

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: P947478

Luminaire Tested: **GALN-SB2D-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947478
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-SB2D-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA 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: 15088 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

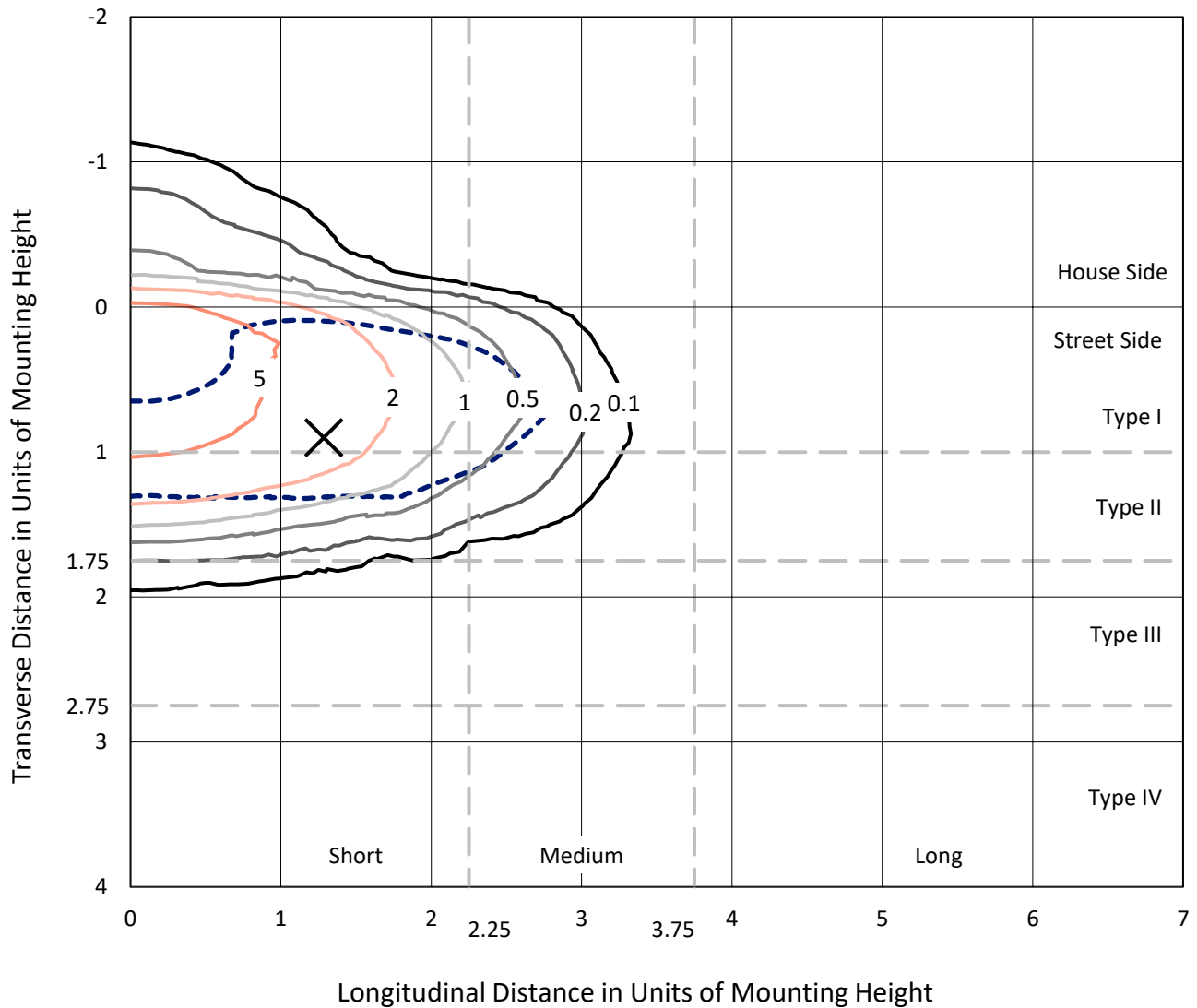
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947478
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Iso-Footcandle Lines of Horizontal Illumination

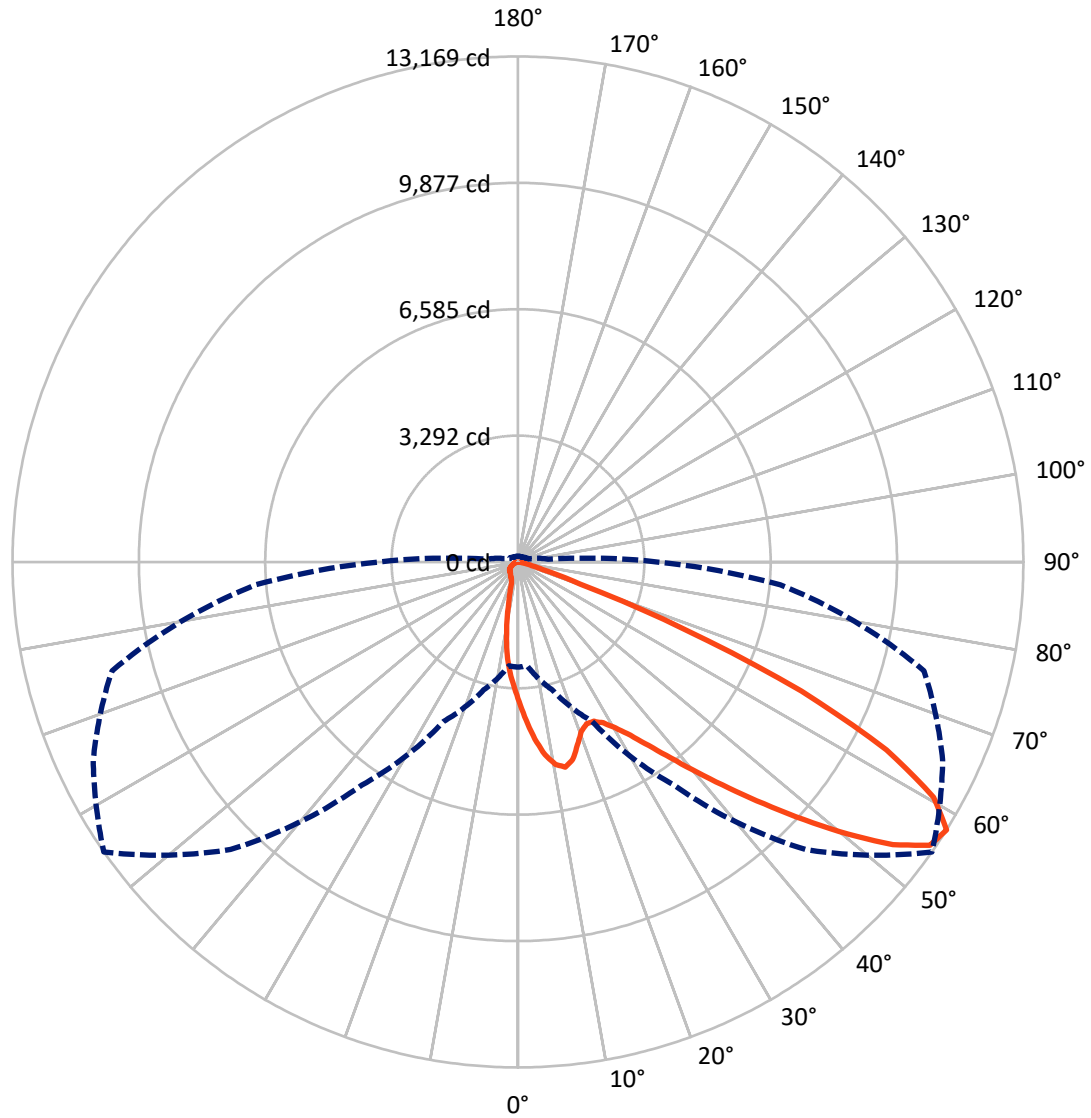
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

REPORT NUMBER: P947478
CATALOG NUMBER: GALN-SB2D-827-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	1178.3	0.0	1178.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	13909.7	0.0	13909.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	15088.0	0.0	15088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.3	2.2
10°-20°	817.2	5.4
20°-30°	1307.4	8.7
30°-40°	2212.9	14.7
40°-50°	3633.1	24.1
50°-60°	3993.1	26.5
60°-70°	2290.4	15.2
70°-80°	468.0	3.1
80°-90°	27.6	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°	15088.0	100.0
0°-180°	15088.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947478

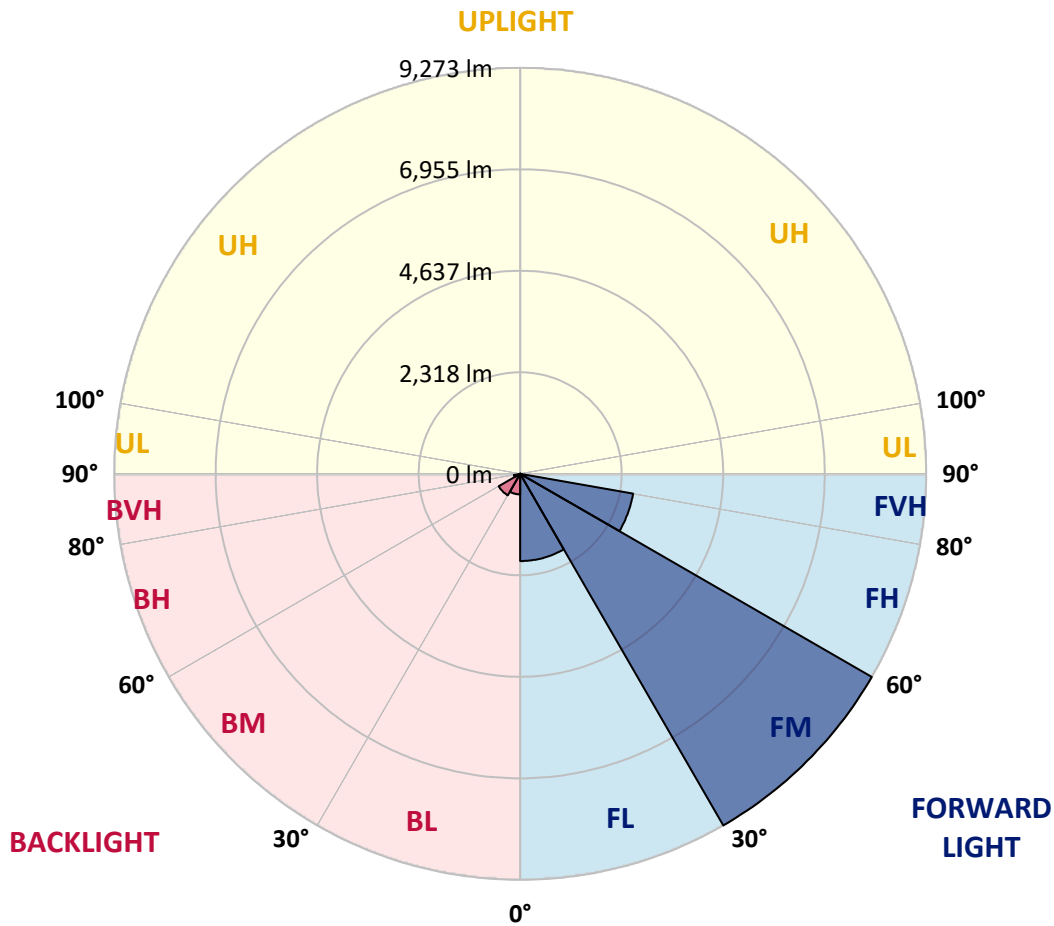
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1992.5	13.2			
FM (30°-60°)	9273.2	61.5			
FH (60°-80°)	2618.3	17.4			G2/5000
FVH (80°-90°)	25.7	0.2			G1/100
BL (0°-30°)	470.4	3.1	B1/500		
BM (30°-60°)	565.9	3.8	B1/1000		
BH (60°-80°)	140.1	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: P947478
 CATALOG NUMBER: GALN-SB2D-827-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3635.8	3635.8	3635.8	3635.8	3635.8	3635.8	3635.8	3635.8	3635.8	3635.8
2.5°	4511.3	4454.6	4446.2	4435.0	4327.1	4246.2	4128.9	4000.5	3856.3	3709.3
5°	5211.9	5167.2	5158.8	5106.7	4983.9	4846.2	4637.8	4374.5	4105.7	3789.3
7.5°	5347.7	5339.3	5377.5	5375.6	5358.9	5250.0	5074.2	4760.6	4356.9	3888.0
10°	4742.0	4763.4	4876.9	4976.5	5245.4	5401.7	5363.5	5104.9	4615.5	4000.5
12.5°	4190.3	4165.2	4246.2	4358.7	4671.3	5136.5	5483.5	5392.4	4911.4	4128.0
15°	3844.2	3834.0	3879.6	3931.7	4169.9	4638.8	5344.0	5625.9	5196.0	4278.7
17.5°	3733.5	3725.2	3739.1	3752.1	3906.6	4269.4	5011.8	5769.1	5468.6	4450.8
20°	3823.8	3812.6	3810.7	3800.5	3864.7	4112.2	4711.3	5779.4	5713.3	4607.1
22.5°	4087.1	4074.0	4028.4	3987.5	3993.1	4133.6	4577.4	5677.0	5897.5	4753.2
25°	4564.3	4542.9	4448.0	4310.3	4222.9	4282.4	4597.8	5542.1	6073.4	4867.6
27.5°	5161.6	5133.7	5011.8	4807.2	4607.1	4534.6	4745.8	5449.1	6219.4	4955.1
30°	5746.8	5710.5	5590.5	5431.4	5139.3	4910.4	5012.8	5490.0	6393.4	5046.3
32.5°	6378.5	6344.1	6185.0	5987.8	5745.9	5437.9	5378.4	5690.1	6606.5	5173.7
35°	7177.7	7123.7	6897.7	6628.8	6372.0	6060.3	5873.3	6035.2	6890.2	5368.2
37.5°	8087.6	8015.0	7771.3	7400.1	7065.1	6716.2	6476.2	6509.7	7306.1	5628.7
40°	8945.4	8879.3	8654.2	8304.4	7883.8	7460.5	7204.7	7130.3	7880.1	5945.9
42.5°	9459.9	9400.3	9305.4	9157.5	8803.0	8371.4	8048.5	7887.6	8559.3	6325.5
45°	9488.7	9436.6	9564.1	9736.2	9666.4	9378.9	8985.4	8690.5	9241.2	6681.8
47.5°	9027.3	8991.9	9378.9	9979.9	10279.5	10400.5	10037.6	9426.4	9804.1	6937.7
50°	7769.4	7756.4	8552.8	9656.2	10513.0	11295.5	11147.5	10111.1	10240.4	7069.8
52.5°	6736.7	6689.3	7153.5	8619.8	10173.5	11766.2	12232.3	10782.8	10545.6	7094.9
55°	5109.5	5067.7	5650.1	6885.6	9078.4	11598.8	13025.9	11476.0	10764.2	7030.7
57.5°	2740.8	2714.8	3450.7	4582.9	7096.8	10594.0	13169.2	12209.1	10948.4	6860.5
60°	1067.1	1062.5	1337.9	2223.6	4313.1	8618.8	12446.3	12649.1	11063.8	6651.1
62.5°	645.7	659.6	704.3	998.3	1905.4	5354.2	10780.0	12148.6	11141.0	6459.5
65°	534.0	535.0	540.5	685.7	912.7	2240.3	8115.5	10501.9	10950.3	6118.0
67.5°	457.7	466.1	487.5	544.3	643.8	982.5	4672.3	8135.0	9790.1	5323.5
70°	361.0	372.1	399.1	447.5	496.8	615.0	1726.7	5412.8	7479.1	4012.6
72.5°	304.2	303.3	317.3	363.8	394.5	432.6	664.3	3033.0	4346.6	1915.6
75°	235.4	244.7	262.4	304.2	322.8	313.5	360.0	1108.1	1557.4	580.5
77.5°	184.2	191.7	207.5	248.4	267.0	222.4	207.5	396.3	500.5	208.4
80°	82.8	89.3	141.4	183.3	217.7	153.5	112.6	202.8	222.4	94.9
82.5°	14.9	25.1	82.8	96.8	111.6	99.5	58.6	105.1	108.9	38.1
85°	0.9	1.9	28.8	35.4	44.7	32.6	17.7	41.9	36.3	13.0
87.5°	0.0	0.0	0.0	0.9	0.9	4.7	5.6	7.4	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: P947478
 CATALOG NUMBER: GALN-SB2D-827-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3635.8	0°	3635.8	3635.8	3635.8	3635.8	3635.8	3635.8	3635.8	3635.8	3635.8	3635.8
3644.2	2.5°	3577.2	3445.1	3316.7	3211.6	3150.2	3046.0	2977.1	2966.0	2937.1	2962.3
3653.5	5°	3508.4	3272.1	3033.0	2819.0	2643.1	2416.1	2246.8	2175.2	2112.8	2134.2
3677.7	7.5°	3475.8	3102.7	2730.6	2365.0	1989.1	1626.3	1356.5	1243.9	1158.3	1170.4
3704.7	10°	3432.1	2926.9	2343.6	1785.4	1282.0	923.8	737.8	668.9	630.8	631.7
3744.7	12.5°	3398.6	2716.6	1894.2	1210.4	780.6	589.8	532.2	515.4	504.3	505.2
3805.2	15°	3381.8	2469.2	1450.4	806.6	558.2	499.6	485.6	478.2	470.8	469.8
3872.1	17.5°	3353.9	2193.8	1061.5	588.9	488.4	468.0	455.9	447.5	438.2	436.3
3929.8	20°	3312.1	1881.2	775.9	497.7	457.7	441.9	425.2	414.0	402.8	401.0
3966.1	22.5°	3234.9	1550.9	596.4	460.5	435.4	417.7	397.3	384.2	373.1	371.2
3948.4	25°	3091.6	1241.1	502.4	437.3	415.9	394.5	372.1	354.5	344.2	342.4
3910.3	27.5°	2910.2	975.0	455.9	415.9	390.8	371.2	346.1	329.3	320.0	318.2
3860.1	30°	2696.2	750.8	428.9	391.7	361.0	344.2	321.9	307.9	302.4	302.4
3824.7	32.5°	2465.4	600.1	417.7	367.5	334.9	316.3	298.6	293.1	291.2	290.3
3844.2	35°	2248.7	521.0	412.1	348.0	311.7	294.0	286.6	287.5	291.2	291.2
3904.7	37.5°	2056.1	495.9	409.4	334.0	291.2	275.4	280.0	288.4	284.7	284.7
4010.8	40°	1882.1	498.7	407.5	323.8	274.5	265.2	274.5	267.9	258.6	257.7
4140.1	42.5°	1749.1	521.9	403.8	315.4	264.2	257.7	254.0	243.8	242.8	244.7
4274.1	45°	1652.3	542.4	402.8	311.7	253.1	241.0	236.3	226.1	244.7	249.3
4329.0	47.5°	1537.9	542.4	402.8	298.6	234.5	229.8	222.4	211.2	229.8	234.5
4276.9	50°	1390.0	508.0	387.0	283.8	219.6	216.8	203.7	189.8	186.1	188.9
4155.0	52.5°	1203.0	445.6	347.0	263.3	204.7	199.1	183.3	173.0	170.3	170.3
3936.3	55°	989.9	373.1	293.1	233.5	188.9	178.6	167.5	162.8	160.0	158.2
3630.3	57.5°	804.8	306.1	235.4	207.5	174.0	161.0	157.2	151.6	147.0	144.2
3374.4	60°	660.6	241.0	194.4	184.2	159.1	147.0	146.1	138.6	126.5	124.7
3163.2	62.5°	509.8	176.8	163.7	160.0	144.2	134.0	132.1	117.2	98.6	94.9
2863.6	65°	360.0	137.7	132.1	140.5	128.4	119.1	114.4	92.1	72.6	69.8
2396.6	67.5°	253.1	115.4	104.2	122.8	111.6	99.5	96.8	78.2	60.5	58.6
1812.3	70°	180.5	94.0	85.6	105.1	89.3	87.5	81.9	65.1	49.3	47.4
896.9	72.5°	127.5	71.6	66.1	91.2	61.4	75.4	67.0	50.2	37.2	35.4
305.2	75°	94.0	51.2	46.5	53.0	44.7	56.8	47.4	33.5	23.3	22.3
137.7	77.5°	68.8	32.6	27.9	26.1	26.1	35.4	26.1	14.0	10.2	9.3
69.8	80°	48.4	14.9	13.0	11.2	10.2	8.4	3.7	1.9	0.9	0.9
24.2	82.5°	28.8	6.5	6.5	4.7	2.8	0.0	0.0	0.0	0.0	0.0
9.3	85°	6.5	2.8	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
3.7	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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