

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: P947898

Luminaire Tested: **GALN-SB3A-840-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947898  
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-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

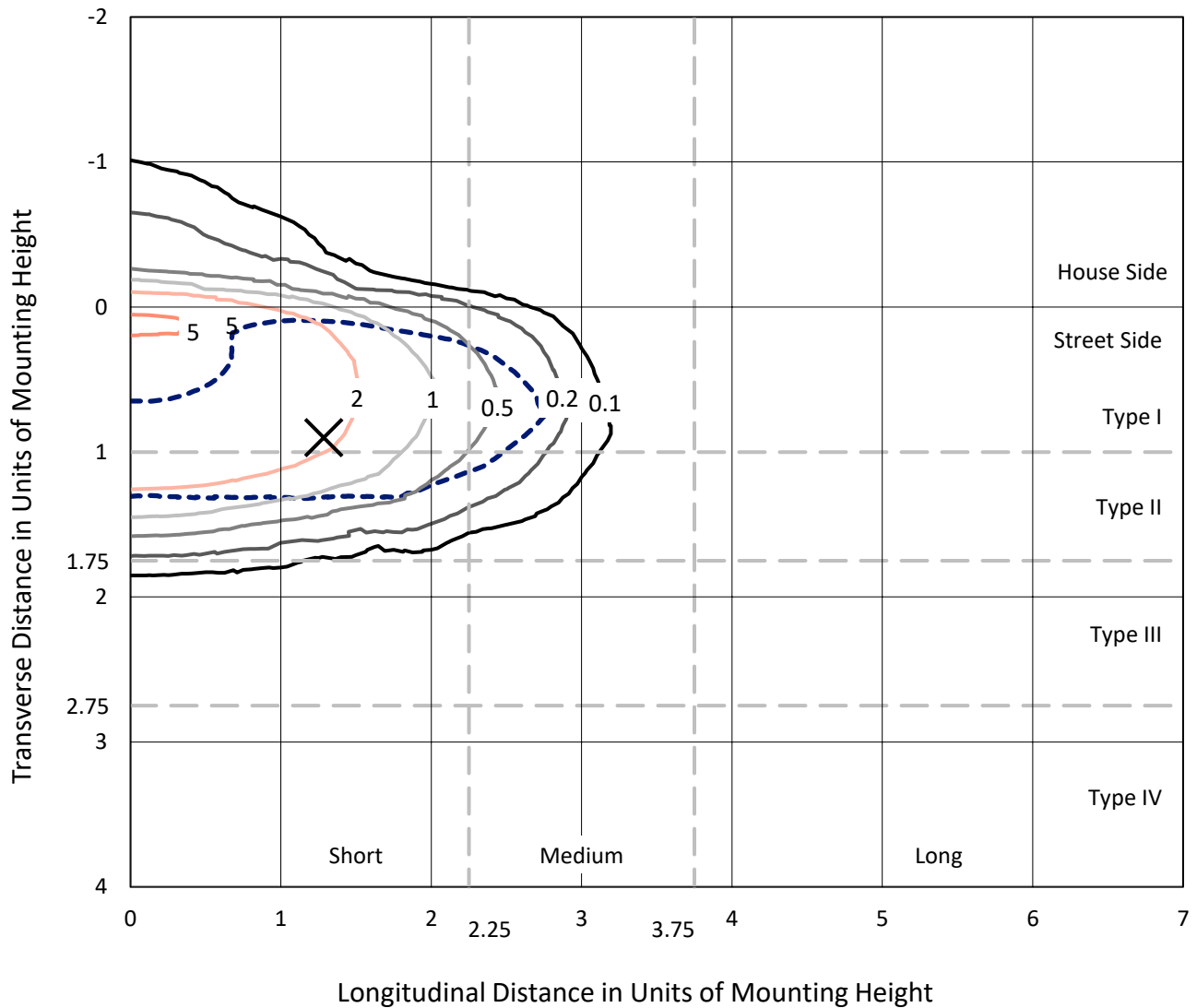
Lumens per Lamp: N/A  
Luminaire Lumens: 10976 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

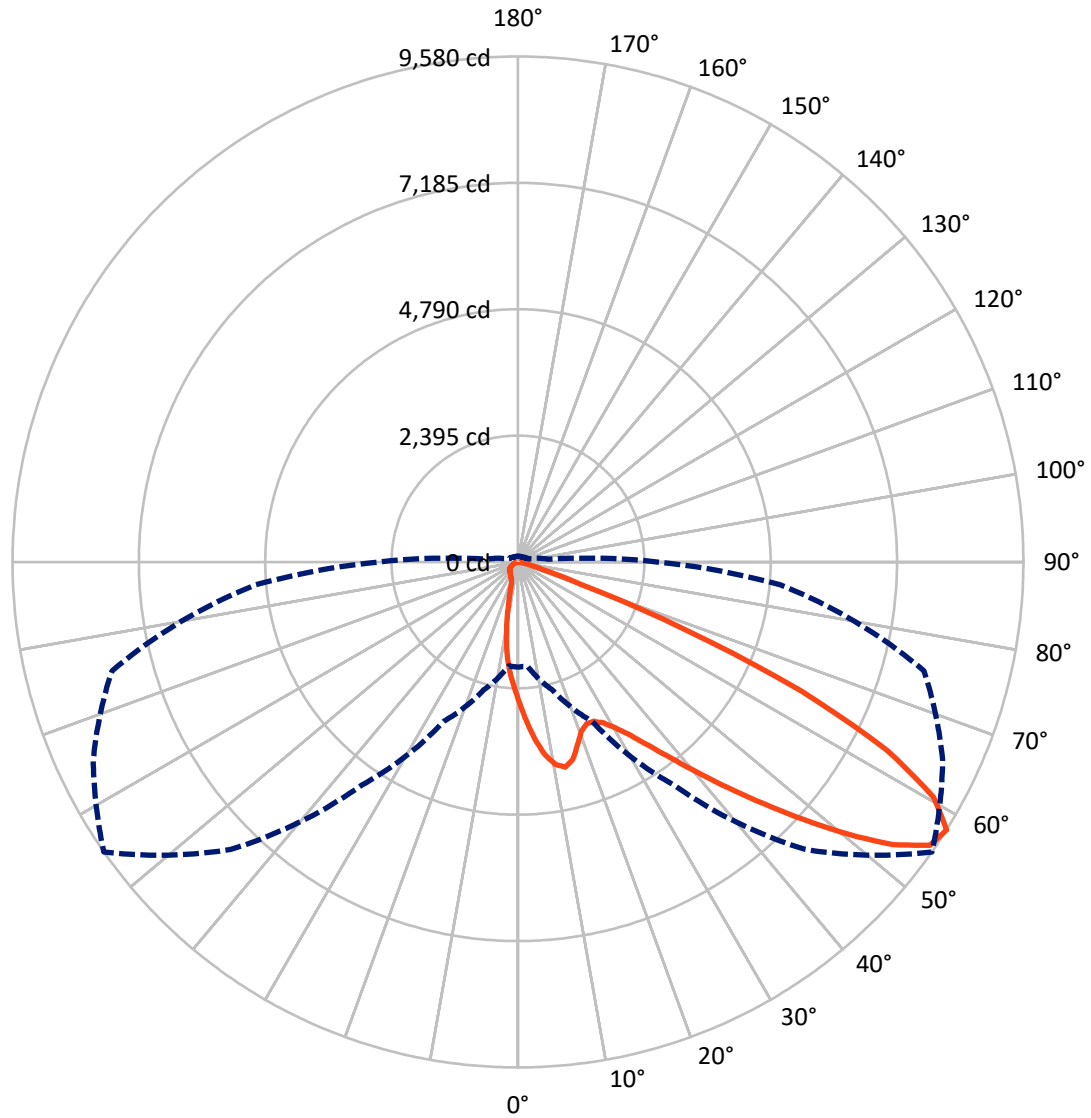
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	857.2	0.0	857.2
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	10118.8	0.0	10118.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	10976.0	0.0	10976.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.1	2.2
10°-20°	594.4	5.4
20°-30°	951.1	8.7
30°-40°	1609.8	14.7
40°-50°	2643.0	24.1
50°-60°	2904.8	26.5
60°-70°	1666.2	15.2
70°-80°	340.5	3.1
80°-90°	20.1	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°	10976.0	100.0
0°-180°	10976.0	100.0

**Coefficient of Utilization**



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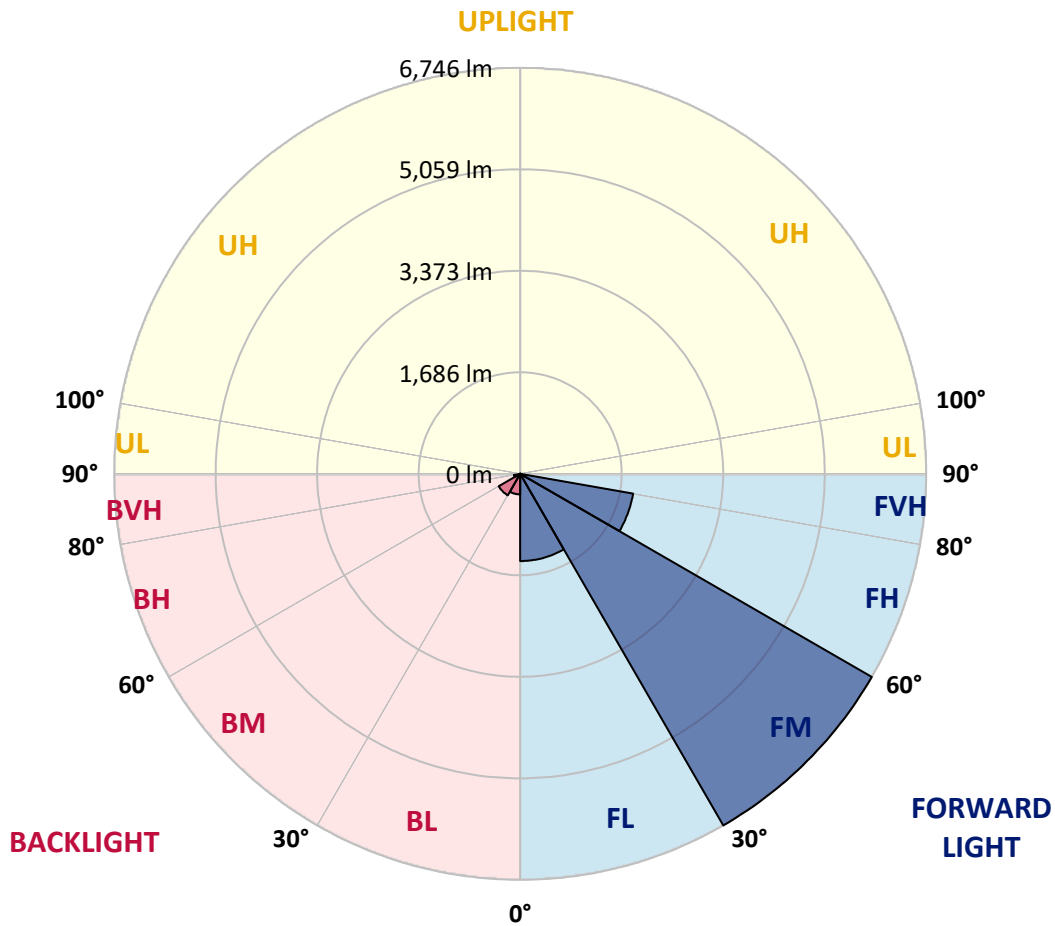
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1449.4	13.2			
FM (30°-60°)	6745.9	61.5			
FH (60°-80°)	1904.7	17.4			G2/5000
FVH (80°-90°)	18.7	0.2			G1/100
BL (0°-30°)	342.2	3.1	B1/500		
BM (30°-60°)	411.7	3.8	B1/1000		
BH (60°-80°)	101.9	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°	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9
2.5°	3281.8	3240.5	3234.4	3226.3	3147.8	3088.9	3003.7	2910.3	2805.3	2698.4
5°	3791.4	3759.0	3752.9	3715.0	3625.6	3525.5	3373.9	3182.3	2986.7	2756.6
7.5°	3890.3	3884.2	3911.9	3910.6	3898.4	3819.2	3691.3	3463.2	3169.5	2828.4
10°	3449.7	3465.2	3547.8	3620.2	3815.8	3929.5	3901.8	3713.6	3357.6	2910.3
12.5°	3048.3	3030.0	3088.9	3170.8	3398.2	3736.6	3989.1	3922.7	3572.8	3003.0
15°	2796.5	2789.1	2822.3	2860.2	3033.4	3374.5	3887.6	4092.6	3779.9	3112.6
17.5°	2716.0	2709.9	2720.1	2729.5	2841.9	3105.8	3645.9	4196.9	3978.2	3237.8
20°	2781.7	2773.5	2772.2	2764.7	2811.4	2991.5	3427.3	4204.3	4156.2	3351.5
22.5°	2973.2	2963.7	2930.6	2900.8	2904.8	3007.0	3329.9	4129.9	4290.3	3457.8
25°	3320.4	3304.8	3235.8	3135.6	3072.0	3115.3	3344.8	4031.7	4418.2	3541.0
27.5°	3754.9	3734.6	3645.9	3497.0	3351.5	3298.7	3452.4	3964.0	4524.4	3604.7
30°	4180.6	4154.2	4066.9	3951.2	3738.7	3572.2	3646.6	3993.8	4651.0	3671.0
32.5°	4640.2	4615.1	4499.4	4355.9	4179.9	3955.9	3912.6	4139.3	4806.0	3763.7
35°	5221.5	5182.3	5017.8	4822.2	4635.4	4408.7	4272.7	4390.4	5012.4	3905.2
37.5°	5883.4	5830.7	5653.3	5383.3	5139.6	4885.8	4711.2	4735.6	5314.9	4094.7
40°	6507.5	6459.4	6295.6	6041.1	5735.2	5427.3	5241.2	5187.0	5732.5	4325.4
42.5°	6881.7	6838.4	6769.4	6661.8	6403.9	6089.9	5855.0	5737.9	6226.6	4601.6
45°	6902.7	6864.8	6957.5	7082.7	7032.0	6822.8	6536.6	6322.0	6722.7	4860.8
47.5°	6567.0	6541.3	6822.8	7260.1	7478.0	7566.0	7302.0	6857.4	7132.1	5046.9
50°	5652.0	5642.5	6221.8	7024.5	7647.9	8217.1	8109.5	7355.5	7449.6	5143.0
52.5°	4900.7	4866.2	5203.9	6270.6	7400.8	8559.5	8898.6	7844.1	7671.6	5161.3
55°	3717.0	3686.5	4110.2	5009.0	6604.2	8437.7	9475.9	8348.4	7830.6	5114.6
57.5°	1993.9	1974.9	2510.3	3333.9	5162.7	7706.8	9580.1	8881.7	7964.6	4990.7
60°	776.3	772.9	973.2	1617.6	3137.7	6269.9	9054.3	9201.8	8048.5	4838.5
62.5°	469.7	479.9	512.3	726.2	1386.1	3895.0	7842.1	8837.7	8104.7	4699.0
65°	388.5	389.2	393.2	498.8	663.9	1629.7	5903.8	7639.8	7966.0	4450.7
67.5°	333.0	339.1	354.6	395.9	468.3	714.7	3398.9	5918.0	7122.0	3872.7
70°	262.6	270.7	290.3	325.5	361.4	447.4	1256.1	3937.6	5440.8	2919.1
72.5°	221.3	220.6	230.8	264.6	287.0	314.7	483.2	2206.4	3162.0	1393.5
75°	171.2	178.0	190.9	221.3	234.9	228.1	261.9	806.1	1133.0	422.3
77.5°	134.0	139.4	150.9	180.7	194.2	161.8	150.9	288.3	364.1	151.6
80°	60.2	65.0	102.9	133.3	158.4	111.7	81.9	147.5	161.8	69.0
82.5°	10.8	18.3	60.2	70.4	81.2	72.4	42.6	76.5	79.2	27.7
85°	0.7	1.4	21.0	25.7	32.5	23.7	12.9	30.5	26.4	9.5
87.5°	0.0	0.0	0.0	0.7	0.7	3.4	4.1	5.4	4.1	3.4
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°
2644.9	0°	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9
2651.0	2.5°	2602.3	2506.2	2412.8	2336.3	2291.7	2215.9	2165.8	2157.6	2136.7	2154.9
2657.8	5°	2552.2	2380.3	2206.4	2050.7	1922.8	1757.7	1634.5	1582.4	1537.0	1552.6
2675.4	7.5°	2528.5	2257.1	1986.4	1720.4	1447.0	1183.1	986.8	904.9	842.6	851.4
2695.0	10°	2496.7	2129.2	1704.9	1298.8	932.6	672.1	536.7	486.6	458.9	459.5
2724.1	12.5°	2472.4	1976.3	1378.0	880.5	567.8	429.1	387.1	374.9	366.8	367.5
2768.1	15°	2460.2	1796.2	1055.1	586.8	406.1	363.4	353.3	347.9	342.5	341.8
2816.9	17.5°	2439.9	1595.9	772.2	428.4	355.3	340.4	331.6	325.5	318.8	317.4
2858.8	20°	2409.4	1368.5	564.5	362.1	333.0	321.5	309.3	301.2	293.1	291.7
2885.2	22.5°	2353.2	1128.2	433.8	335.0	316.7	303.9	289.0	279.5	271.4	270.0
2872.4	25°	2249.0	902.9	365.5	318.1	302.5	287.0	270.7	257.9	250.4	249.1
2844.6	27.5°	2117.0	709.3	331.6	302.5	284.3	270.0	251.8	239.6	232.8	231.5
2808.1	30°	1961.4	546.2	312.0	284.9	262.6	250.4	234.2	224.0	220.0	220.0
2782.3	32.5°	1793.5	436.5	303.9	267.3	243.6	230.1	217.3	213.2	211.8	211.2
2796.5	35°	1635.8	379.0	299.8	253.1	226.7	213.9	208.5	209.1	211.8	211.8
2840.5	37.5°	1495.7	360.7	297.8	243.0	211.8	200.3	203.7	209.8	207.1	207.1
2917.7	40°	1369.2	362.8	296.4	235.5	199.7	192.9	199.7	194.9	188.2	187.5
3011.8	42.5°	1272.4	379.7	293.7	229.4	192.2	187.5	184.8	177.3	176.6	178.0
3109.2	45°	1202.0	394.6	293.1	226.7	184.1	175.3	171.9	164.5	178.0	181.4
3149.2	47.5°	1118.8	394.6	293.1	217.3	170.6	167.2	161.8	153.6	167.2	170.6
3111.3	50°	1011.1	369.5	281.5	206.4	159.7	157.7	148.2	138.1	135.4	137.4
3022.6	52.5°	875.1	324.2	252.4	191.5	148.9	144.8	133.3	125.9	123.9	123.9
2863.6	55°	720.1	271.4	213.2	169.9	137.4	129.9	121.8	118.4	116.4	115.1
2640.9	57.5°	585.4	222.7	171.2	150.9	126.6	117.1	114.4	110.3	106.9	104.9
2454.8	60°	480.5	175.3	141.5	134.0	115.7	106.9	106.3	100.8	92.0	90.7
2301.1	62.5°	370.9	128.6	119.1	116.4	104.9	97.5	96.1	85.3	71.7	69.0
2083.2	65°	261.9	100.2	96.1	102.2	93.4	86.6	83.2	67.0	52.8	50.8
1743.4	67.5°	184.1	83.9	75.8	89.3	81.2	72.4	70.4	56.9	44.0	42.6
1318.4	70°	131.3	68.4	62.3	76.5	65.0	63.6	59.6	47.4	35.9	34.5
652.4	72.5°	92.7	52.1	48.1	66.3	44.7	54.8	48.7	36.5	27.1	25.7
222.0	75°	68.4	37.2	33.8	38.6	32.5	41.3	34.5	24.4	16.9	16.2
100.2	77.5°	50.1	23.7	20.3	19.0	19.0	25.7	19.0	10.2	7.4	6.8
50.8	80°	35.2	10.8	9.5	8.1	7.4	6.1	2.7	1.4	0.7	0.7
17.6	82.5°	21.0	4.7	4.7	3.4	2.0	0.0	0.0	0.0	0.0	0.0
6.8	85°	4.7	2.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
2.7	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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