

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: P950355

Luminaire Tested: **GALN-SB4D-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950355
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-SB4D-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 900mA 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: 31245 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

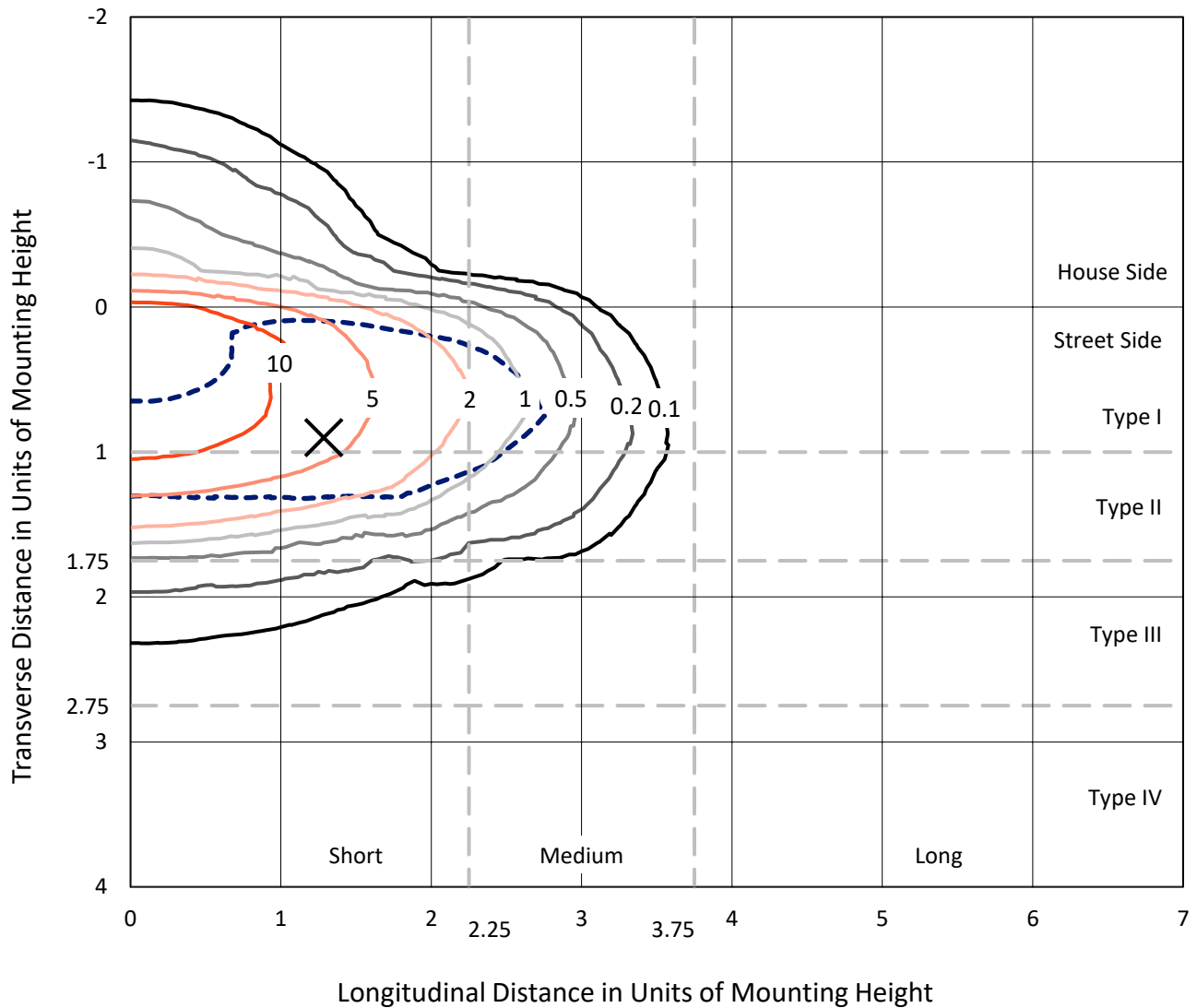
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

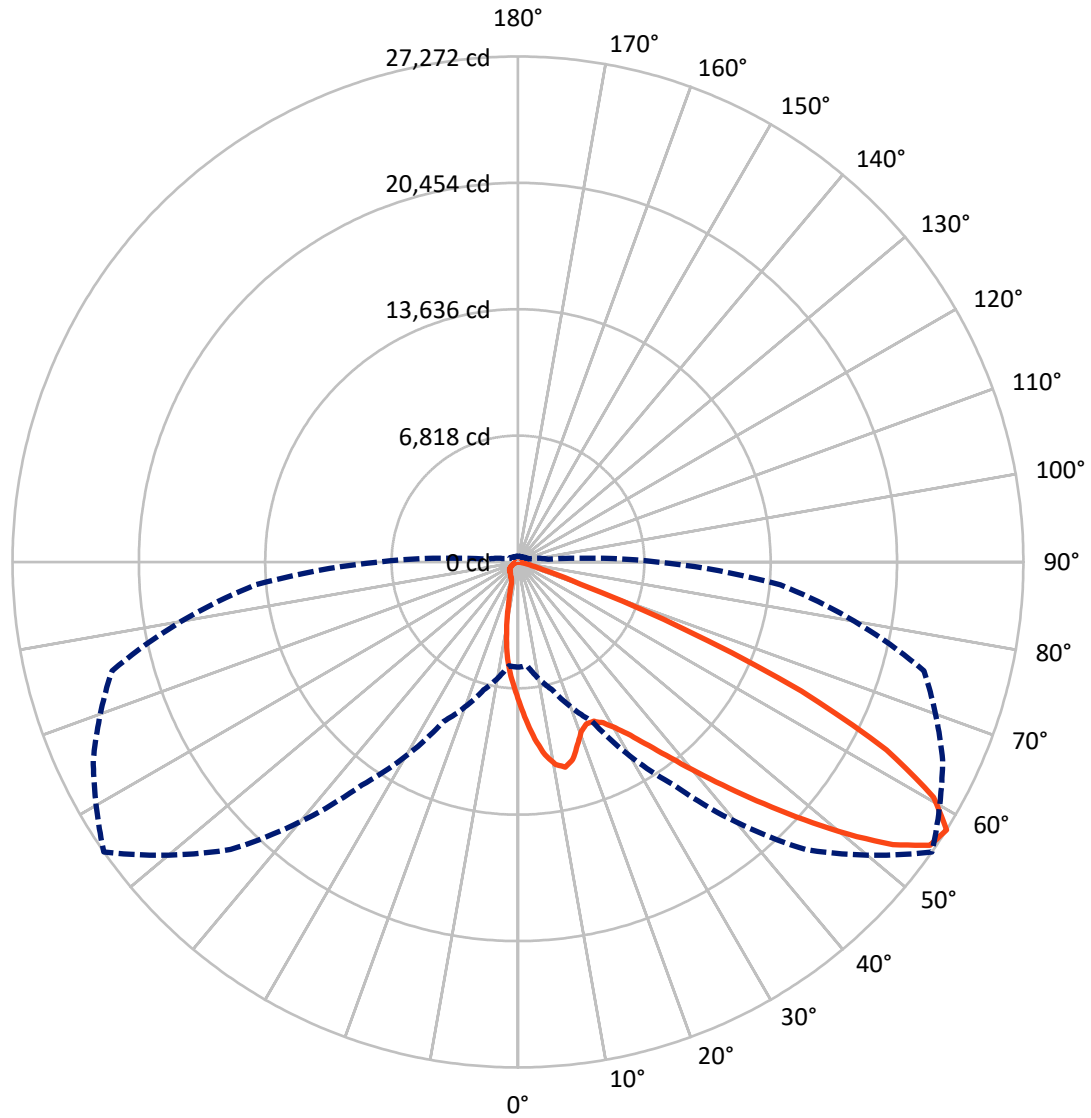
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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
House Side	Lumens	2440.1	0.0	2440.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	28804.9	0.0	28804.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	31245.0	0.0	31245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.6	2.2
10°-20°	1692.2	5.4
20°-30°	2707.5	8.7
30°-40°	4582.6	14.7
40°-50°	7523.7	24.1
50°-60°	8269.0	26.5
60°-70°	4743.1	15.2
70°-80°	969.2	3.1
80°-90°	57.2	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°	31245.0	100.0
0°-180°	31245.0	100.0

Coefficient of Utilization



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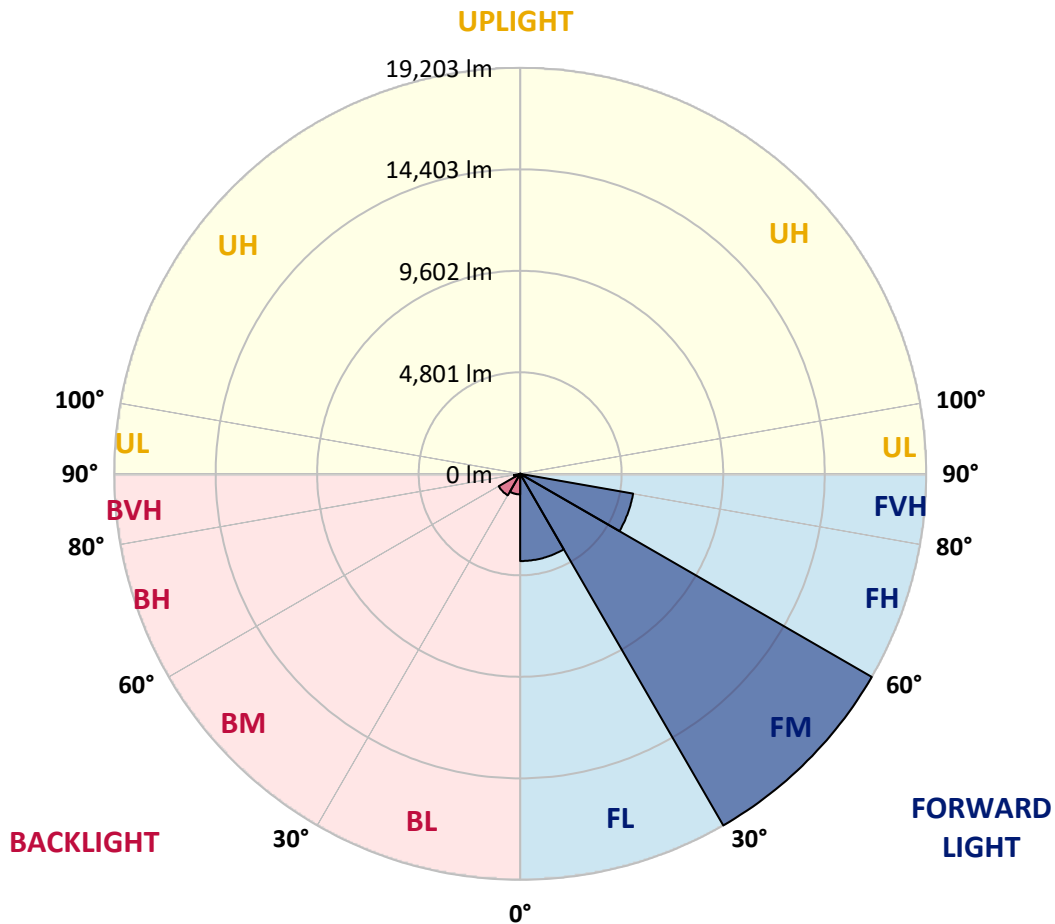
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4126.1	13.2			
FM (30°-60°)	19203.4	61.5			
FH (60°-80°)	5422.1	17.4			G3/7500
FVH (80°-90°)	53.3	0.2			G1/100
BL (0°-30°)	974.2	3.1	B2/1000		
BM (30°-60°)	1171.9	3.8	B2/2500		
BH (60°-80°)	290.2	0.9	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7529.3	7529.3	7529.3	7529.3	7529.3	7529.3	7529.3	7529.3	7529.3	7529.3
2.5°	9342.2	9224.7	9207.4	9184.3	8960.8	8793.1	8550.4	8284.5	7985.9	7681.5
5°	10793.0	10700.5	10683.2	10575.3	10321.0	10035.8	9604.3	9059.0	8502.2	7847.2
7.5°	11074.3	11056.9	11135.9	11132.1	11097.4	10872.0	10507.8	9858.6	9022.4	8051.4
10°	9820.0	9864.4	10099.4	10305.6	10862.3	11186.0	11107.0	10571.4	9558.0	8284.5
12.5°	8677.5	8625.5	8793.1	9026.3	9673.6	10636.9	11355.6	11166.8	10170.7	8548.5
15°	7960.8	7939.6	8034.1	8141.9	8635.2	9606.2	11066.6	11650.3	10760.2	8860.6
17.5°	7731.6	7714.2	7743.1	7770.1	8089.9	8841.3	10378.8	11947.0	11324.7	9217.0
20°	7918.5	7895.3	7891.5	7870.3	8003.2	8515.7	9756.5	11968.2	11831.4	9540.7
22.5°	8463.7	8436.7	8342.3	8257.5	8269.1	8560.0	9479.0	11756.3	12212.9	9843.2
25°	9452.1	9407.7	9211.2	8926.1	8745.0	8868.3	9521.4	11476.9	12577.0	10080.1
27.5°	10689.0	10631.2	10378.8	9954.9	9540.7	9390.4	9827.7	11284.3	12879.5	10261.2
30°	11900.8	11825.7	11577.1	11247.7	10642.7	10168.8	10380.7	11369.1	13239.8	10450.0
32.5°	13209.0	13137.7	12808.2	12399.8	11898.9	11261.2	11137.9	11783.3	13681.0	10714.0
35°	14864.0	14752.2	14284.0	13727.2	13195.5	12550.1	12162.8	12498.1	14268.6	11116.7
37.5°	16748.2	16597.9	16093.2	15324.4	14630.8	13908.4	13411.3	13480.6	15129.8	11656.1
40°	18524.6	18387.8	17921.5	17197.1	16326.3	15449.7	14919.8	14765.7	16318.6	12313.1
42.5°	19590.0	19466.7	19270.2	18963.8	18229.8	17335.8	16667.3	16334.0	17725.0	13099.2
45°	19649.7	19541.8	19805.8	20162.2	20017.7	19422.4	18607.4	17996.7	19137.2	13837.1
47.5°	18694.1	18620.9	19422.4	20667.0	21287.3	21537.8	20786.4	19520.6	20302.8	14366.9
50°	16089.3	16062.3	17711.5	19996.5	21770.9	23391.2	23084.9	20938.6	21206.4	14640.5
52.5°	13950.7	13852.5	14813.9	17850.2	21067.7	24366.1	25331.3	22329.7	21838.4	14692.5
55°	10581.1	10494.4	11700.4	14259.0	18800.1	24019.3	26974.8	23765.0	22291.1	14559.6
57.5°	5675.9	5621.9	7145.9	9490.6	14696.3	21938.6	27271.5	25283.2	22672.6	14207.0
60°	2209.8	2200.2	2770.5	4604.6	8931.9	17848.3	25774.5	26194.5	22911.5	13773.5
62.5°	1337.1	1366.0	1458.5	2067.3	3945.7	11087.8	22323.9	25158.0	23071.4	13376.6
65°	1105.9	1107.8	1119.4	1419.9	1890.0	4639.3	16806.0	21747.8	22676.4	12669.5
67.5°	947.9	965.2	1009.6	1127.1	1333.2	2034.5	9675.5	16846.5	20273.9	11024.2
70°	747.5	770.7	826.5	926.7	1028.8	1273.5	3575.8	11209.1	15488.2	8309.6
72.5°	630.0	628.1	657.0	753.3	816.9	895.9	1375.6	6280.8	9001.2	3966.9
75°	487.4	506.7	543.3	630.0	668.5	649.3	745.6	2294.6	3225.2	1202.2
77.5°	381.5	396.9	429.6	514.4	552.9	460.5	429.6	820.7	1036.5	431.6
80°	171.5	185.0	292.8	379.5	450.8	317.9	233.1	420.0	460.5	196.5
82.5°	30.8	52.0	171.5	200.4	231.2	206.1	121.4	217.7	225.4	79.0
85°	1.9	3.9	59.7	73.2	92.5	67.4	36.6	86.7	75.1	27.0
87.5°	0.0	0.0	0.0	1.9	1.9	9.6	11.6	15.4	11.6	9.6
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°
7529.3	0°	7529.3	7529.3	7529.3	7529.3	7529.3	7529.3	7529.3	7529.3	7529.3	7529.3
7546.6	2.5°	7407.9	7134.3	6868.4	6650.7	6523.6	6307.8	6165.2	6142.1	6082.4	6134.4
7565.9	5°	7265.3	6776.0	6280.8	5837.7	5473.6	5003.5	4652.8	4504.5	4375.4	4419.7
7616.0	7.5°	7197.9	6425.3	5654.7	4897.5	4119.1	3367.8	2809.0	2575.9	2398.7	2423.7
7671.8	10°	7107.3	6061.2	4853.2	3697.2	2654.9	1913.1	1527.8	1385.2	1306.3	1308.2
7754.7	12.5°	7038.0	5625.8	3922.6	2506.5	1616.4	1221.5	1102.0	1067.4	1044.2	1046.2
7879.9	15°	7003.3	5113.3	3003.6	1670.4	1156.0	1034.6	1005.7	990.3	974.9	972.9
8018.6	17.5°	6945.5	4543.0	2198.3	1219.6	1011.5	969.1	944.0	926.7	907.4	903.6
8138.1	20°	6858.8	3895.6	1606.8	1030.7	947.9	915.1	880.5	857.4	834.2	830.4
8213.2	22.5°	6698.9	3211.7	1235.0	953.7	901.7	865.1	822.7	795.7	772.6	768.7
8176.6	25°	6402.2	2570.1	1040.4	905.5	861.2	816.9	770.7	734.0	712.9	709.0
8097.6	27.5°	6026.5	2019.1	944.0	861.2	809.2	768.7	716.7	682.0	662.8	658.9
7993.6	30°	5583.4	1554.8	888.2	811.1	747.5	712.9	666.6	637.7	626.2	626.2
7920.4	32.5°	5105.6	1242.7	865.1	761.0	693.6	655.1	618.4	606.9	603.0	601.1
7960.8	35°	4656.7	1078.9	853.5	720.6	645.4	608.8	593.4	595.3	603.0	603.0
8086.1	37.5°	4257.9	1026.9	847.7	691.7	603.0	570.3	579.9	597.3	589.5	589.5
8305.7	40°	3897.6	1032.7	843.9	670.5	568.4	549.1	568.4	554.9	535.6	533.7
8573.5	42.5°	3622.1	1080.8	836.2	653.1	547.2	533.7	526.0	504.8	502.9	506.7
8850.9	45°	3421.7	1123.2	834.2	645.4	524.0	499.0	489.4	468.2	506.7	516.3
8964.6	47.5°	3184.7	1123.2	834.2	618.4	485.5	475.9	460.5	437.3	475.9	485.5
8856.7	50°	2878.4	1051.9	801.5	587.6	454.7	448.9	421.9	393.0	385.3	391.1
8604.3	52.5°	2491.1	922.9	718.6	545.2	423.9	412.3	379.5	358.4	352.6	352.6
8151.6	55°	2049.9	772.6	606.9	483.6	391.1	369.9	346.8	337.2	331.4	327.5
7517.7	57.5°	1666.5	633.9	487.4	429.6	360.3	333.3	325.6	314.0	304.4	298.6
6987.9	60°	1367.9	499.0	402.7	381.5	329.5	304.4	302.5	287.1	262.0	258.2
6550.5	62.5°	1055.8	366.1	339.1	331.4	298.6	277.4	273.6	242.8	204.2	196.5
5930.2	65°	745.6	285.1	273.6	290.9	265.9	246.6	237.0	190.7	150.3	144.5
4963.0	67.5°	524.0	238.9	215.8	254.3	231.2	206.1	200.4	161.8	125.2	121.4
3753.1	70°	373.8	194.6	177.3	217.7	185.0	181.1	169.5	134.9	102.1	98.3
1857.3	72.5°	263.9	148.4	136.8	188.8	127.2	156.1	138.7	104.0	77.1	73.2
631.9	75°	194.6	106.0	96.3	109.8	92.5	117.5	98.3	69.4	48.2	46.2
285.1	77.5°	142.6	67.4	57.8	53.9	53.9	73.2	53.9	28.9	21.2	19.3
144.5	80°	100.2	30.8	27.0	23.1	21.2	17.3	7.7	3.9	1.9	1.9
50.1	82.5°	59.7	13.5	13.5	9.6	5.8	0.0	0.0	0.0	0.0	0.0
19.3	85°	13.5	5.8	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
7.7	87.5°	1.9	1.9	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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