

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: P953715

Luminaire Tested: **GALN-SB7A-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953715
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-SB7A-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 19710 lumens
Efficiency: N/A
Efficacy: 99.0 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

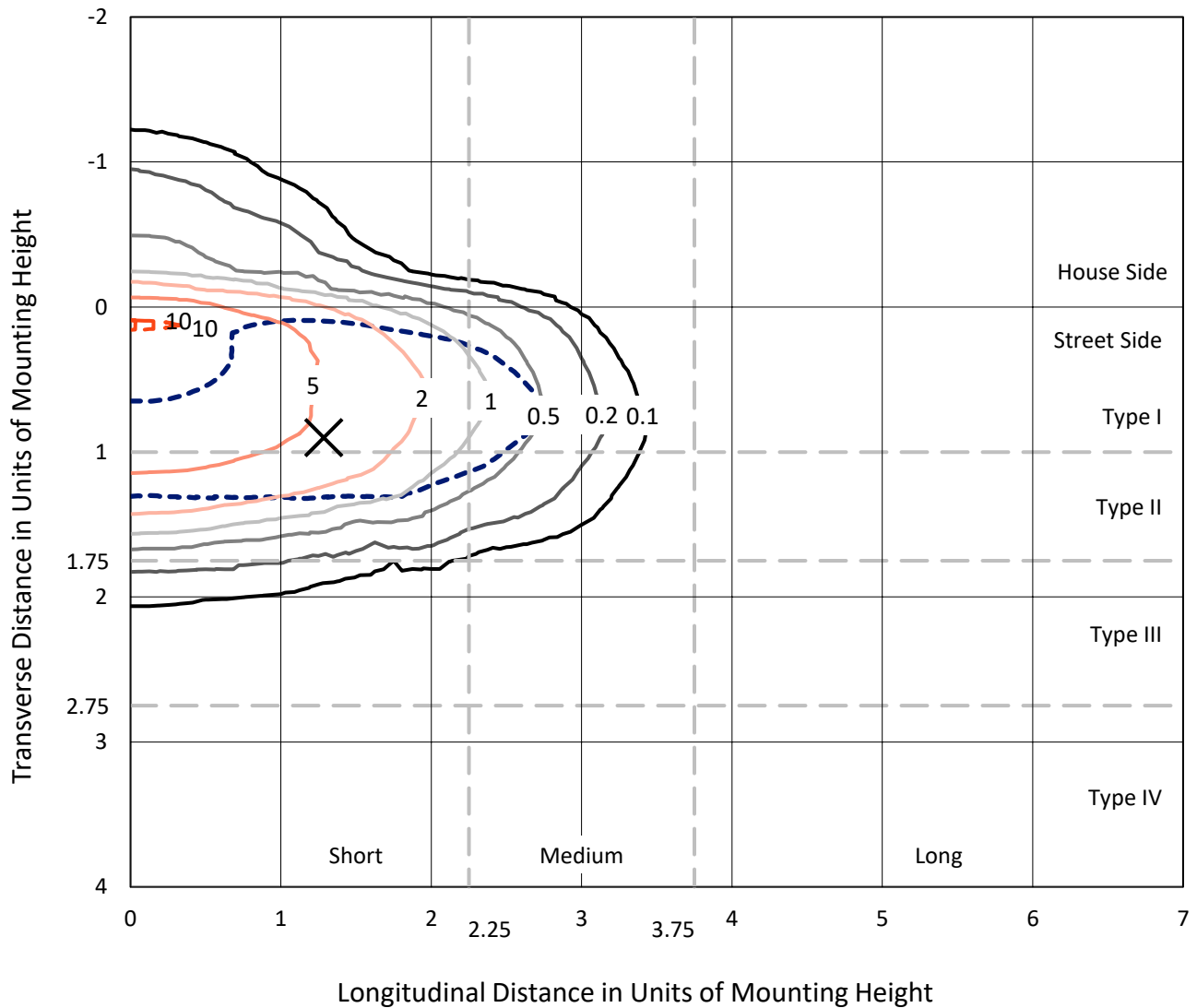
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

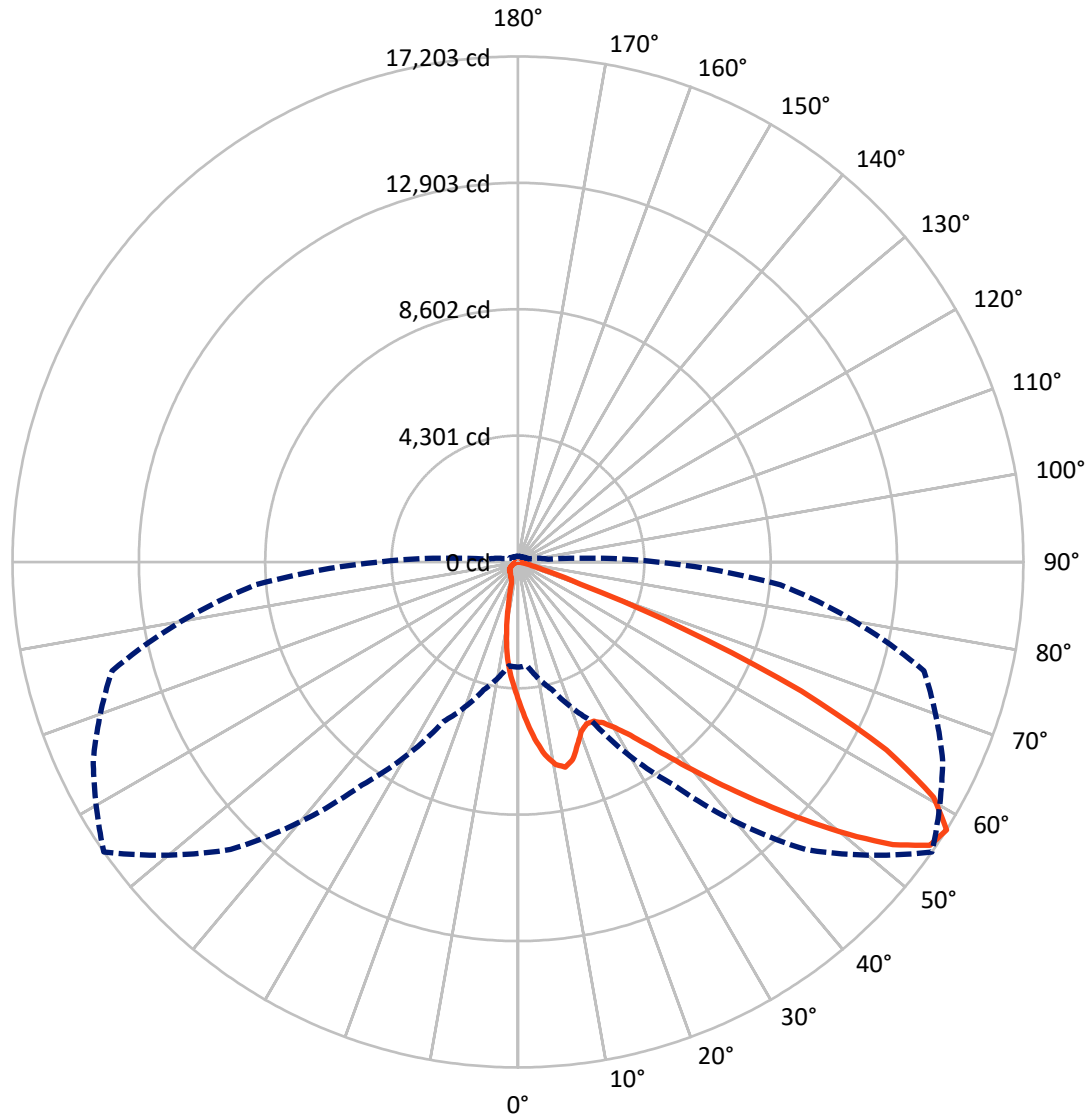
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	1539.3	0.0	1539.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	18170.7	0.0	18170.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	19710.0	0.0	19710.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.9	2.2
10°-20°	1067.5	5.4
20°-30°	1707.9	8.7
30°-40°	2890.8	14.7
40°-50°	4746.1	24.1
50°-60°	5216.3	26.5
60°-70°	2992.1	15.2
70°-80°	611.4	3.1
80°-90°	36.1	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°	19710.0	100.0
0°-180°	19710.0	100.0

Coefficient of Utilization



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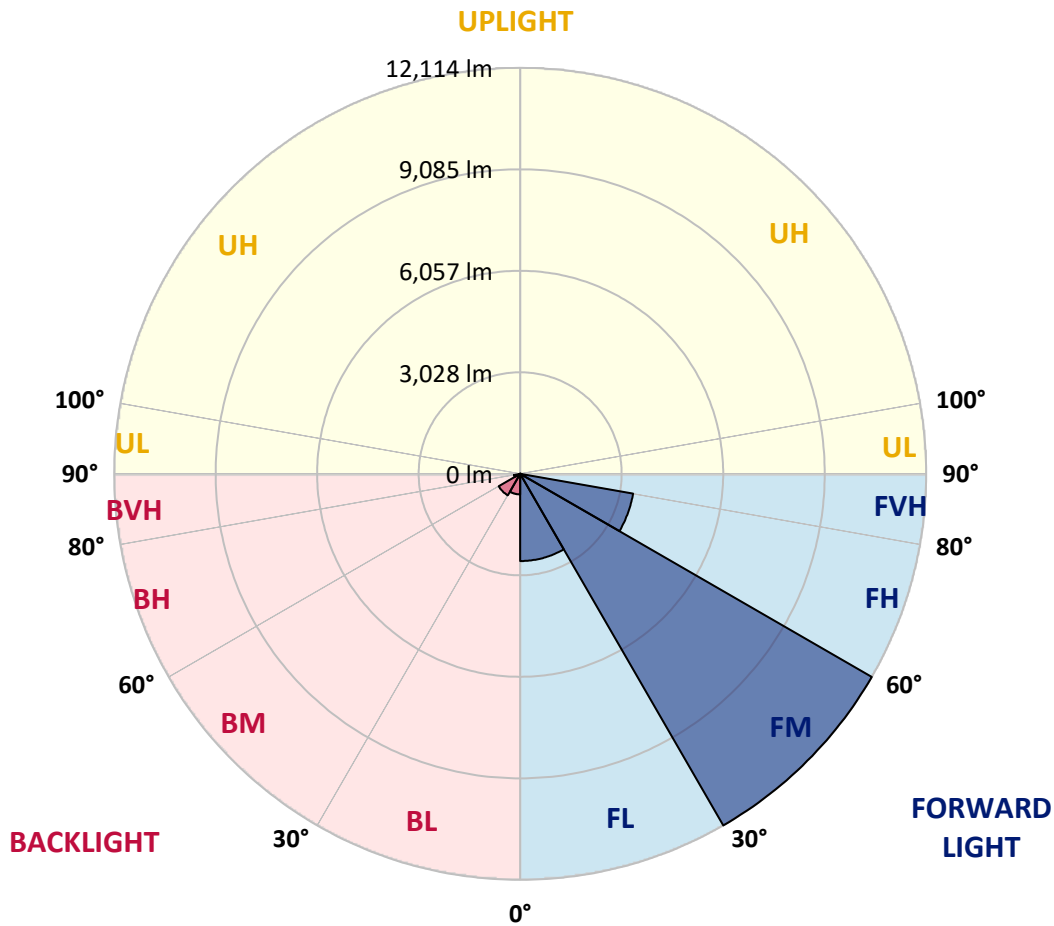
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2602.8	13.2			
FM (30°-60°)	12113.9	61.5			
FH (60°-80°)	3420.4	17.4			G2/5000
FVH (80°-90°)	33.6	0.2			G1/100
BL (0°-30°)	614.5	3.1	B2/1000		
BM (30°-60°)	739.3	3.8	B1/1000		
BH (60°-80°)	183.1	0.9	B1/500		G1/500
BVH (80°-90°)	2.4	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°	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6
2.5°	5893.3	5819.1	5808.2	5793.6	5652.6	5546.9	5393.8	5226.0	5037.7	4845.6
5°	6808.4	6750.1	6739.2	6671.1	6510.7	6330.8	6058.6	5714.6	5363.4	4950.2
7.5°	6985.9	6974.9	7024.8	7022.3	7000.5	6858.3	6628.6	6219.0	5691.5	5079.0
10°	6194.7	6222.6	6370.9	6501.0	6852.2	7056.4	7006.5	6668.7	6029.4	5226.0
12.5°	5474.0	5441.2	5546.9	5694.0	6102.3	6710.0	7163.3	7044.2	6415.9	5392.5
15°	5021.9	5008.5	5068.0	5136.1	5447.2	6059.8	6981.0	7349.3	6787.8	5589.4
17.5°	4877.2	4866.3	4884.5	4901.5	5103.3	5577.3	6547.1	7536.4	7143.9	5814.3
20°	4995.1	4980.5	4978.1	4964.7	5048.6	5371.9	6154.6	7549.8	7463.5	6018.5
22.5°	5339.1	5322.1	5262.5	5209.0	5216.3	5399.8	5979.6	7416.1	7704.2	6209.3
25°	5962.6	5934.6	5810.6	5630.8	5516.5	5594.3	6006.3	7239.9	7933.9	6358.8
27.5°	6742.8	6706.4	6547.1	6279.8	6018.5	5923.7	6199.5	7118.4	8124.7	6473.0
30°	7507.3	7459.9	7303.1	7095.3	6713.6	6414.7	6548.4	7171.8	8351.9	6592.1
32.5°	8332.5	8287.5	8079.7	7822.1	7506.1	7103.8	7026.0	7433.1	8630.3	6758.6
35°	9376.5	9306.0	9010.7	8659.4	8324.0	7916.9	7672.6	7884.0	9001.0	7012.6
37.5°	10565.1	10470.3	10151.9	9667.0	9229.4	8773.7	8460.1	8503.9	9544.2	7352.9
40°	11685.7	11599.4	11305.3	10848.3	10299.0	9746.0	9411.7	9314.5	10294.1	7767.4
42.5°	12357.8	12280.0	12156.0	11962.8	11499.7	10935.8	10514.1	10303.8	11181.3	8263.2
45°	12395.4	12327.4	12493.9	12718.7	12627.6	12252.0	11737.9	11352.7	12072.2	8728.7
47.5°	11792.6	11746.4	12252.0	13037.2	13428.5	13586.5	13112.5	12314.0	12807.5	9062.9
50°	10149.5	10132.5	11172.8	12614.2	13733.6	14755.7	14562.4	13208.5	13377.5	9235.5
52.5°	8800.4	8738.4	9344.9	11260.3	13290.0	15370.6	15979.5	14086.0	13776.1	9268.3
55°	6674.8	6620.1	7380.9	8994.9	11859.5	15151.9	17016.2	14991.5	14061.7	9184.5
57.5°	3580.4	3546.4	4507.8	5986.9	9270.8	13839.3	17203.4	15949.2	14302.3	8962.1
60°	1394.0	1387.9	1747.7	2904.7	5634.4	11259.1	16259.1	16524.0	14453.1	8688.6
62.5°	843.5	861.7	920.0	1304.1	2489.1	6994.4	14082.4	15870.2	14553.9	8438.2
65°	697.6	698.8	706.1	895.7	1192.3	2926.6	10601.6	13719.0	14304.8	7992.2
67.5°	598.0	608.9	636.8	711.0	841.0	1283.4	6103.5	10627.1	12789.2	6954.3
70°	471.6	486.1	521.4	584.6	649.0	803.4	2255.7	7071.0	9770.3	5241.8
72.5°	397.4	396.2	414.4	475.2	515.3	565.1	867.8	3962.1	5678.2	2502.4
75°	307.5	319.6	342.7	397.4	421.7	409.6	470.3	1447.5	2034.5	758.4
77.5°	240.6	250.4	271.0	324.5	348.8	290.5	271.0	517.7	653.9	272.2
80°	108.2	116.7	184.7	239.4	284.4	200.5	147.1	264.9	290.5	124.0
82.5°	19.4	32.8	108.2	126.4	145.8	130.0	76.6	137.3	142.2	49.8
85°	1.2	2.4	37.7	46.2	58.3	42.5	23.1	54.7	47.4	17.0
87.5°	0.0	0.0	0.0	1.2	1.2	6.1	7.3	9.7	7.3	6.1
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°
4749.6	0°	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6	4749.6
4760.6	2.5°	4673.1	4500.5	4332.8	4195.4	4115.2	3979.1	3889.1	3874.6	3836.9	3869.7
4772.7	5°	4583.1	4274.4	3962.1	3682.5	3452.8	3156.3	2935.1	2841.5	2760.1	2788.0
4804.3	7.5°	4540.6	4053.2	3567.1	3089.4	2598.4	2124.4	1772.0	1624.9	1513.1	1528.9
4839.6	10°	4483.5	3823.5	3061.5	2332.3	1674.8	1206.9	963.8	873.8	824.0	825.2
4891.8	12.5°	4439.7	3548.8	2474.5	1581.2	1019.7	770.5	695.2	673.3	658.7	659.9
4970.8	15°	4417.8	3225.6	1894.7	1053.7	729.2	652.6	634.4	624.7	615.0	613.8
5058.3	17.5°	4381.4	2865.8	1386.7	769.3	638.1	611.3	595.5	584.6	572.4	570.0
5133.7	20°	4326.7	2457.5	1013.6	650.2	598.0	577.3	555.4	540.8	526.3	523.8
5181.1	22.5°	4225.8	2026.0	779.0	601.6	568.8	545.7	519.0	501.9	487.4	484.9
5158.0	25°	4038.6	1621.3	656.3	571.2	543.3	515.3	486.1	463.1	449.7	447.3
5108.2	27.5°	3801.6	1273.7	595.5	543.3	510.5	484.9	452.1	430.2	418.1	415.7
5042.5	30°	3522.1	980.8	560.3	511.7	471.6	449.7	420.5	402.3	395.0	395.0
4996.3	32.5°	3220.7	783.9	545.7	480.1	437.5	413.2	390.1	382.8	380.4	379.2
5021.9	35°	2937.5	680.6	538.4	454.5	407.1	384.1	374.3	375.5	380.4	380.4
5100.9	37.5°	2685.9	647.8	534.8	436.3	380.4	359.7	365.8	376.8	371.9	371.9
5239.4	40°	2458.7	651.4	532.3	422.9	358.5	346.4	358.5	350.0	337.9	336.7
5408.3	42.5°	2284.9	681.8	527.5	412.0	345.2	336.7	331.8	318.4	317.2	319.6
5583.4	45°	2158.5	708.6	526.3	407.1	330.6	314.8	308.7	295.3	319.6	325.7
5655.1	47.5°	2009.0	708.6	526.3	390.1	306.3	300.2	290.5	275.9	300.2	306.3
5587.0	50°	1815.7	663.6	505.6	370.7	286.8	283.2	266.2	247.9	243.1	246.7
5427.8	52.5°	1571.5	582.2	453.3	343.9	267.4	260.1	239.4	226.1	222.4	222.4
5142.2	55°	1293.1	487.4	382.8	305.1	246.7	233.3	218.8	212.7	209.0	206.6
4742.3	57.5°	1051.3	399.9	307.5	271.0	227.3	210.3	205.4	198.1	192.0	188.4
4408.1	60°	862.9	314.8	254.0	240.6	207.8	192.0	190.8	181.1	165.3	162.9
4132.2	62.5°	666.0	230.9	213.9	209.0	188.4	175.0	172.6	153.1	128.8	124.0
3740.9	65°	470.3	179.9	172.6	183.5	167.7	155.6	149.5	120.3	94.8	91.2
3130.8	67.5°	330.6	150.7	136.1	160.4	145.8	130.0	126.4	102.1	79.0	76.6
2367.5	70°	235.8	122.8	111.8	137.3	116.7	114.2	107.0	85.1	64.4	62.0
1171.6	72.5°	166.5	93.6	86.3	119.1	80.2	98.4	87.5	65.6	48.6	46.2
398.6	75°	122.8	66.8	60.8	69.3	58.3	74.1	62.0	43.8	30.4	29.2
179.9	77.5°	89.9	42.5	36.5	34.0	34.0	46.2	34.0	18.2	13.4	12.2
91.2	80°	63.2	19.4	17.0	14.6	13.4	10.9	4.9	2.4	1.2	1.2
31.6	82.5°	37.7	8.5	8.5	6.1	3.6	0.0	0.0	0.0	0.0	0.0
12.2	85°	8.5	3.6	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
4.9	87.5°	1.2	1.2	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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