

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: P948129

Luminaire Tested: **GALN-SB3B-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948129
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-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 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: 15240 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

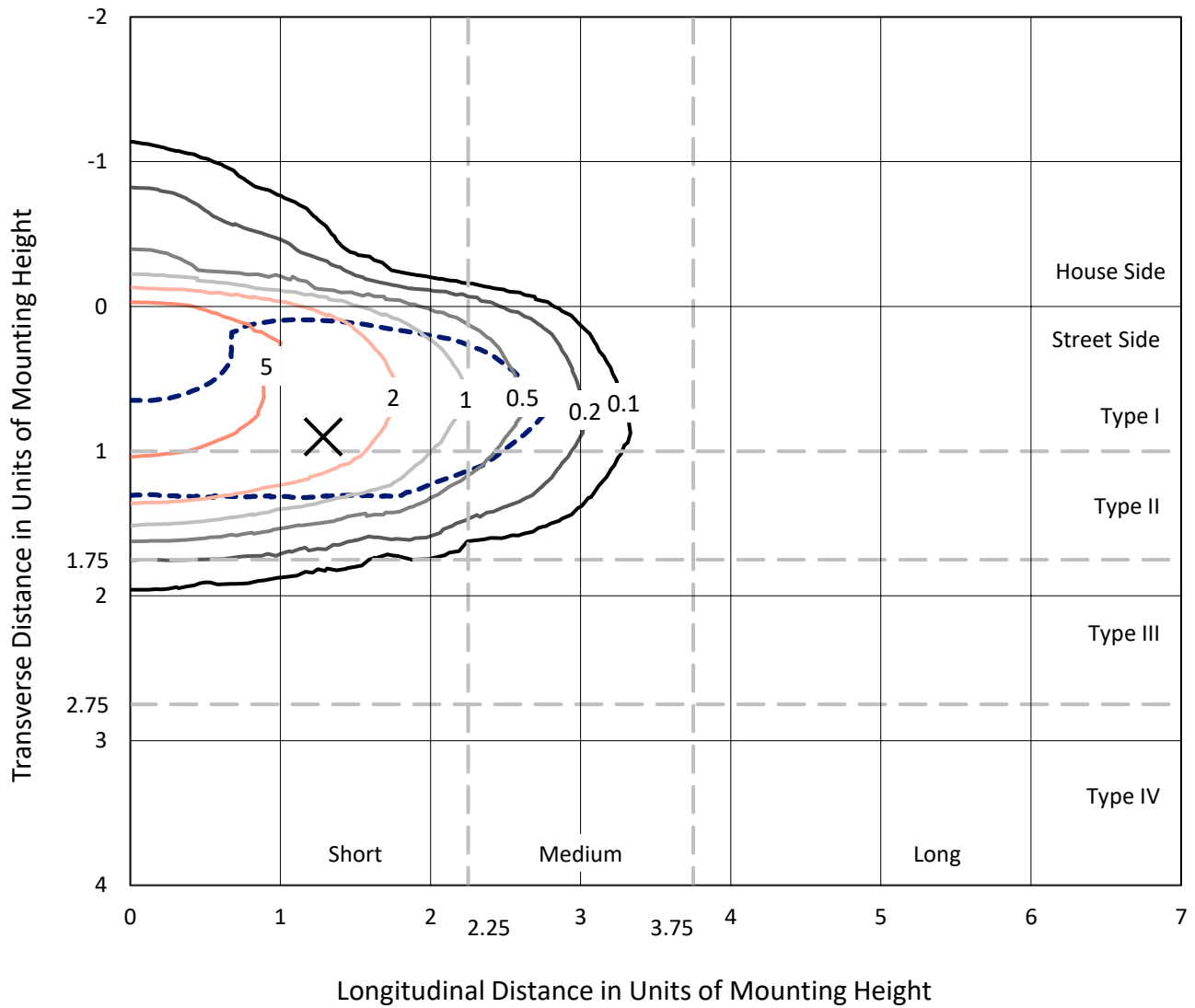
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P948129
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Iso-Footcandle Lines of Horizontal Illumination

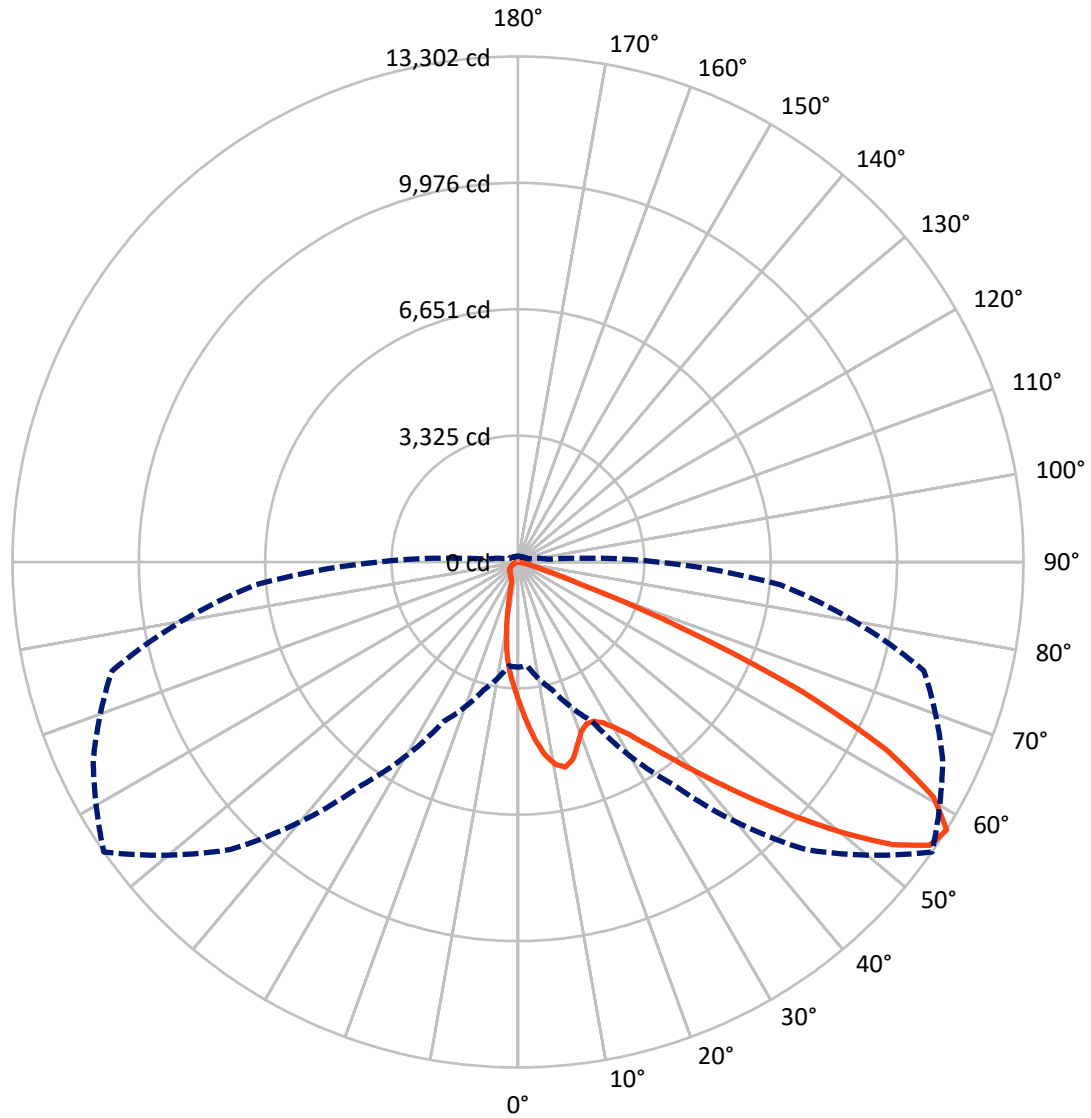
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

REPORT NUMBER: P948129
CATALOG NUMBER: GALN-SB3B-740-U-AFL-HSS

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
House Side	Lumens	1190.2	0.0	1190.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	14049.8	0.0	14049.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	15240.0	0.0	15240.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.7	2.2
10°-20°	825.4	5.4
20°-30°	1320.6	8.7
30°-40°	2235.2	14.7
40°-50°	3669.7	24.1
50°-60°	4033.3	26.5
60°-70°	2313.5	15.2
70°-80°	472.7	3.1
80°-90°	27.9	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°	15240.0	100.0
0°-180°	15240.0	100.0

Coefficient of Utilization



REPORT NUMBER: P948129

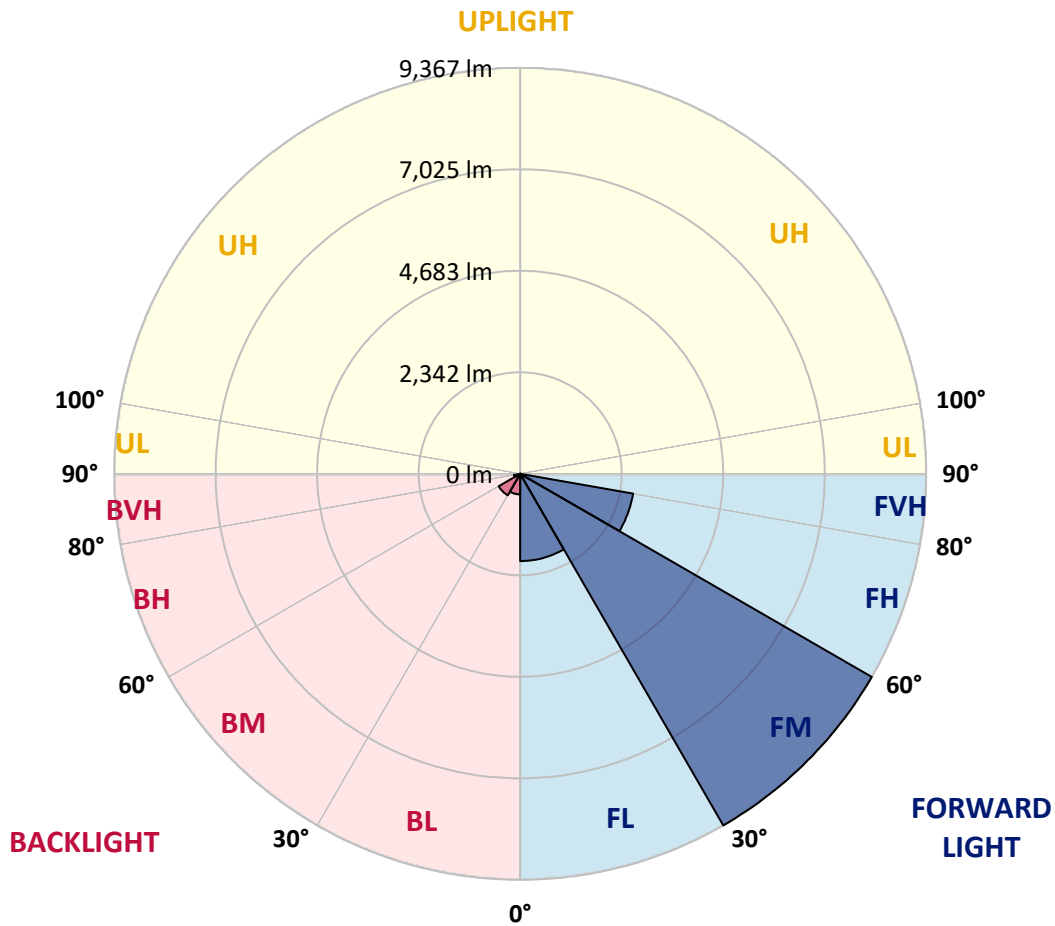
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2012.5	13.2			
FM (30°-60°)	9366.6	61.5			
FH (60°-80°)	2644.7	17.4			G2/5000
FVH (80°-90°)	26.0	0.2			G1/100
BL (0°-30°)	475.2	3.1	B1/500		
BM (30°-60°)	571.6	3.8	B1/1000		
BH (60°-80°)	141.5	0.9	B1/500		G1/500
BVH (80°-90°)	1.9	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: P948129

CATALOG NUMBER: GALN-SB3B-740-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5
2.5°	4556.8	4499.4	4491.0	4479.7	4370.7	4288.9	4170.5	4040.8	3895.2	3746.7
5°	5264.4	5219.3	5210.8	5158.2	5034.1	4895.1	4684.6	4418.6	4147.0	3827.5
7.5°	5401.6	5393.1	5431.6	5429.8	5412.8	5302.9	5125.3	4808.6	4400.8	3927.1
10°	4789.8	4811.4	4926.1	5026.6	5298.2	5456.1	5417.5	5156.3	4662.0	4040.8
12.5°	4232.5	4207.2	4288.9	4402.6	4718.4	5188.2	5538.8	5446.7	4960.8	4169.6
15°	3883.0	3872.6	3918.7	3971.3	4211.9	4685.5	5397.8	5682.5	5248.4	4321.8
17.5°	3771.1	3762.7	3776.8	3789.9	3945.9	4312.4	5062.3	5827.3	5523.7	4495.7
20°	3862.3	3851.0	3849.1	3838.8	3903.6	4153.6	4758.8	5837.6	5770.9	4653.5
22.5°	4128.2	4115.1	4069.0	4027.7	4033.3	4175.2	4623.5	5734.2	5956.9	4801.1
25°	4610.3	4588.7	4492.8	4353.8	4265.4	4325.6	4644.1	5598.0	6134.6	4916.7
27.5°	5213.6	5185.4	5062.3	4855.6	4653.5	4580.2	4793.6	5504.0	6282.1	5005.0
30°	5804.7	5768.1	5646.8	5486.1	5191.1	4959.9	5063.3	5545.3	6457.8	5097.1
32.5°	6442.8	6408.0	6247.3	6048.1	5803.8	5492.7	5432.6	5747.4	6673.0	5225.8
35°	7250.0	7195.5	6967.2	6695.6	6436.2	6121.4	5932.5	6096.0	6959.6	5422.2
37.5°	8169.1	8095.8	7849.6	7474.6	7136.3	6783.9	6541.5	6575.3	7379.7	5685.4
40°	9035.5	8968.8	8741.4	8388.0	7963.3	7535.7	7277.3	7202.1	7959.5	6005.8
42.5°	9555.2	9495.0	9399.2	9249.8	8891.7	8455.7	8129.6	7967.0	8645.5	6389.2
45°	9584.3	9531.7	9660.4	9834.3	9763.8	9473.4	9075.9	8778.0	9334.3	6749.1
47.5°	9118.2	9082.5	9473.4	10080.5	10383.1	10505.2	10138.7	9521.3	9902.9	7007.6
50°	7847.7	7834.5	8638.9	9753.5	10618.9	11409.3	11259.8	10213.0	10343.6	7141.0
52.5°	6804.6	6756.7	7225.6	8706.6	10275.9	11884.8	12355.6	10891.5	10651.8	7166.4
55°	5161.0	5118.7	5707.0	6954.9	9169.9	11715.6	13157.2	11591.6	10872.7	7101.5
57.5°	2768.4	2742.1	3485.5	4629.1	7168.3	10700.7	13301.9	12332.1	11058.7	6929.6
60°	1077.9	1073.2	1351.3	2246.0	4356.6	8705.7	12571.7	12776.6	11175.3	6718.1
62.5°	652.2	666.3	711.4	1008.3	1924.6	5408.1	10888.7	12271.0	11253.3	6524.5
65°	539.4	540.3	546.0	692.6	921.9	2262.9	8197.3	10607.7	11060.6	6179.7
67.5°	462.3	470.8	492.4	549.7	650.3	992.4	4719.3	8217.0	9888.8	5377.1
70°	364.6	375.9	403.1	452.0	501.8	621.2	1744.1	5467.3	7554.5	4053.1
72.5°	307.3	306.4	320.4	367.4	398.4	437.0	671.0	3063.5	4390.4	1934.9
75°	237.8	247.1	265.0	307.3	326.1	316.7	363.7	1119.2	1573.1	586.4
77.5°	186.1	193.6	209.6	250.9	269.7	224.6	209.6	400.3	505.6	210.5
80°	83.6	90.2	142.8	185.1	219.9	155.1	113.7	204.9	224.6	95.9
82.5°	15.0	25.4	83.6	97.7	112.8	100.6	59.2	106.2	109.9	38.5
85°	0.9	1.9	29.1	35.7	45.1	32.9	17.9	42.3	36.6	13.2
87.5°	0.0	0.0	0.0	0.9	0.9	4.7	5.6	7.5	5.6	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P948129
 CATALOG NUMBER: GALN-SB3B-740-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3672.5	0°	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5
3680.9	2.5°	3613.3	3479.8	3350.1	3243.9	3181.9	3076.7	3007.1	2995.9	2966.7	2992.1
3690.3	5°	3543.7	3305.0	3063.5	2847.4	2669.8	2440.5	2269.4	2197.1	2134.1	2155.7
3714.8	7.5°	3510.8	3134.0	2758.1	2388.8	2009.1	1642.6	1370.1	1256.4	1170.0	1182.2
3742.0	10°	3466.7	2956.4	2367.2	1803.3	1294.9	933.2	745.2	675.7	637.1	638.1
3782.4	12.5°	3432.8	2744.0	1913.3	1222.6	788.4	595.8	537.5	520.6	509.3	510.3
3843.5	15°	3415.9	2494.0	1465.0	814.7	563.8	504.6	490.5	483.0	475.5	474.6
3911.2	17.5°	3387.7	2215.9	1072.2	594.8	493.4	472.7	460.5	452.0	442.6	440.7
3969.4	20°	3345.4	1900.1	783.7	502.8	462.3	446.4	429.5	418.2	406.9	405.0
4006.1	22.5°	3267.4	1566.5	602.4	465.2	439.8	421.9	401.3	388.1	376.8	375.0
3988.2	25°	3122.7	1253.6	507.5	441.7	420.1	398.4	375.9	358.0	347.7	345.8
3949.7	27.5°	2939.5	984.8	460.5	420.1	394.7	375.0	349.6	332.7	323.3	321.4
3898.9	30°	2723.3	758.4	433.2	395.6	364.6	347.7	325.1	311.1	305.4	305.4
3863.2	32.5°	2490.3	606.1	421.9	371.2	338.3	319.5	301.7	296.0	294.1	293.2
3883.0	35°	2271.3	526.2	416.3	351.5	314.8	297.0	289.4	290.4	294.1	294.1
3944.0	37.5°	2076.8	500.9	413.5	337.4	294.1	278.2	282.9	291.3	287.6	287.6
4051.2	40°	1901.1	503.7	411.6	327.0	277.2	267.8	277.2	270.6	261.2	260.3
4181.8	42.5°	1766.7	527.2	407.8	318.6	266.9	260.3	256.5	246.2	245.3	247.1
4317.1	45°	1669.0	547.9	406.9	314.8	255.6	243.4	238.7	228.4	247.1	251.8
4372.6	47.5°	1553.4	547.9	406.9	301.7	236.8	232.1	224.6	213.3	232.1	236.8
4319.9	50°	1404.0	513.1	390.9	286.6	221.8	219.0	205.8	191.7	187.9	190.8
4196.8	52.5°	1215.1	450.1	350.5	265.9	206.7	201.1	185.1	174.8	172.0	172.0
3976.0	55°	999.9	376.8	296.0	235.9	190.8	180.4	169.2	164.5	161.6	159.8
3666.8	57.5°	812.9	309.2	237.8	209.6	175.7	162.6	158.8	153.2	148.5	145.7
3408.4	60°	667.2	243.4	196.4	186.1	160.7	148.5	147.5	140.0	127.8	125.9
3195.1	62.5°	515.0	178.5	165.4	161.6	145.7	135.3	133.4	118.4	99.6	95.9
2892.5	65°	363.7	139.1	133.4	141.9	129.7	120.3	115.6	93.0	73.3	70.5
2420.7	67.5°	255.6	116.5	105.2	124.0	112.8	100.6	97.7	78.9	61.1	59.2
1830.6	70°	182.3	94.9	86.5	106.2	90.2	88.3	82.7	65.8	49.8	47.9
905.9	72.5°	128.7	72.4	66.7	92.1	62.0	76.1	67.7	50.7	37.6	35.7
308.2	75°	94.9	51.7	47.0	53.6	45.1	57.3	47.9	33.8	23.5	22.6
139.1	77.5°	69.5	32.9	28.2	26.3	26.3	35.7	26.3	14.1	10.3	9.4
70.5	80°	48.9	15.0	13.2	11.3	10.3	8.5	3.8	1.9	0.9	0.9
24.4	82.5°	29.1	6.6	6.6	4.7	2.8	0.0	0.0	0.0	0.0	0.0
9.4	85°	6.6	2.8	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
3.8	87.5°	0.9	0.9	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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