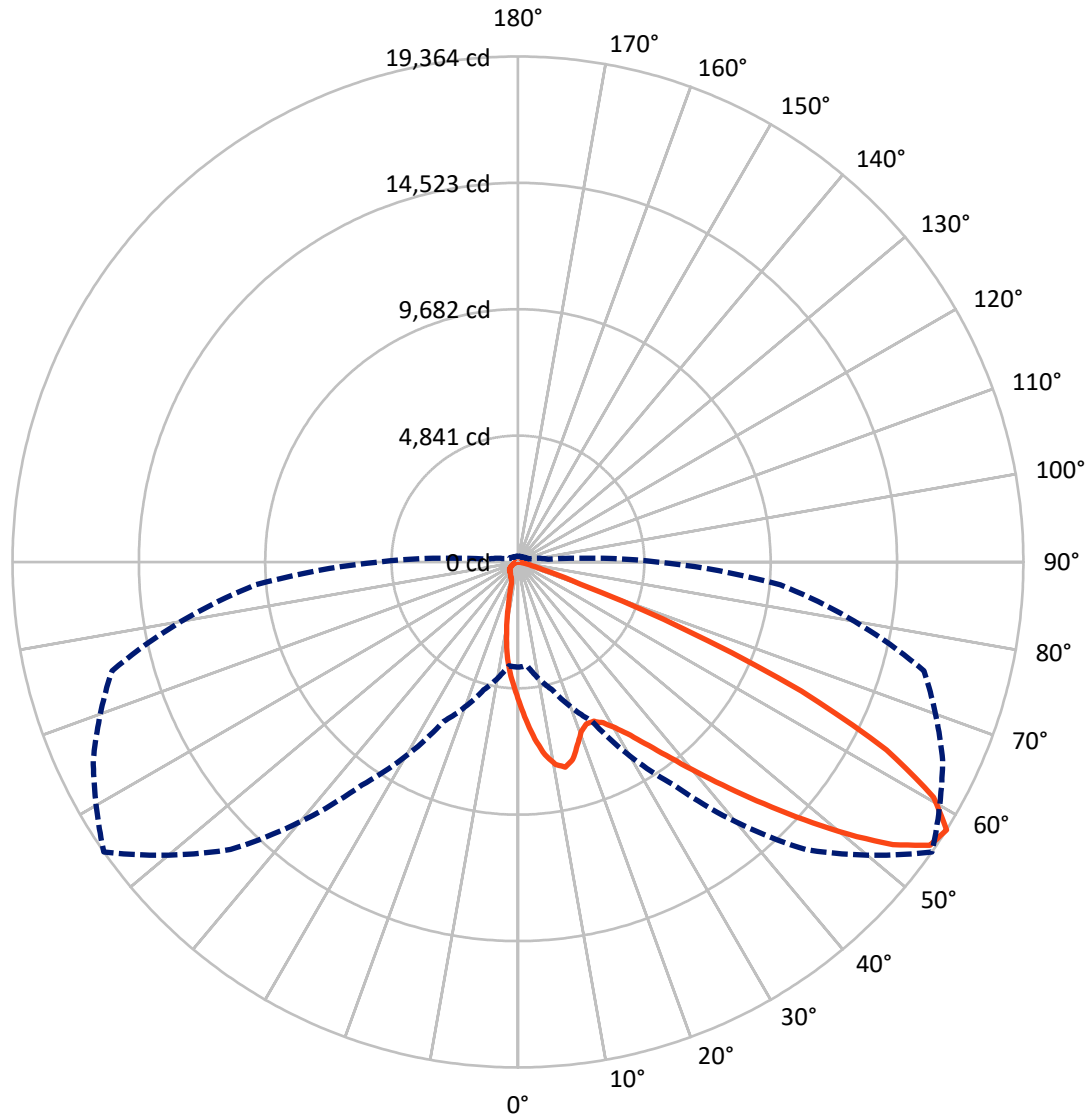
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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
<b>House Side</b>	Lumens	1732.6	0.0	1732.6
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	20452.4	0.0	20452.4
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	22185.0	0.0	22185.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	497.4	2.2
10°-20°	1201.5	5.4
20°-30°	1922.4	8.7
30°-40°	3253.8	14.7
40°-50°	5342.1	24.1
50°-60°	5871.3	26.5
60°-70°	3367.8	15.2
70°-80°	688.1	3.1
80°-90°	40.6	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°	22185.0	100.0
0°-180°	22185.0	100.0

**Coefficient of Utilization**



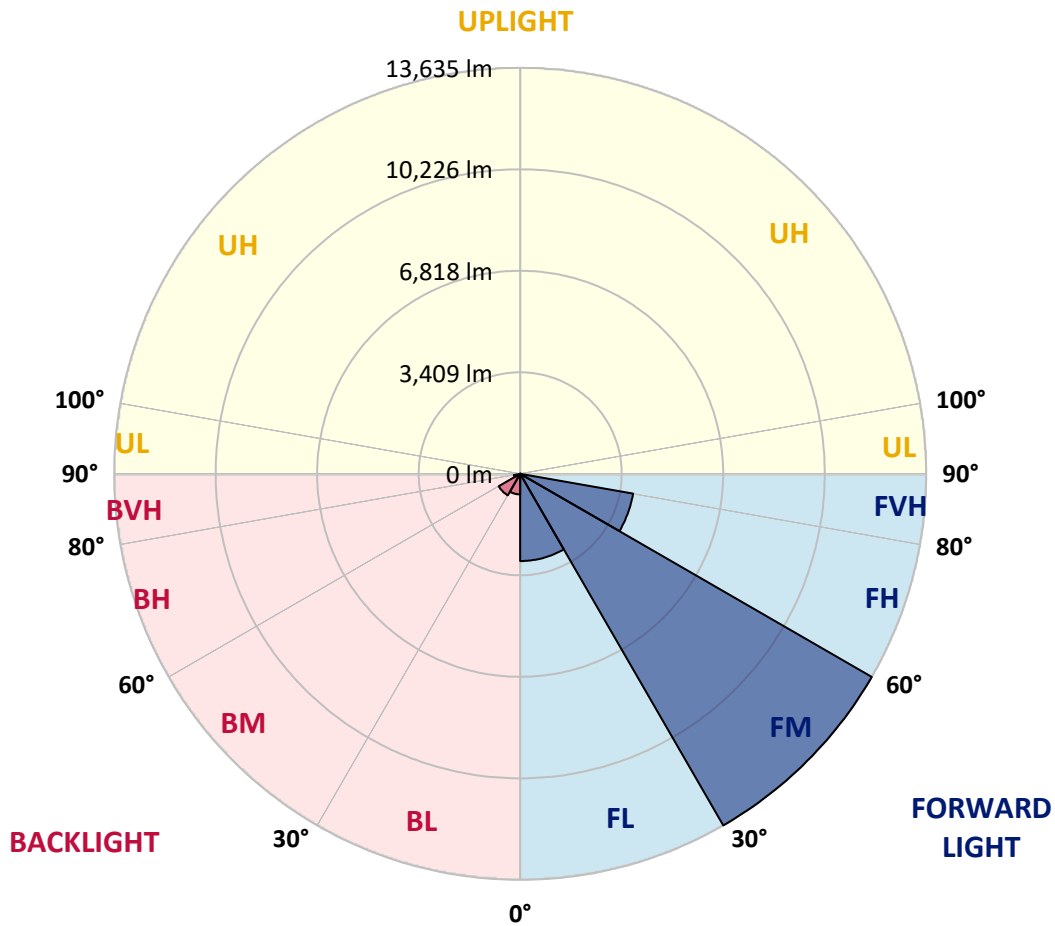
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2929.7	13.2			
FM (30°-60°)	13635.1	61.5			
FH (60°-80°)	3849.9	17.4			G2/5000
FVH (80°-90°)	37.9	0.2			G1/100
BL (0°-30°)	691.7	3.1	B2/1000		
BM (30°-60°)	832.1	3.8	B1/1000		
BH (60°-80°)	206.1	0.9	B1/500		G1/500
BVH (80°-90°)	2.7	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°	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0
2.5°	6633.3	6549.9	6537.5	6521.1	6362.4	6243.4	6071.1	5882.3	5670.2	5454.1
5°	7663.4	7597.7	7585.4	7508.8	7328.2	7125.8	6819.3	6432.2	6036.9	5571.8
7.5°	7863.1	7850.8	7906.9	7904.1	7879.5	7719.5	7460.9	6999.9	6406.2	5716.8
10°	6972.6	7004.0	7170.9	7317.3	7712.6	7942.5	7886.4	7506.1	6786.5	5882.3
12.5°	6161.4	6124.4	6243.4	6409.0	6868.6	7552.6	8062.8	7928.8	7221.5	6069.7
15°	5652.5	5637.4	5704.4	5781.1	6131.3	6820.7	7857.6	8272.1	7640.1	6291.3
17.5°	5489.7	5477.4	5497.9	5517.0	5744.1	6277.6	7369.3	8482.8	8040.9	6544.4
20°	5622.4	5606.0	5603.2	5588.2	5682.6	6046.4	6927.4	8497.8	8400.7	6774.2
22.5°	6009.5	5990.4	5923.3	5863.1	5871.3	6077.9	6730.4	8347.4	8671.6	6989.0
25°	6711.3	6679.8	6540.3	6337.8	6209.2	6296.8	6760.5	8149.0	8930.1	7157.2
27.5°	7589.5	7548.5	7369.3	7068.3	6774.2	6667.5	6978.0	8012.2	9144.9	7285.8
30°	8450.0	8396.6	8220.1	7986.2	7556.7	7220.2	7370.6	8072.4	9400.7	7419.9
32.5°	9378.8	9328.2	9094.3	8804.3	8448.6	7995.8	7908.3	8366.5	9714.0	7607.3
35°	10553.9	10474.6	10142.2	9746.8	9369.2	8911.0	8636.0	8874.0	10131.2	7893.2
37.5°	11891.8	11785.1	11426.7	10880.9	10388.4	9875.4	9522.5	9571.7	10742.7	8276.2
40°	13153.1	13055.9	12724.9	12210.5	11592.2	10969.8	10593.6	10484.1	11586.7	8742.7
42.5°	13909.5	13822.0	13682.5	13465.0	12943.8	12309.0	11834.3	11597.7	12585.4	9300.8
45°	13952.0	13875.3	14062.8	14315.8	14213.2	13790.5	13211.9	12778.2	13588.1	9824.8
47.5°	13273.4	13221.5	13790.5	14674.2	15114.7	15292.6	14759.1	13860.3	14415.7	10201.0
50°	11423.9	11404.8	12575.8	14198.2	15458.1	16608.6	16391.1	14867.1	15057.3	10395.2
52.5°	9905.5	9835.7	10518.3	12674.3	14958.8	17300.8	17986.1	15854.8	15506.0	10432.2
55°	7512.9	7451.3	8307.7	10124.4	13348.7	17054.5	19153.0	16873.9	15827.4	10337.8
57.5°	4030.0	3991.7	5073.8	6738.6	10434.9	15577.1	19363.7	17951.9	16098.3	10087.4
60°	1569.1	1562.2	1967.1	3269.5	6341.9	12672.9	18300.7	18599.0	16267.9	9779.6
62.5°	949.4	969.9	1035.6	1467.8	2801.6	7872.7	15850.7	17863.0	16381.5	9497.8
65°	785.2	786.6	794.8	1008.2	1342.0	3294.1	11932.8	15441.7	16101.0	8995.8
67.5°	673.0	685.4	716.8	800.3	946.6	1444.6	6870.0	11961.6	14395.2	7827.5
70°	530.8	547.2	586.9	658.0	730.5	904.2	2539.0	7958.9	10997.1	5900.1
72.5°	447.3	446.0	466.5	534.9	580.0	636.1	976.7	4459.6	6391.2	2816.7
75°	346.1	359.8	385.8	447.3	474.7	461.0	529.4	1629.3	2290.0	853.6
77.5°	270.9	281.8	305.1	365.2	392.6	326.9	305.1	582.8	736.0	306.4
80°	121.7	131.3	207.9	269.5	320.1	225.7	165.5	298.2	326.9	139.5
82.5°	21.9	36.9	121.7	142.3	164.2	146.4	86.2	154.6	160.1	56.1
85°	1.4	2.7	42.4	52.0	65.7	47.9	26.0	61.6	53.4	19.2
87.5°	0.0	0.0	0.0	1.4	1.4	6.8	8.2	10.9	8.2	6.8
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°
5346.0	0°	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0
5358.3	2.5°	5259.9	5065.6	4876.8	4722.2	4632.0	4478.7	4377.5	4361.1	4318.7	4355.6
5372.0	5°	5158.6	4811.2	4459.6	4145.0	3886.4	3552.6	3303.7	3198.3	3106.7	3138.1
5407.6	7.5°	5110.7	4562.2	4015.0	3477.4	2924.7	2391.2	1994.5	1829.0	1703.1	1720.9
5447.3	10°	5046.5	4303.6	3445.9	2625.1	1885.1	1358.4	1084.8	983.6	927.5	928.9
5506.1	12.5°	4997.2	3994.5	2785.2	1779.7	1147.7	867.3	782.5	757.9	741.4	742.8
5595.0	15°	4972.6	3630.6	2132.7	1186.0	820.8	734.6	714.1	703.1	692.2	690.8
5693.5	17.5°	4931.5	3225.7	1560.9	865.9	718.2	688.1	670.3	658.0	644.3	641.6
5778.3	20°	4870.0	2766.0	1140.9	731.9	673.0	649.8	625.2	608.7	592.3	589.6
5831.7	22.5°	4756.4	2280.4	876.9	677.1	640.2	614.2	584.1	565.0	548.6	545.8
5805.7	25°	4545.8	1824.9	738.7	642.9	611.5	580.0	547.2	521.2	506.1	503.4
5749.6	27.5°	4279.0	1433.6	670.3	611.5	574.5	545.8	508.9	484.3	470.6	467.8
5675.7	30°	3964.4	1104.0	630.6	575.9	530.8	506.1	473.3	452.8	444.6	444.6
5623.7	32.5°	3625.1	882.3	614.2	540.3	492.5	465.1	439.1	430.9	428.2	426.8
5652.5	35°	3306.4	766.1	606.0	511.6	458.3	432.3	421.3	422.7	428.2	428.2
5741.4	37.5°	3023.2	729.1	601.9	491.1	428.2	404.9	411.8	424.1	418.6	418.6
5897.3	40°	2767.4	733.2	599.2	476.1	403.6	389.9	403.6	394.0	380.3	378.9
6087.5	42.5°	2571.8	767.4	593.7	463.7	388.5	378.9	373.5	358.4	357.0	359.8
6284.5	45°	2429.5	797.5	592.3	458.3	372.1	354.3	347.5	332.4	359.8	366.6
6365.2	47.5°	2261.3	797.5	592.3	439.1	344.7	337.9	326.9	310.5	337.9	344.7
6288.6	50°	2043.8	746.9	569.1	417.2	322.8	318.7	299.6	279.1	273.6	277.7
6109.4	52.5°	1768.8	655.3	510.3	387.1	301.0	292.7	269.5	254.4	250.3	250.3
5787.9	55°	1455.5	548.6	430.9	343.4	277.7	262.7	246.2	239.4	235.3	232.6
5337.8	57.5°	1183.3	450.1	346.1	305.1	255.8	236.7	231.2	223.0	216.1	212.0
4961.6	60°	971.3	354.3	285.9	270.9	233.9	216.1	214.8	203.8	186.0	183.3
4651.1	62.5°	749.6	259.9	240.8	235.3	212.0	197.0	194.3	172.4	145.0	139.5
4210.6	65°	529.4	202.5	194.3	206.6	188.8	175.1	168.3	135.4	106.7	102.6
3523.9	67.5°	372.1	169.6	153.2	180.6	164.2	146.4	142.3	114.9	88.9	86.2
2664.8	70°	265.4	138.2	125.9	154.6	131.3	128.6	120.4	95.8	72.5	69.8
1318.7	72.5°	187.4	105.3	97.1	134.1	90.3	110.8	98.5	73.9	54.7	52.0
448.7	75°	138.2	75.2	68.4	78.0	65.7	83.4	69.8	49.2	34.2	32.8
202.5	77.5°	101.2	47.9	41.0	38.3	38.3	52.0	38.3	20.5	15.0	13.7
102.6	80°	71.1	21.9	19.2	16.4	15.0	12.3	5.5	2.7	1.4	1.4
35.6	82.5°	42.4	9.6	9.6	6.8	4.1	0.0	0.0	0.0	0.0	0.0
13.7	85°	9.6	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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