

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: P948654

Luminaire Tested: **GALN-SB3C-927-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948654  
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-SB3C-927-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

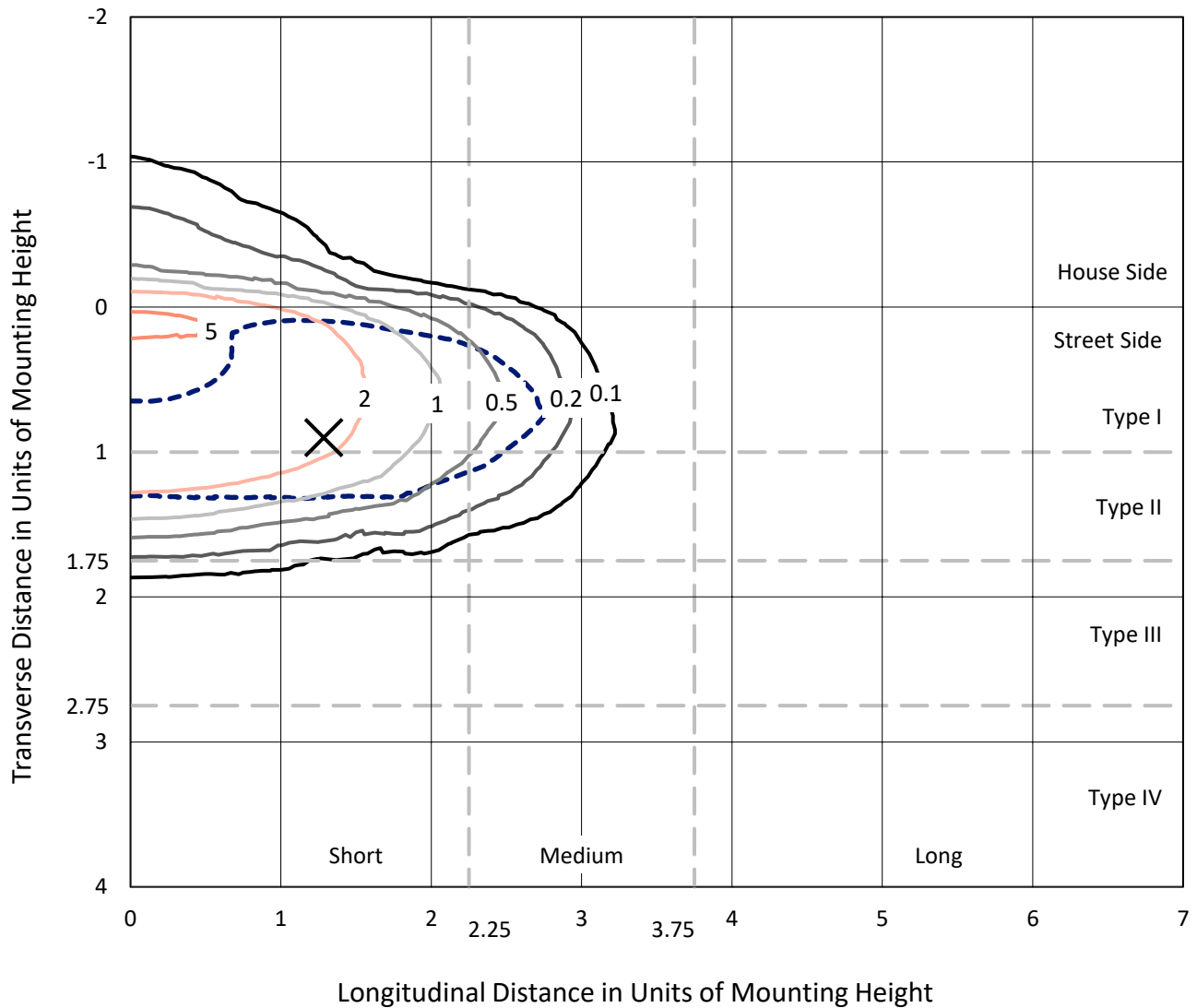
Lumens per Lamp: N/A  
Luminaire Lumens: 11662 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

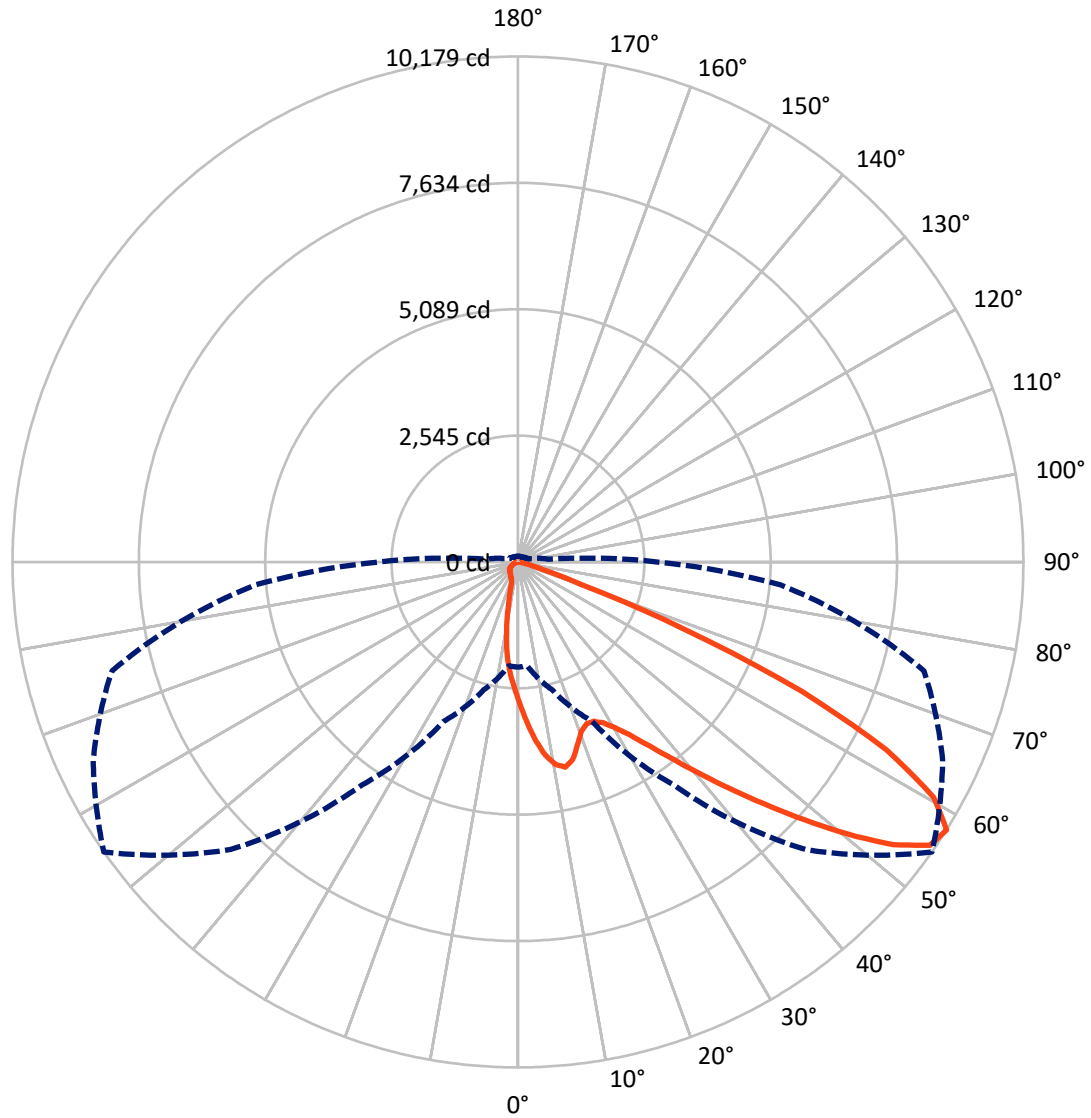
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	910.8	0.0	910.8
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	10751.3	0.0	10751.3
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	11662.0	0.0	11662.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.5	2.2
10°-20°	631.6	5.4
20°-30°	1010.6	8.7
30°-40°	1710.4	14.7
40°-50°	2808.2	24.1
50°-60°	3086.4	26.5
60°-70°	1770.3	15.2
70°-80°	361.7	3.1
80°-90°	21.3	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°	11662.0	100.0
0°-180°	11662.0	100.0

**Coefficient of Utilization**



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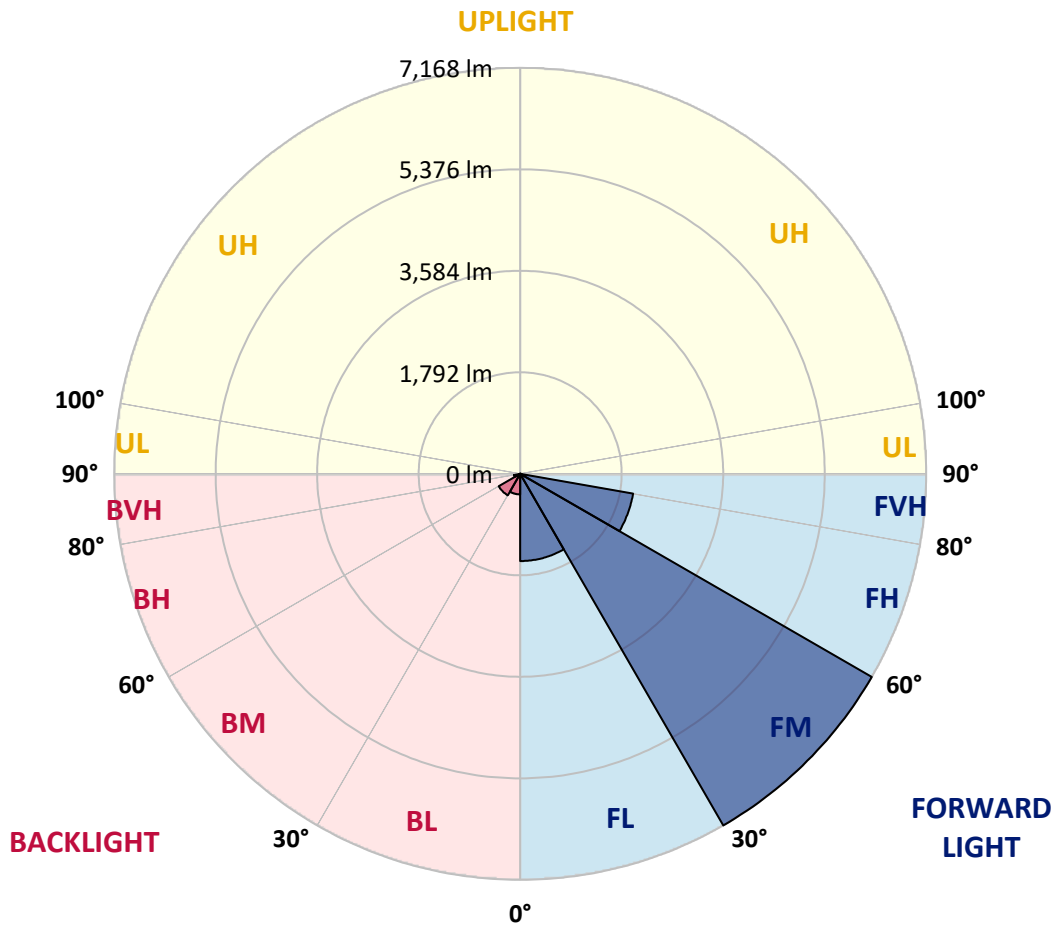
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1540.0	13.2			
FM (30°-60°)	7167.6	61.5			
FH (60°-80°)	2023.8	17.4			G2/5000
FVH (80°-90°)	19.9	0.2			G1/100
BL (0°-30°)	363.6	3.1	B1/500		
BM (30°-60°)	437.4	3.8	B1/1000		
BH (60°-80°)	108.3	0.9	B0/110		G0/110
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3
2.5°	3486.9	3443.1	3436.6	3428.0	3344.5	3282.0	3191.4	3092.1	2980.7	2867.1
5°	4028.4	3993.9	3987.4	3947.2	3852.2	3745.8	3584.7	3381.2	3173.4	2928.9
7.5°	4133.4	4126.9	4156.4	4155.0	4142.0	4057.9	3922.0	3679.7	3367.6	3005.1
10°	3665.3	3681.8	3769.5	3846.5	4054.3	4175.1	4145.6	3945.7	3567.5	3092.1
12.5°	3238.8	3219.4	3282.0	3369.0	3610.6	3970.2	4238.4	4167.9	3796.1	3190.7
15°	2971.3	2963.4	2998.7	3038.9	3223.0	3585.4	4130.5	4348.4	4016.2	3307.2
17.5°	2885.8	2879.3	2890.1	2900.1	3019.5	3300.0	3873.8	4459.2	4226.9	3440.2
20°	2955.5	2946.9	2945.4	2937.5	2987.2	3178.4	3641.5	4467.1	4416.0	3561.0
22.5°	3159.0	3149.0	3113.7	3082.1	3086.4	3195.0	3538.0	4388.0	4558.4	3673.9
25°	3527.9	3511.4	3438.0	3331.6	3264.0	3310.0	3553.8	4283.7	4694.3	3762.3
27.5°	3989.6	3968.0	3873.8	3715.6	3561.0	3504.9	3668.1	4211.8	4807.2	3829.9
30°	4441.9	4413.9	4321.1	4198.1	3972.3	3795.4	3874.5	4243.4	4941.7	3900.4
32.5°	4930.2	4903.6	4780.6	4628.1	4441.2	4203.2	4157.1	4398.0	5106.4	3998.9
35°	5547.9	5506.2	5331.4	5123.6	4925.1	4684.2	4539.7	4664.8	5325.7	4149.2
37.5°	6251.2	6195.1	6006.7	5719.7	5460.9	5191.2	5005.7	5031.6	5647.1	4350.6
40°	6914.2	6863.1	6689.1	6418.7	6093.7	5766.5	5568.7	5511.2	6090.8	4595.8
42.5°	7311.8	7265.8	7192.5	7078.1	6804.2	6470.5	6221.0	6096.6	6615.7	4889.2
45°	7334.1	7293.9	7392.4	7525.4	7471.5	7249.3	6945.1	6717.1	7142.9	5164.6
47.5°	6977.5	6950.1	7249.3	7713.8	7945.4	8038.9	7758.4	7286.0	7577.9	5362.4
50°	6005.2	5995.2	6610.7	7463.6	8125.9	8730.6	8616.3	7815.2	7915.2	5464.5
52.5°	5207.0	5170.4	5529.2	6662.5	7863.4	9094.5	9454.8	8334.4	8151.0	5483.9
55°	3949.3	3917.0	4367.1	5322.1	7017.0	8965.1	10068.2	8870.1	8320.0	5434.3
57.5°	2118.5	2098.3	2667.2	3542.3	5485.3	8188.4	10178.9	9436.8	8462.4	5302.7
60°	824.8	821.2	1034.1	1718.7	3333.8	6661.8	9620.2	9776.9	8551.6	5140.9
62.5°	499.1	509.8	544.4	771.6	1472.7	4138.4	8332.2	9390.0	8611.3	4992.7
65°	412.8	413.5	417.8	530.0	705.4	1731.6	6272.7	8117.2	8463.8	4728.8
67.5°	353.8	360.3	376.8	420.7	497.6	759.4	3611.3	6287.8	7567.1	4114.7
70°	279.0	287.6	308.5	345.9	384.0	475.3	1334.7	4183.7	5780.9	3101.5
72.5°	235.1	234.4	245.2	281.2	304.9	334.4	513.4	2344.3	3359.6	1480.6
75°	181.9	189.1	202.8	235.1	249.5	242.3	278.3	856.5	1203.8	448.7
77.5°	142.4	148.1	160.4	192.0	206.4	171.9	160.4	306.3	386.9	161.1
80°	64.0	69.0	109.3	141.7	168.3	118.7	87.0	156.8	171.9	73.3
82.5°	11.5	19.4	64.0	74.8	86.3	76.9	45.3	81.3	84.1	29.5
85°	0.7	1.4	22.3	27.3	34.5	25.2	13.7	32.4	28.0	10.1
87.5°	0.0	0.0	0.0	0.7	0.7	3.6	4.3	5.8	4.3	3.6
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°
2810.3	0°	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3
2816.7	2.5°	2765.0	2662.8	2563.6	2482.3	2434.9	2354.3	2301.1	2292.5	2270.2	2289.6
2823.9	5°	2711.7	2529.1	2344.3	2178.9	2043.0	1867.5	1736.6	1681.3	1633.1	1649.6
2842.6	7.5°	2686.6	2398.2	2110.6	1828.0	1537.4	1257.0	1048.5	961.4	895.3	904.6
2863.5	10°	2652.8	2262.3	1811.4	1380.0	990.9	714.1	570.2	517.0	487.6	488.3
2894.4	12.5°	2626.9	2099.8	1464.1	935.6	603.3	455.9	411.3	398.4	389.8	390.5
2941.1	15°	2613.9	1908.5	1121.1	623.5	431.5	386.2	375.4	369.6	363.9	363.1
2992.9	17.5°	2592.4	1695.6	820.5	455.2	377.5	361.7	352.4	345.9	338.7	337.3
3037.5	20°	2560.0	1454.0	599.7	384.7	353.8	341.6	328.6	320.0	311.4	309.9
3065.5	22.5°	2500.3	1198.7	460.9	356.0	336.5	322.9	307.1	297.0	288.4	286.9
3051.9	25°	2389.6	959.3	388.3	338.0	321.4	304.9	287.6	274.0	266.1	264.6
3022.4	27.5°	2249.4	753.6	352.4	321.4	302.0	286.9	267.5	254.6	247.4	245.9
2983.6	30°	2084.0	580.3	331.5	302.7	279.0	266.1	248.8	238.0	233.7	233.7
2956.2	32.5°	1905.6	463.8	322.9	284.0	258.9	244.5	230.8	226.5	225.1	224.4
2971.3	35°	1738.1	402.7	318.6	268.9	240.9	227.2	221.5	222.2	225.1	225.1
3018.1	37.5°	1589.2	383.3	316.4	258.2	225.1	212.9	216.5	222.9	220.0	220.0
3100.1	40°	1454.7	385.4	315.0	250.2	212.1	204.9	212.1	207.1	199.9	199.2
3200.0	42.5°	1351.9	403.4	312.1	243.8	204.2	199.2	196.3	188.4	187.7	189.1
3303.6	45°	1277.1	419.2	311.4	240.9	195.6	186.2	182.7	174.7	189.1	192.7
3346.0	47.5°	1188.7	419.2	311.4	230.8	181.2	177.6	171.9	163.2	177.6	181.2
3305.7	50°	1074.3	392.6	299.1	219.3	169.7	167.6	157.5	146.7	143.8	146.0
3211.5	52.5°	929.8	344.5	268.2	203.5	158.2	153.9	141.7	133.8	131.6	131.6
3042.5	55°	765.1	288.4	226.5	180.5	146.0	138.1	129.4	125.8	123.7	122.2
2805.9	57.5°	622.0	236.6	181.9	160.4	134.5	124.4	121.5	117.2	113.6	111.5
2608.2	60°	510.6	186.2	150.3	142.4	123.0	113.6	112.9	107.1	97.8	96.4
2445.0	62.5°	394.1	136.6	126.6	123.7	111.5	103.6	102.1	90.6	76.2	73.3
2213.4	65°	278.3	106.4	102.1	108.6	99.2	92.0	88.4	71.2	56.1	53.9
1852.4	67.5°	195.6	89.2	80.5	94.9	86.3	76.9	74.8	60.4	46.7	45.3
1400.8	70°	139.5	72.6	66.2	81.3	69.0	67.6	63.3	50.3	38.1	36.7
693.2	72.5°	98.5	55.4	51.1	70.5	47.5	58.2	51.8	38.8	28.8	27.3
235.9	75°	72.6	39.6	36.0	41.0	34.5	43.9	36.7	25.9	18.0	17.3
106.4	77.5°	53.2	25.2	21.6	20.1	20.1	27.3	20.1	10.8	7.9	7.2
53.9	80°	37.4	11.5	10.1	8.6	7.9	6.5	2.9	1.4	0.7	0.7
18.7	82.5°	22.3	5.0	5.0	3.6	2.2	0.0	0.0	0.0	0.0	0.0
7.2	85°	5.0	2.2	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
2.9	87.5°	0.7	0.7	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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