

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: P948381

Luminaire Tested: **GALN-SB3B-950-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948381  
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-SB3B-950-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

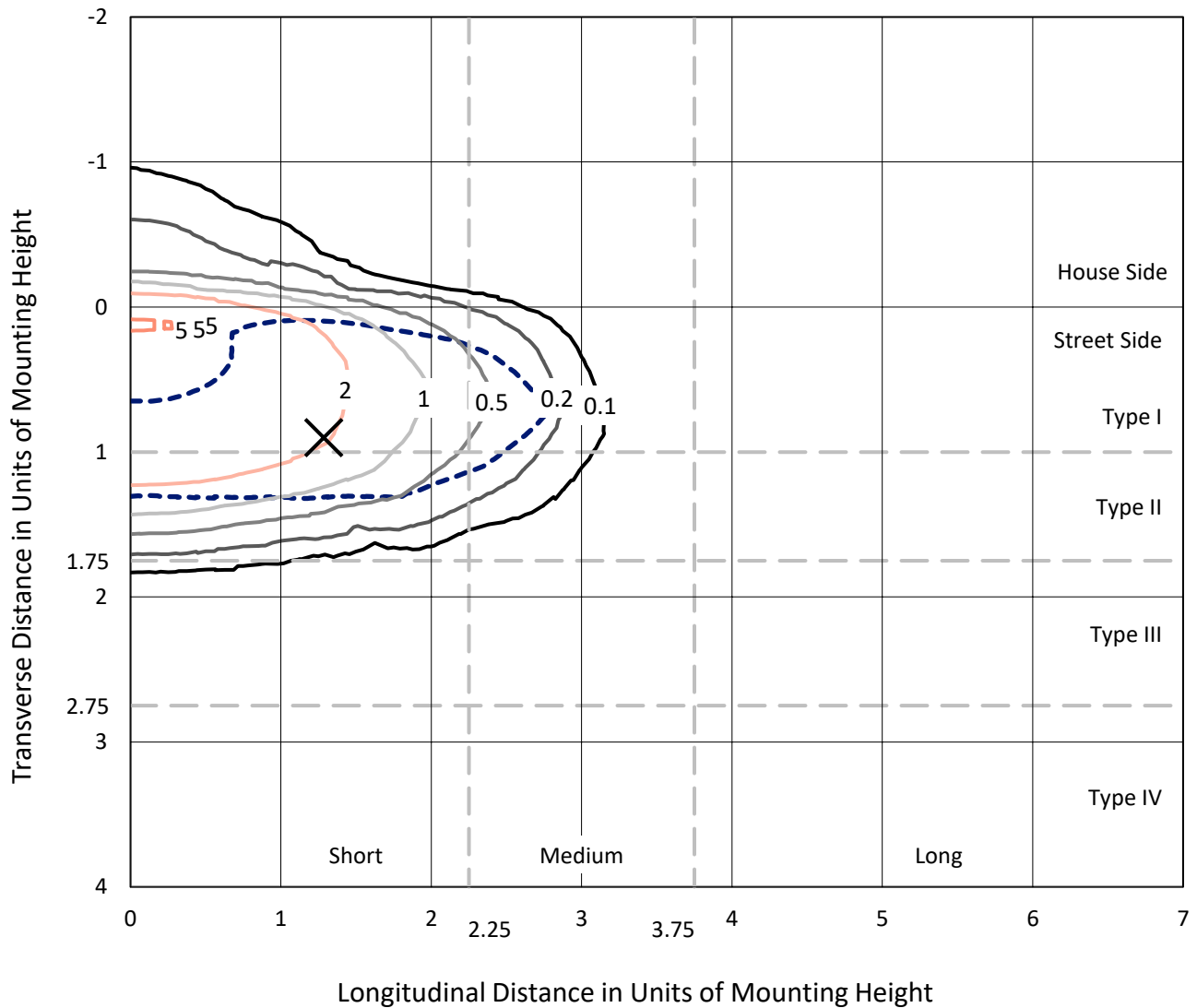
Lumens per Lamp: N/A  
Luminaire Lumens: 10021 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

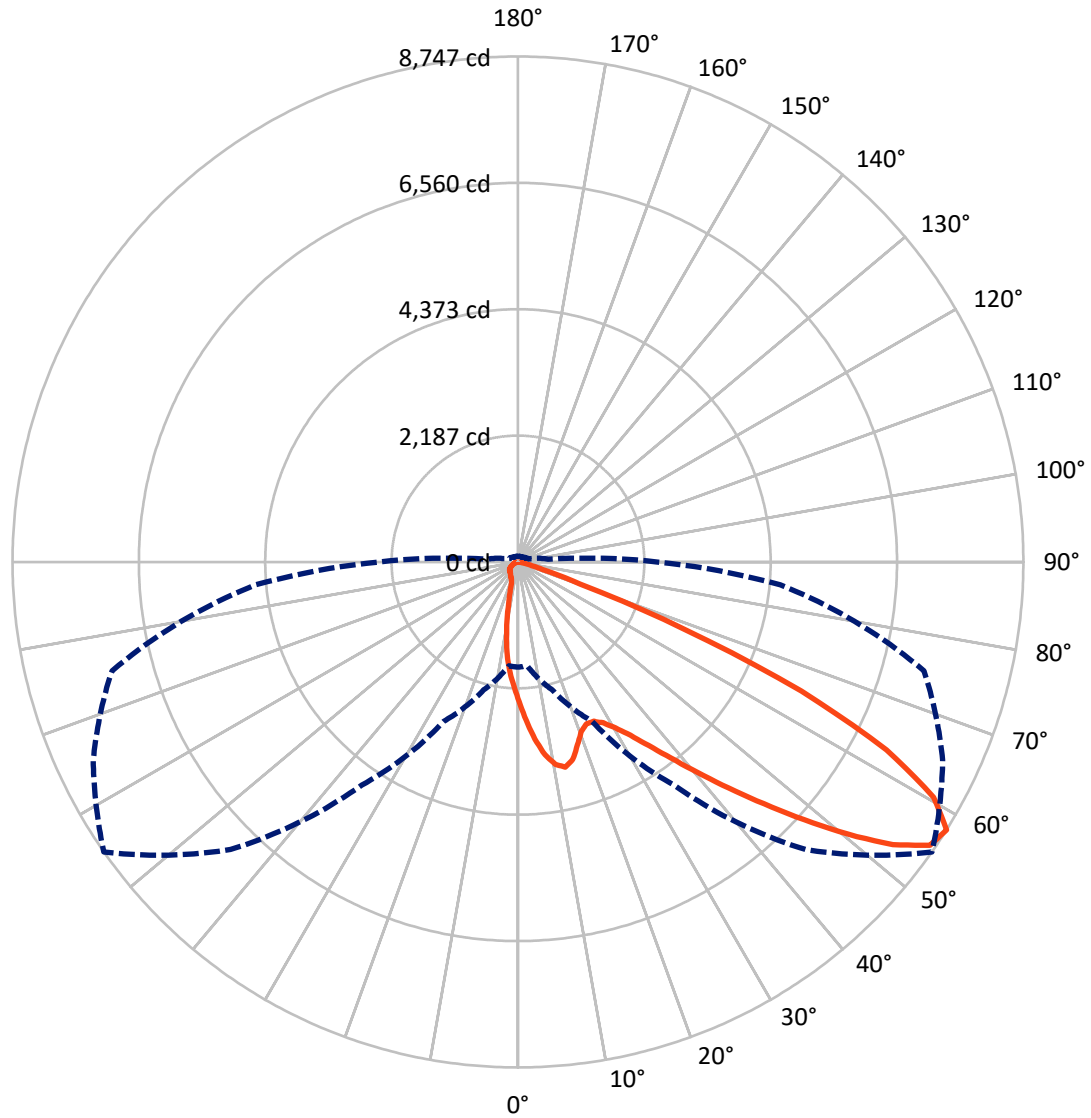
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	782.6	0.0	782.6
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	9238.4	0.0	9238.4
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	10021.0	0.0	10021.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.7	2.2
10°-20°	542.7	5.4
20°-30°	868.4	8.7
30°-40°	1469.7	14.7
40°-50°	2413.0	24.1
50°-60°	2652.1	26.5
60°-70°	1521.2	15.2
70°-80°	310.8	3.1
80°-90°	18.3	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°	10021.0	100.0
0°-180°	10021.0	100.0

**Coefficient of Utilization**



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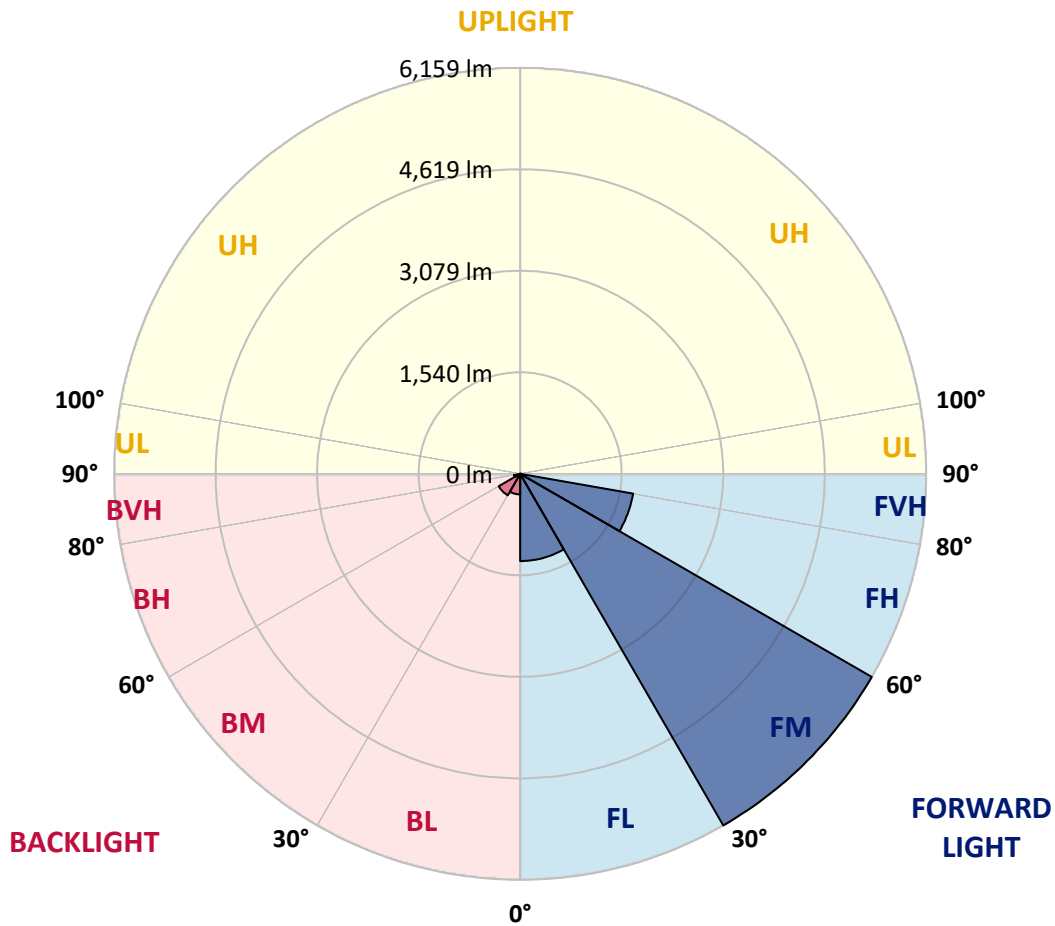
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1323.3	13.2			
FM (30°-60°)	6159.0	61.5			
FH (60°-80°)	1739.0	17.4			G1/1800
FVH (80°-90°)	17.1	0.2			G1/100
BL (0°-30°)	312.4	3.1	B1/500		
BM (30°-60°)	375.9	3.8	B1/1000		
BH (60°-80°)	93.1	0.9	B0/110		G0/110
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2414.8	2414.8	2414.8	2414.8	2414.8	2414.8	2414.8	2414.8	2414.8	2414.8
2.5°	2996.3	2958.6	2953.0	2945.6	2873.9	2820.2	2742.3	2657.0	2561.3	2463.6
5°	3461.6	3431.9	3426.3	3391.7	3310.2	3218.7	3080.3	2905.4	2726.9	2516.8
7.5°	3551.8	3546.2	3571.6	3570.3	3559.2	3486.9	3370.1	3161.9	2893.7	2582.3
10°	3149.5	3163.7	3239.1	3305.2	3483.8	3587.6	3562.3	3390.5	3065.5	2657.0
12.5°	2783.1	2766.4	2820.2	2894.9	3102.6	3411.5	3642.0	3581.4	3262.0	2741.7
15°	2553.2	2546.4	2576.7	2611.3	2769.5	3080.9	3549.3	3736.5	3451.1	2841.8
17.5°	2479.7	2474.1	2483.4	2492.1	2594.6	2835.6	3328.7	3831.7	3632.1	2956.1
20°	2539.6	2532.2	2531.0	2524.2	2566.8	2731.2	3129.1	3838.5	3794.6	3059.9
22.5°	2714.5	2705.9	2675.6	2648.4	2652.1	2745.4	3040.1	3770.5	3917.0	3156.9
25°	3031.5	3017.3	2954.3	2862.8	2804.7	2844.3	3053.7	3680.9	4033.8	3232.9
27.5°	3428.2	3409.7	3328.7	3192.8	3059.9	3011.7	3152.0	3619.1	4130.8	3291.0
30°	3816.9	3792.8	3713.1	3607.4	3413.4	3261.4	3329.3	3646.3	4246.3	3351.6
32.5°	4236.4	4213.6	4107.9	3976.9	3816.2	3611.7	3572.2	3779.2	4387.8	3436.2
35°	4767.2	4731.4	4581.2	4402.6	4232.1	4025.1	3900.9	4008.4	4576.3	3565.4
37.5°	5371.5	5323.3	5161.4	4914.9	4692.5	4460.7	4301.3	4323.6	4852.5	3738.4
40°	5941.3	5897.4	5747.9	5515.5	5236.2	4955.1	4785.1	4735.7	5233.7	3949.1
42.5°	6283.0	6243.4	6180.4	6082.1	5846.7	5560.0	5345.6	5238.7	5684.8	4201.2
45°	6302.1	6267.5	6352.2	6466.5	6420.1	6229.2	5967.8	5771.9	6137.8	4437.9
47.5°	5995.6	5972.2	6229.2	6628.4	6827.3	6907.7	6666.7	6260.7	6511.6	4607.8
50°	5160.2	5151.6	5680.5	6413.3	6982.4	7502.1	7403.9	6715.5	6801.4	4695.5
52.5°	4474.3	4442.8	4751.2	5725.0	6756.9	7814.8	8124.4	7161.6	7004.1	4712.2
55°	3393.6	3365.8	3752.6	4573.2	6029.6	7703.6	8651.4	7622.0	7149.3	4669.6
57.5°	1820.4	1803.1	2291.8	3043.9	4713.5	7036.2	8746.6	8108.9	7271.6	4556.5
60°	708.7	705.7	888.6	1476.8	2864.7	5724.4	8266.5	8401.2	7348.3	4417.5
62.5°	428.8	438.1	467.8	663.0	1265.5	3556.1	7159.8	8068.7	7399.5	4290.2
65°	354.7	355.3	359.0	455.4	606.2	1487.9	5390.1	6975.0	7272.9	4063.4
67.5°	304.0	309.6	323.8	361.5	427.6	652.5	3103.2	5403.1	6502.3	3535.7
70°	239.8	247.2	265.1	297.2	330.0	408.4	1146.9	3595.0	4967.4	2665.1
72.5°	202.1	201.4	210.7	241.6	262.0	287.3	441.2	2014.4	2886.9	1272.3
75°	156.3	162.5	174.3	202.1	214.4	208.2	239.1	735.9	1034.4	385.6
77.5°	122.3	127.3	137.8	165.0	177.3	147.7	137.8	263.2	332.4	138.4
80°	55.0	59.3	93.9	121.7	144.6	102.0	74.8	134.7	147.7	63.0
82.5°	9.9	16.7	55.0	64.3	74.1	66.1	38.9	69.8	72.3	25.3
85°	0.6	1.2	19.2	23.5	29.7	21.6	11.7	27.8	24.1	8.7
87.5°	0.0	0.0	0.0	0.6	0.6	3.1	3.7	4.9	3.7	3.1
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°
2414.8	0°	2414.8	2414.8	2414.8	2414.8	2414.8	2414.8	2414.8	2414.8	2414.8	2414.8
2420.4	2.5°	2375.9	2288.1	2202.9	2133.0	2092.3	2023.1	1977.3	1969.9	1950.8	1967.4
2426.6	5°	2330.2	2173.2	2014.4	1872.3	1755.5	1604.7	1492.3	1444.7	1403.3	1417.5
2442.6	7.5°	2308.5	2060.7	1813.6	1570.7	1321.1	1080.1	900.9	826.2	769.3	777.3
2460.5	10°	2279.5	1944.0	1556.5	1185.8	851.5	613.6	490.0	444.3	418.9	419.6
2487.1	12.5°	2257.2	1804.3	1258.1	803.9	518.4	391.8	353.4	342.3	334.9	335.5
2527.3	15°	2246.1	1639.9	963.3	535.7	370.7	331.8	322.6	317.6	312.7	312.0
2571.8	17.5°	2227.6	1457.0	705.0	391.1	324.4	310.8	302.8	297.2	291.0	289.8
2610.1	20°	2199.8	1249.4	515.3	330.6	304.0	293.5	282.4	275.0	267.6	266.3
2634.2	22.5°	2148.5	1030.1	396.1	305.9	289.2	277.4	263.8	255.2	247.8	246.5
2622.4	25°	2053.3	824.3	333.7	290.4	276.2	262.0	247.2	235.4	228.6	227.4
2597.1	27.5°	1932.8	647.6	302.8	276.2	259.5	246.5	229.9	218.7	212.6	211.3
2563.7	30°	1790.7	498.7	284.9	260.1	239.8	228.6	213.8	204.5	200.8	200.8
2540.3	32.5°	1637.5	398.6	277.4	244.1	222.4	210.1	198.4	194.6	193.4	192.8
2553.2	35°	1493.5	346.0	273.7	231.1	207.0	195.3	190.3	190.9	193.4	193.4
2593.4	37.5°	1365.6	329.3	271.9	221.8	193.4	182.9	186.0	191.6	189.1	189.1
2663.8	40°	1250.0	331.2	270.6	215.0	182.3	176.1	182.3	178.0	171.8	171.2
2749.7	42.5°	1161.7	346.7	268.2	209.5	175.5	171.2	168.7	161.9	161.3	162.5
2838.7	45°	1097.4	360.2	267.6	207.0	168.1	160.0	157.0	150.2	162.5	165.6
2875.2	47.5°	1021.4	360.2	267.6	198.4	155.7	152.6	147.7	140.3	152.6	155.7
2840.6	50°	923.2	337.4	257.1	188.5	145.8	144.0	135.3	126.1	123.6	125.4
2759.6	52.5°	799.0	296.0	230.5	174.9	135.9	132.2	121.7	114.9	113.1	113.1
2614.4	55°	657.5	247.8	194.6	155.1	125.4	118.6	111.2	108.1	106.3	105.0
2411.1	57.5°	534.5	203.3	156.3	137.8	115.6	106.9	104.4	100.7	97.6	95.8
2241.2	60°	438.7	160.0	129.1	122.3	105.7	97.6	97.0	92.1	84.0	82.8
2100.9	62.5°	338.6	117.4	108.8	106.3	95.8	89.0	87.7	77.9	65.5	63.0
1901.9	65°	239.1	91.5	87.7	93.3	85.3	79.1	76.0	61.2	48.2	46.3
1591.8	67.5°	168.1	76.6	69.2	81.6	74.1	66.1	64.3	51.9	40.2	38.9
1203.7	70°	119.9	62.4	56.8	69.8	59.3	58.1	54.4	43.3	32.7	31.5
595.7	72.5°	84.7	47.6	43.9	60.6	40.8	50.1	44.5	33.4	24.7	23.5
202.7	75°	62.4	34.0	30.9	35.2	29.7	37.7	31.5	22.2	15.4	14.8
91.5	77.5°	45.7	21.6	18.5	17.3	17.3	23.5	17.3	9.3	6.8	6.2
46.3	80°	32.1	9.9	8.7	7.4	6.8	5.6	2.5	1.2	0.6	0.6
16.1	82.5°	19.2	4.3	4.3	3.1	1.9	0.0	0.0	0.0	0.0	0.0
6.2	85°	4.3	1.9	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
2.5	87.5°	0.6	0.6	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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