

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: P947751

Luminaire Tested: **GALN-SB3A-735-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947751  
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-SB3A-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

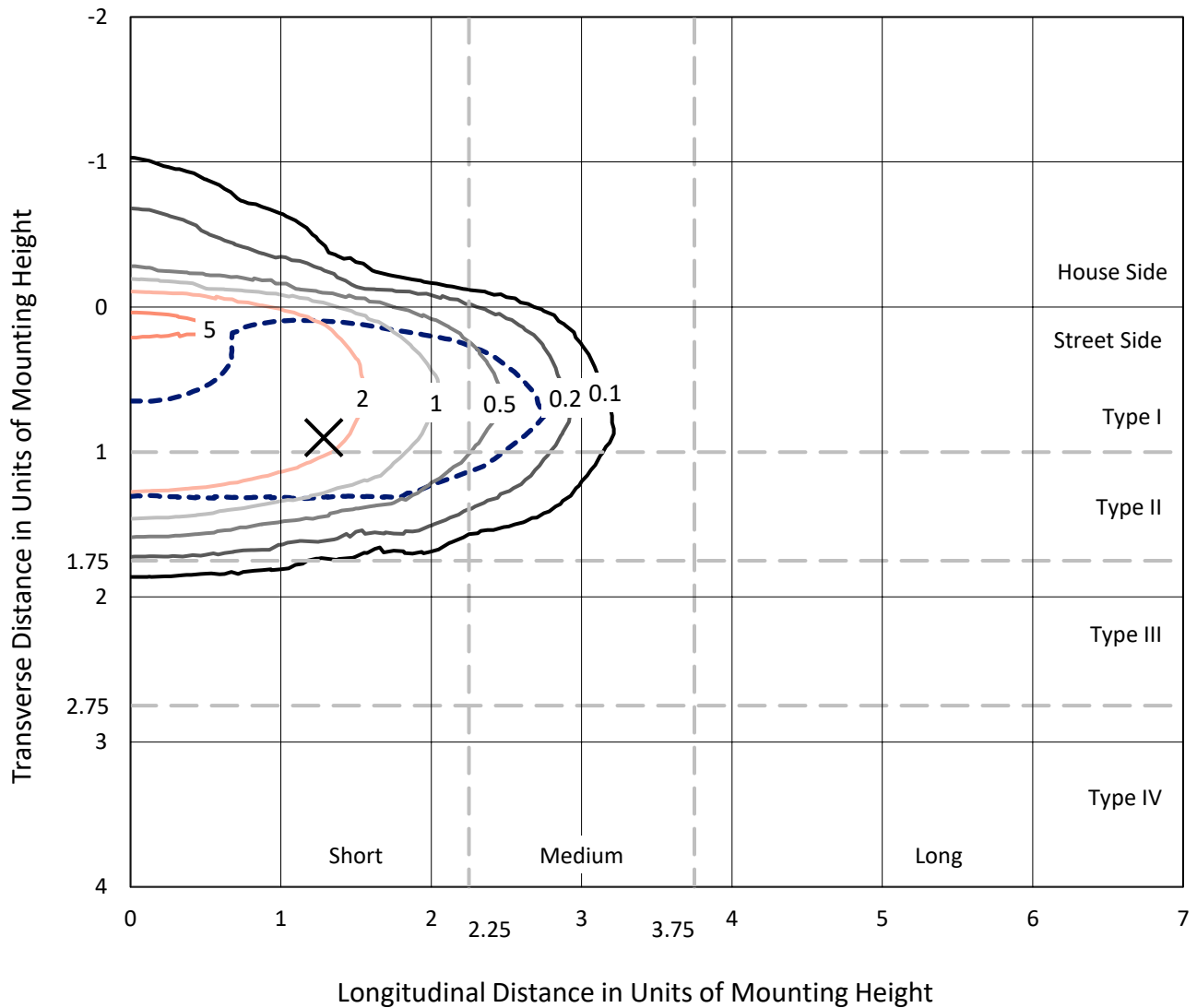
Lumens per Lamp: N/A  
Luminaire Lumens: 11475 lumens  
Efficiency: N/A  
Efficacy: 135.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

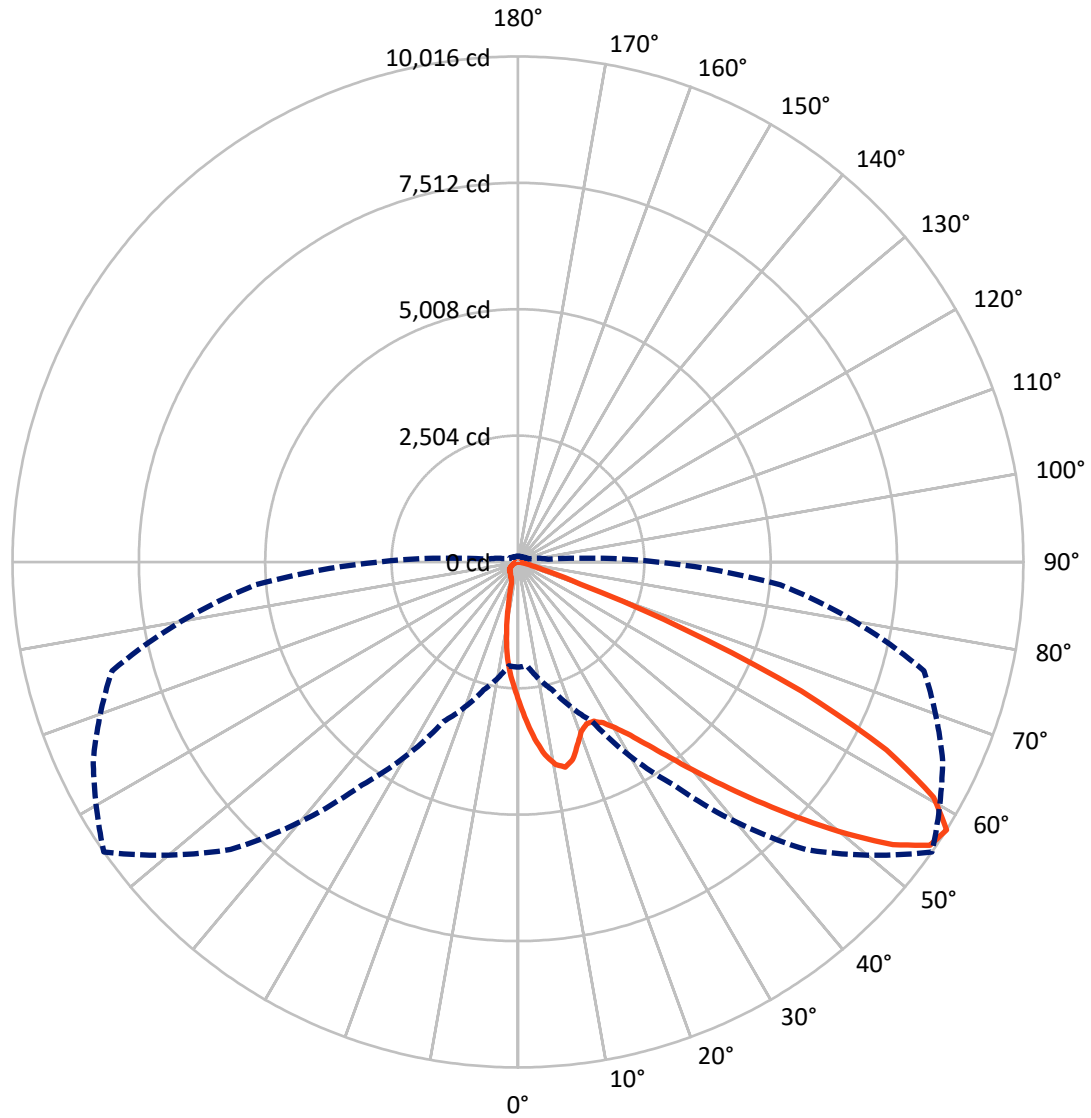
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P947751  
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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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 CATALOG NUMBER: GALN-SB3A-735-U-AFL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	896.1	0.0	896.1
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	10578.8	0.0	10578.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	11475.0	0.0	11475.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.3	2.2
10°-20°	621.5	5.4
20°-30°	994.4	8.7
30°-40°	1683.0	14.7
40°-50°	2763.1	24.1
50°-60°	3036.9	26.5
60°-70°	1741.9	15.2
70°-80°	355.9	3.1
80°-90°	21.0	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°	11475.0	100.0
0°-180°	11475.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P947751

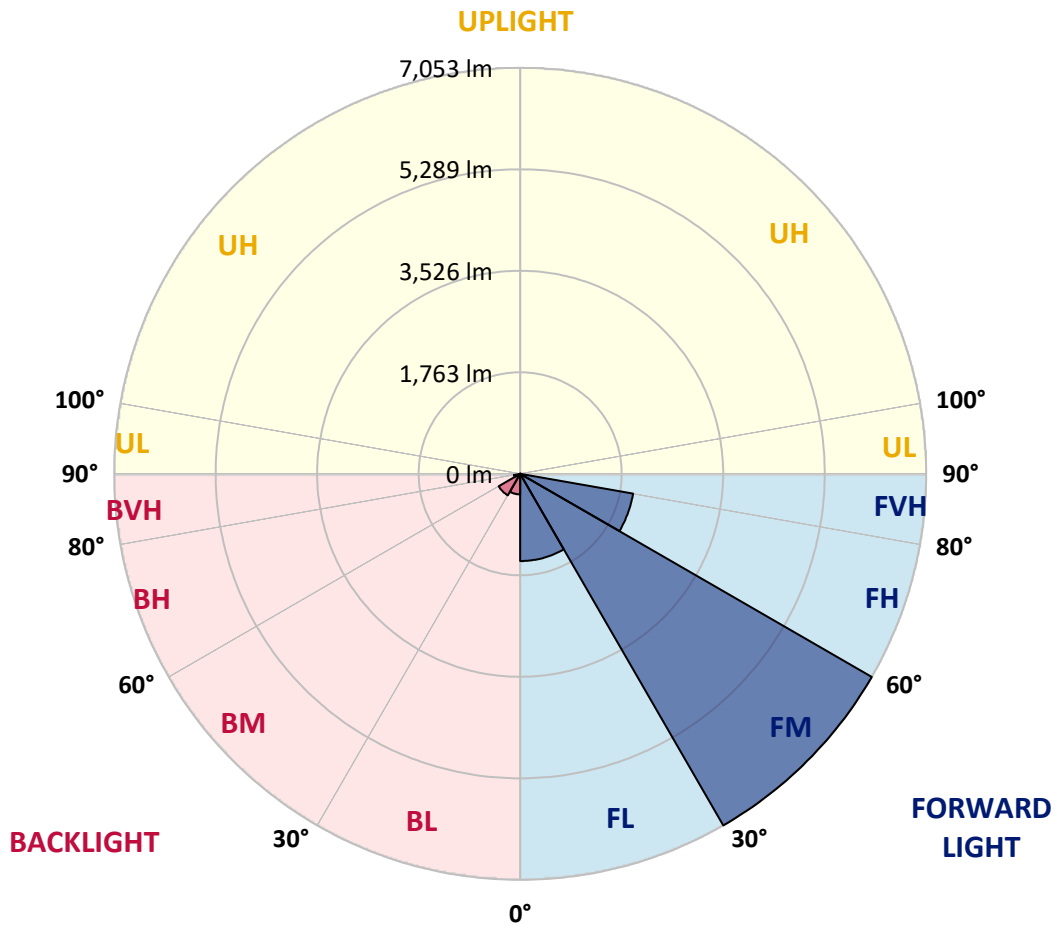
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1515.3	13.2			
FM (30°-60°)	7052.6	61.5			
FH (60°-80°)	1991.3	17.4			G2/5000
FVH (80°-90°)	19.6	0.2			G1/100
BL (0°-30°)	357.8	3.1	B1/500		
BM (30°-60°)	430.4	3.8	B1/1000		
BH (60°-80°)	106.6	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



REPORT NUMBER: P947751

CATALOG NUMBER: GALN-SB3A-735-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2
2.5°	3431.0	3387.9	3381.5	3373.0	3290.9	3229.4	3140.2	3042.6	2932.9	2821.1
5°	3963.8	3929.9	3923.5	3883.9	3790.5	3685.7	3527.2	3327.0	3122.5	2881.9
7.5°	4067.1	4060.8	4089.8	4088.4	4075.6	3992.8	3859.1	3620.6	3313.6	2956.9
10°	3606.5	3622.8	3709.1	3784.8	3989.3	4108.2	4079.2	3882.4	3510.3	3042.6
12.5°	3186.9	3167.8	3229.4	3315.0	3552.7	3906.5	4170.4	4101.1	3735.3	3139.5
15°	2923.7	2915.9	2950.6	2990.2	3171.3	3528.0	4064.3	4278.7	3951.8	3254.1
17.5°	2839.5	2833.1	2843.7	2853.6	2971.1	3247.0	3811.7	4387.7	4159.1	3385.0
20°	2908.1	2899.6	2898.2	2890.4	2939.3	3127.5	3583.1	4395.4	4345.2	3503.9
22.5°	3108.4	3098.5	3063.8	3032.7	3036.9	3143.7	3481.3	4317.6	4485.3	3615.0
25°	3471.3	3455.1	3382.9	3278.2	3211.7	3257.0	3496.8	4215.0	4619.0	3702.0
27.5°	3925.6	3904.4	3811.7	3656.0	3503.9	3448.7	3609.3	4144.3	4730.1	3768.5
30°	4370.7	4343.1	4251.8	4130.8	3908.6	3734.6	3812.4	4175.4	4862.4	3837.9
32.5°	4851.1	4824.9	4703.9	4553.9	4370.0	4135.8	4090.5	4327.5	5024.5	3934.8
35°	5458.9	5417.9	5245.9	5041.5	4846.2	4609.1	4466.9	4590.0	5240.3	4082.7
37.5°	6150.9	6095.7	5910.4	5628.0	5373.3	5108.0	4925.4	4950.9	5556.6	4280.8
40°	6803.3	6753.1	6581.8	6315.8	5996.0	5674.0	5479.4	5422.8	5993.1	4522.1
42.5°	7194.6	7149.3	7077.1	6964.6	6695.0	6366.7	6121.2	5998.8	6509.7	4810.8
45°	7216.5	7176.9	7273.8	7404.7	7351.7	7133.0	6833.7	6609.4	7028.3	5081.8
47.5°	6865.6	6838.7	7133.0	7590.1	7818.0	7909.9	7634.0	7169.1	7456.4	5276.4
50°	5908.9	5899.0	6504.7	7343.9	7995.6	8590.6	8478.1	7689.9	7788.2	5376.8
52.5°	5123.5	5087.4	5440.5	6555.7	7737.3	8948.7	9303.2	8200.8	8020.3	5395.9
55°	3886.0	3854.1	4297.1	5236.7	6904.5	8821.3	9906.7	8727.9	8186.6	5347.1
57.5°	2084.5	2064.7	2624.4	3485.5	5397.4	8057.1	10015.7	9285.5	8326.7	5217.6
60°	811.6	808.0	1017.5	1691.1	3280.3	6554.9	9465.9	9620.2	8414.4	5058.4
62.5°	491.1	501.7	535.6	759.2	1449.1	4072.1	8198.6	9239.5	8473.2	4912.7
65°	406.1	406.9	411.1	521.5	694.1	1703.8	6172.2	7987.1	8328.1	4653.0
67.5°	348.1	354.5	370.8	413.9	489.6	747.2	3553.4	6187.0	7445.8	4048.7
70°	274.5	283.0	303.5	340.3	377.8	467.7	1313.3	4116.7	5688.2	3051.8
72.5°	231.4	230.7	241.3	276.7	300.0	329.0	505.2	2306.7	3305.8	1456.9
75°	179.0	186.1	199.5	231.4	245.5	238.5	273.8	842.7	1184.5	441.5
77.5°	140.1	145.8	157.8	188.9	203.1	169.1	157.8	301.4	380.7	158.5
80°	63.0	67.9	107.6	139.4	165.6	116.7	85.6	154.3	169.1	72.2
82.5°	11.3	19.1	63.0	73.6	84.9	75.7	44.6	80.0	82.8	29.0
85°	0.7	1.4	21.9	26.9	34.0	24.8	13.4	31.8	27.6	9.9
87.5°	0.0	0.0	0.0	0.7	0.7	3.5	4.2	5.7	4.2	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947751  
 CATALOG NUMBER: GALN-SB3A-735-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2765.2	0°	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2
2771.6	2.5°	2720.6	2620.1	2522.5	2442.5	2395.8	2316.6	2264.2	2255.7	2233.8	2252.9
2778.6	5°	2668.3	2488.5	2306.7	2143.9	2010.2	1837.6	1708.8	1654.3	1606.9	1623.2
2797.0	7.5°	2643.5	2359.8	2076.7	1798.6	1512.8	1236.8	1031.6	946.0	880.9	890.1
2817.6	10°	2610.2	2226.0	1782.4	1357.8	975.0	702.6	561.1	508.7	479.7	480.4
2848.0	12.5°	2584.8	2066.1	1440.6	920.6	593.7	448.6	404.7	392.0	383.5	384.2
2894.0	15°	2572.0	1877.9	1103.1	613.5	424.5	380.0	369.4	363.7	358.0	357.3
2944.9	17.5°	2550.8	1668.5	807.3	447.9	371.5	355.9	346.7	340.3	333.3	331.9
2988.8	20°	2519.0	1430.7	590.1	378.6	348.1	336.1	323.4	314.9	306.4	305.0
3016.4	22.5°	2460.2	1179.5	453.6	350.2	331.1	317.7	302.1	292.2	283.7	282.3
3002.9	25°	2351.3	943.9	382.1	332.6	316.3	300.0	283.0	269.6	261.8	260.4
2973.9	27.5°	2213.3	741.5	346.7	316.3	297.2	282.3	263.2	250.5	243.4	242.0
2935.7	30°	2050.5	571.0	326.2	297.9	274.5	261.8	244.8	234.2	230.0	230.0
2908.8	32.5°	1875.1	456.4	317.7	279.5	254.7	240.6	227.1	222.9	221.5	220.8
2923.7	35°	1710.2	396.2	313.5	264.6	237.0	223.6	217.9	218.6	221.5	221.5
2969.7	37.5°	1563.7	377.1	311.3	254.0	221.5	209.4	213.0	219.3	216.5	216.5
3050.3	40°	1431.4	379.3	309.9	246.2	208.7	201.7	208.7	203.8	196.7	196.0
3148.7	42.5°	1330.2	396.9	307.1	239.9	201.0	196.0	193.2	185.4	184.7	186.1
3250.6	45°	1256.6	412.5	306.4	237.0	192.5	183.3	179.7	171.9	186.1	189.6
3292.3	47.5°	1169.6	412.5	306.4	227.1	178.3	174.8	169.1	160.6	174.8	178.3
3252.7	50°	1057.1	386.3	294.4	215.8	167.0	164.9	155.0	144.3	141.5	143.6
3160.0	52.5°	914.9	338.9	263.9	200.2	155.7	151.4	139.4	131.6	129.5	129.5
2993.7	55°	752.9	283.7	222.9	177.6	143.6	135.9	127.4	123.8	121.7	120.3
2760.9	57.5°	612.0	232.8	179.0	157.8	132.3	122.4	119.6	115.3	111.8	109.7
2566.4	60°	502.4	183.3	147.9	140.1	121.0	111.8	111.1	105.4	96.2	94.8
2405.7	62.5°	387.7	134.4	124.5	121.7	109.7	101.9	100.5	89.2	75.0	72.2
2177.9	65°	273.8	104.7	100.5	106.8	97.6	90.6	87.0	70.0	55.2	53.1
1822.7	67.5°	192.5	87.7	79.2	93.4	84.9	75.7	73.6	59.4	46.0	44.6
1378.4	70°	137.3	71.5	65.1	80.0	67.9	66.5	62.3	49.5	37.5	36.1
682.1	72.5°	96.9	54.5	50.2	69.3	46.7	57.3	50.9	38.2	28.3	26.9
232.1	75°	71.5	38.9	35.4	40.3	34.0	43.2	36.1	25.5	17.7	17.0
104.7	77.5°	52.4	24.8	21.2	19.8	19.8	26.9	19.8	10.6	7.8	7.1
53.1	80°	36.8	11.3	9.9	8.5	7.8	6.4	2.8	1.4	0.7	0.7
18.4	82.5°	21.9	5.0	5.0	3.5	2.1	0.0	0.0	0.0	0.0	0.0
7.1	85°	5.0	2.1	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
2.8	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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