

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: P949095

Luminaire Tested: **GALN-SB3D-950-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949095  
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-SB3D-950-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

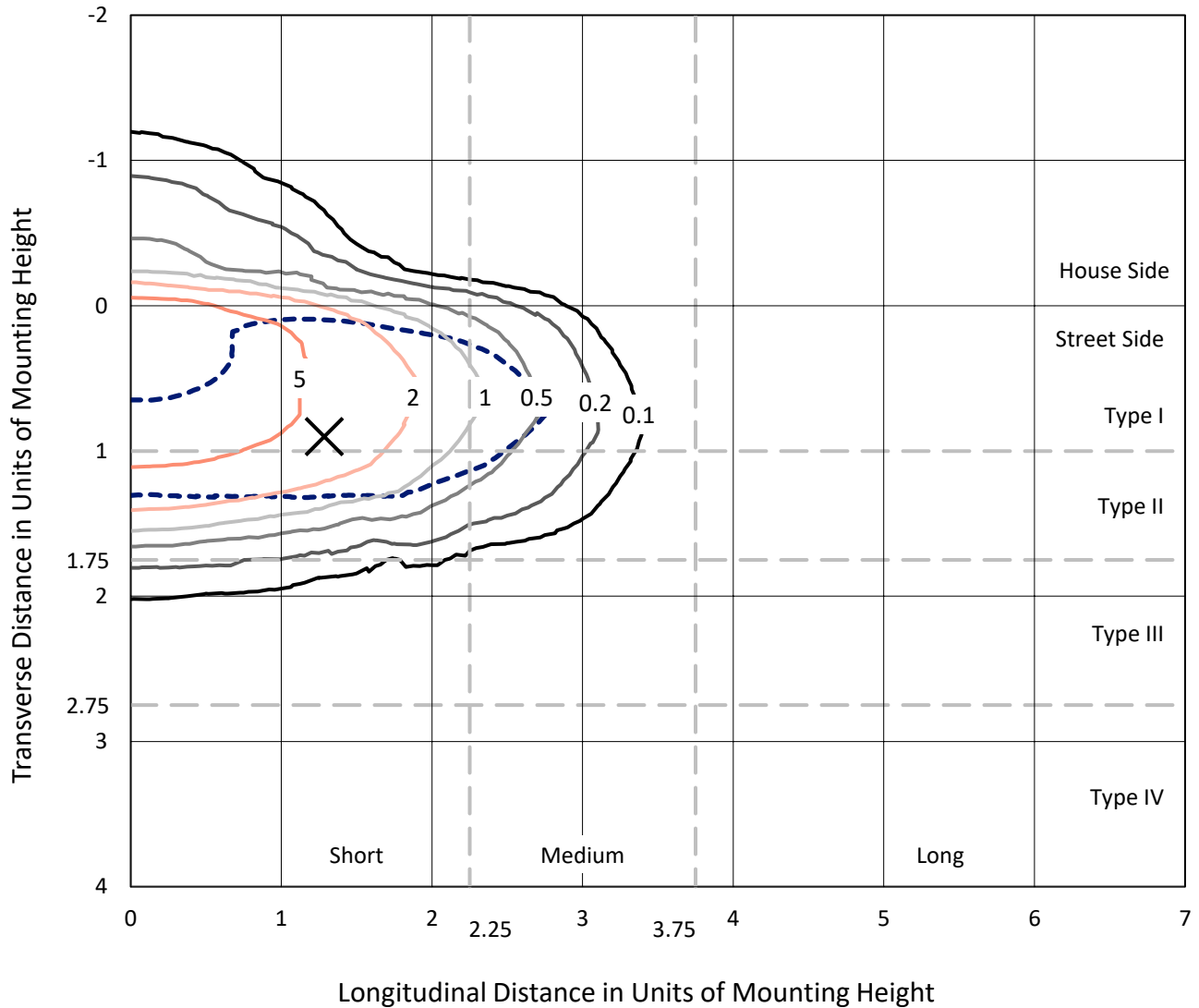
Lumens per Lamp: N/A  
Luminaire Lumens: 18109 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

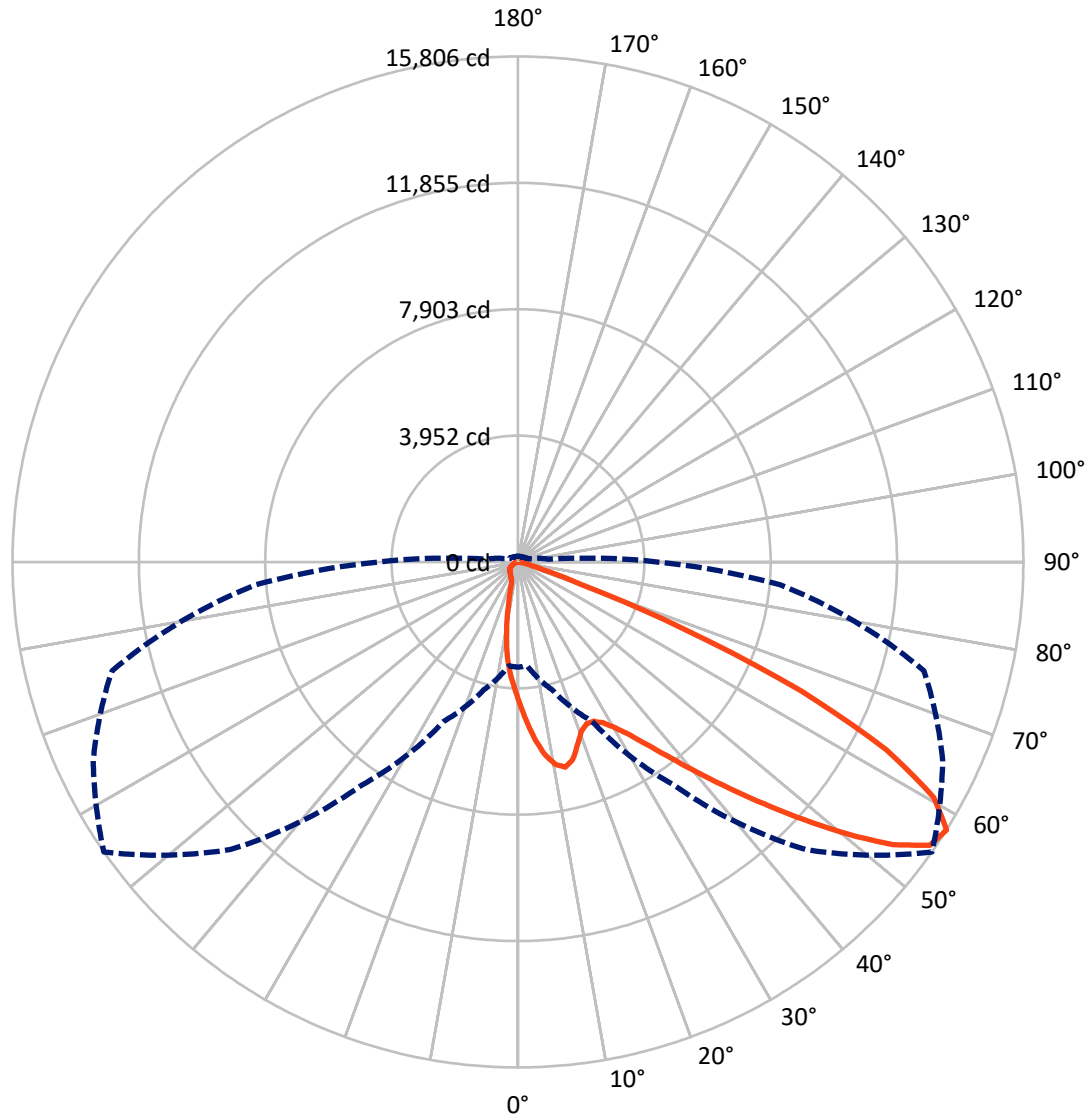
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	1414.2	0.0	1414.2
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	16694.8	0.0	16694.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	18109.0	0.0	18109.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.0	2.2
10°-20°	980.8	5.4
20°-30°	1569.2	8.7
30°-40°	2656.0	14.7
40°-50°	4360.6	24.1
50°-60°	4792.6	26.5
60°-70°	2749.0	15.2
70°-80°	561.7	3.1
80°-90°	33.1	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°	18109.0	100.0
0°-180°	18109.0	100.0

**Coefficient of Utilization**



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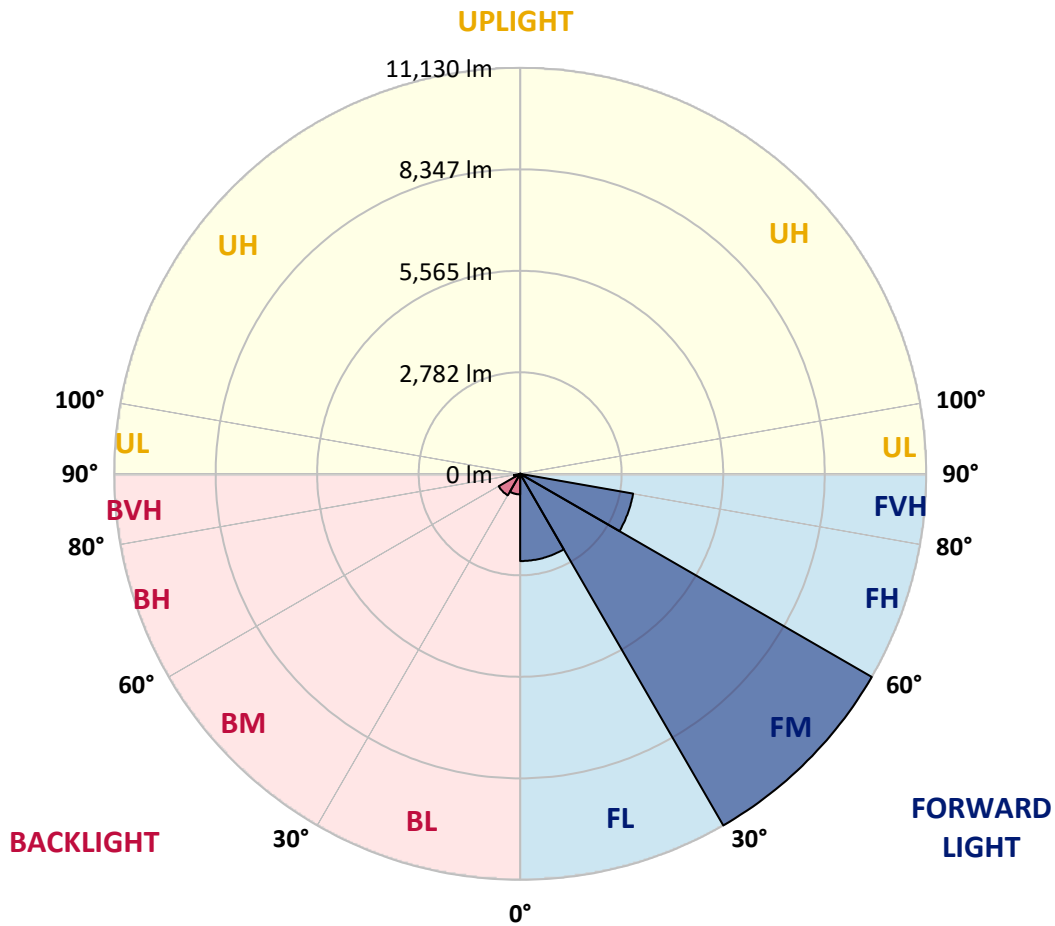
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2391.4	13.2			
FM (30°-60°)	11129.9	61.5			
FH (60°-80°)	3142.5	17.4			G2/5000
FVH (80°-90°)	30.9	0.2			G1/100
BL (0°-30°)	564.6	3.1	B2/1000		
BM (30°-60°)	679.2	3.8	B1/1000		
BH (60°-80°)	168.2	0.9	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8
2.5°	5414.6	5346.5	5336.4	5323.0	5193.5	5096.3	4955.6	4801.5	4628.5	4452.0
5°	6255.4	6201.8	6191.8	6129.2	5981.8	5816.6	5566.4	5250.4	4927.7	4548.1
7.5°	6418.4	6408.4	6454.2	6451.9	6431.8	6301.2	6090.1	5713.8	5229.2	4666.4
10°	5691.5	5717.2	5853.4	5972.9	6295.6	6483.2	6437.4	6127.0	5539.6	4801.5
12.5°	5029.3	4999.2	5096.3	5231.5	5606.6	6165.0	6581.5	6472.0	5894.7	4954.5
15°	4613.9	4601.7	4656.4	4718.9	5004.8	5567.6	6414.0	6752.3	6236.4	5135.4
17.5°	4481.1	4471.0	4487.8	4503.4	4688.8	5124.3	6015.3	6924.3	6563.6	5342.0
20°	4589.4	4576.0	4573.8	4561.5	4638.5	4935.5	5654.7	6936.6	6857.3	5529.6
22.5°	4905.4	4889.8	4835.0	4785.9	4792.6	4961.2	5493.9	6813.7	7078.4	5704.9
25°	5478.2	5452.5	5338.6	5173.4	5068.4	5139.9	5518.4	6651.8	7289.4	5842.3
27.5°	6195.1	6161.6	6015.3	5769.7	5529.6	5442.5	5696.0	6540.2	7464.7	5947.2
30°	6897.5	6853.9	6709.9	6518.9	6168.3	5893.6	6016.4	6589.3	7673.5	6056.6
32.5°	7655.7	7614.4	7423.4	7186.7	6896.4	6526.8	6455.3	6829.4	7929.2	6209.6
35°	8614.9	8550.1	8278.8	7956.0	7647.9	7273.8	7049.3	7243.6	8269.8	6443.0
37.5°	9706.9	9619.8	9327.3	8881.7	8479.8	8061.0	7772.9	7813.1	8769.0	6755.7
40°	10736.5	10657.2	10387.0	9967.1	9462.4	8954.3	8647.2	8557.9	9457.9	7136.4
42.5°	11354.0	11282.5	11168.6	10991.1	10565.6	10047.5	9660.0	9466.9	10273.1	7592.0
45°	11388.6	11326.1	11479.0	11685.6	11601.9	11256.8	10784.5	10430.5	11091.6	8019.7
47.5°	10834.7	10792.3	11256.8	11978.2	12337.7	12482.9	12047.4	11313.8	11767.1	8326.8
50°	9325.0	9309.4	10265.3	11589.6	12618.0	13557.1	13379.6	12135.6	12290.8	8485.3
52.5°	8085.6	8028.6	8585.8	10345.7	12210.4	14122.1	14681.6	12941.8	12657.1	8515.5
55°	6132.6	6082.3	6781.3	8264.2	10896.2	13921.1	15634.1	13773.7	12919.5	8438.4
57.5°	3289.6	3258.4	4141.6	5500.6	8517.7	12715.2	15806.0	14653.6	13140.6	8234.1
60°	1280.8	1275.2	1605.7	2668.8	5176.7	10344.5	14938.4	15181.8	13279.1	7982.8
62.5°	774.9	791.7	845.3	1198.2	2286.9	6426.3	12938.5	14581.1	13371.7	7752.8
65°	641.0	642.1	648.8	823.0	1095.4	2688.9	9740.4	12604.6	13142.8	7343.0
67.5°	549.4	559.4	585.1	653.2	772.7	1179.2	5607.8	9763.9	11750.4	6389.4
70°	433.3	446.7	479.0	537.1	596.3	738.1	2072.5	6496.6	8976.7	4816.1
72.5°	365.1	364.0	380.8	436.6	473.5	519.2	797.3	3640.2	5216.9	2299.2
75°	282.5	293.7	314.9	365.1	387.5	376.3	432.1	1329.9	1869.3	696.8
77.5°	221.1	230.0	249.0	298.1	320.5	266.9	249.0	475.7	600.8	250.1
80°	99.4	107.2	169.7	220.0	261.3	184.2	135.1	243.4	266.9	113.9
82.5°	17.9	30.1	99.4	116.1	134.0	119.5	70.3	126.2	130.6	45.8
85°	1.1	2.2	34.6	42.4	53.6	39.1	21.2	50.2	43.5	15.6
87.5°	0.0	0.0	0.0	1.1	1.1	5.6	6.7	8.9	6.7	5.6
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°
4363.8	0°	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8
4373.9	2.5°	4293.5	4134.9	3980.8	3854.6	3780.9	3655.9	3573.2	3559.8	3525.2	3555.4
4385.0	5°	4210.8	3927.2	3640.2	3383.4	3172.4	2899.9	2696.7	2610.7	2535.9	2561.6
4414.1	7.5°	4171.8	3724.0	3277.3	2838.5	2387.4	1951.9	1628.1	1492.9	1390.2	1404.7
4446.5	10°	4119.3	3512.9	2812.8	2142.8	1538.7	1108.8	885.5	802.9	757.1	758.2
4494.5	12.5°	4079.1	3260.6	2273.5	1452.7	936.9	707.9	638.7	618.6	605.2	606.3
4567.1	15°	4059.0	2963.6	1740.8	968.1	670.0	599.6	582.9	574.0	565.0	563.9
4647.4	17.5°	4025.5	2633.0	1274.1	706.8	586.2	561.7	547.2	537.1	525.9	523.7
4716.7	20°	3975.2	2257.8	931.3	597.4	549.4	530.4	510.3	496.9	483.5	481.3
4760.2	22.5°	3882.6	1861.4	715.8	552.7	522.6	501.4	476.8	461.2	447.8	445.5
4739.0	25°	3710.6	1489.6	603.0	524.8	499.1	473.5	446.7	425.4	413.2	410.9
4693.2	27.5°	3492.8	1170.2	547.2	499.1	469.0	445.5	415.4	395.3	384.1	381.9
4632.9	30°	3236.0	901.1	514.8	470.1	433.3	413.2	386.4	369.6	362.9	362.9
4590.5	32.5°	2959.1	720.2	501.4	441.1	402.0	379.7	358.4	351.7	349.5	348.4
4613.9	35°	2698.9	625.3	494.7	417.6	374.1	352.9	343.9	345.0	349.5	349.5
4686.5	37.5°	2467.8	595.2	491.3	400.9	349.5	330.5	336.1	346.2	341.7	341.7
4813.8	40°	2259.0	598.5	489.1	388.6	329.4	318.2	329.4	321.6	310.4	309.3
4969.0	42.5°	2099.3	626.4	484.6	378.5	317.1	309.3	304.8	292.6	291.4	293.7
5129.8	45°	1983.1	651.0	483.5	374.1	303.7	289.2	283.6	271.3	293.7	299.3
5195.7	47.5°	1845.8	651.0	483.5	358.4	281.4	275.8	266.9	253.5	275.8	281.4
5133.2	50°	1668.3	609.7	464.5	340.6	263.5	260.2	244.5	227.8	223.3	226.7
4986.9	52.5°	1443.8	534.9	416.5	316.0	245.7	239.0	220.0	207.7	204.3	204.3
4724.5	55°	1188.1	447.8	351.7	280.3	226.7	214.4	201.0	195.4	192.1	189.8
4357.1	57.5°	965.9	367.4	282.5	249.0	208.8	193.2	188.7	182.0	176.4	173.1
4050.0	60°	792.8	289.2	233.4	221.1	190.9	176.4	175.3	166.4	151.9	149.6
3796.6	62.5°	611.9	212.2	196.5	192.1	173.1	160.8	158.6	140.7	118.4	113.9
3437.0	65°	432.1	165.3	158.6	168.6	154.1	142.9	137.3	110.5	87.1	83.7
2876.5	67.5°	303.7	138.5	125.1	147.4	134.0	119.5	116.1	93.8	72.6	70.3
2175.2	70°	216.6	112.8	102.7	126.2	107.2	105.0	98.3	78.2	59.2	56.9
1076.4	72.5°	153.0	86.0	79.3	109.4	73.7	90.4	80.4	60.3	44.7	42.4
366.3	75°	112.8	61.4	55.8	63.6	53.6	68.1	56.9	40.2	27.9	26.8
165.3	77.5°	82.6	39.1	33.5	31.3	31.3	42.4	31.3	16.7	12.3	11.2
83.7	80°	58.1	17.9	15.6	13.4	12.3	10.0	4.5	2.2	1.1	1.1
29.0	82.5°	34.6	7.8	7.8	5.6	3.3	0.0	0.0	0.0	0.0	0.0
11.2	85°	7.8	3.3	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
4.5	87.5°	1.1	1.1	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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