

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: P950166

Luminaire Tested: **GALN-SB4C-950-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950166
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-SB4C-950-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 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: 17803 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

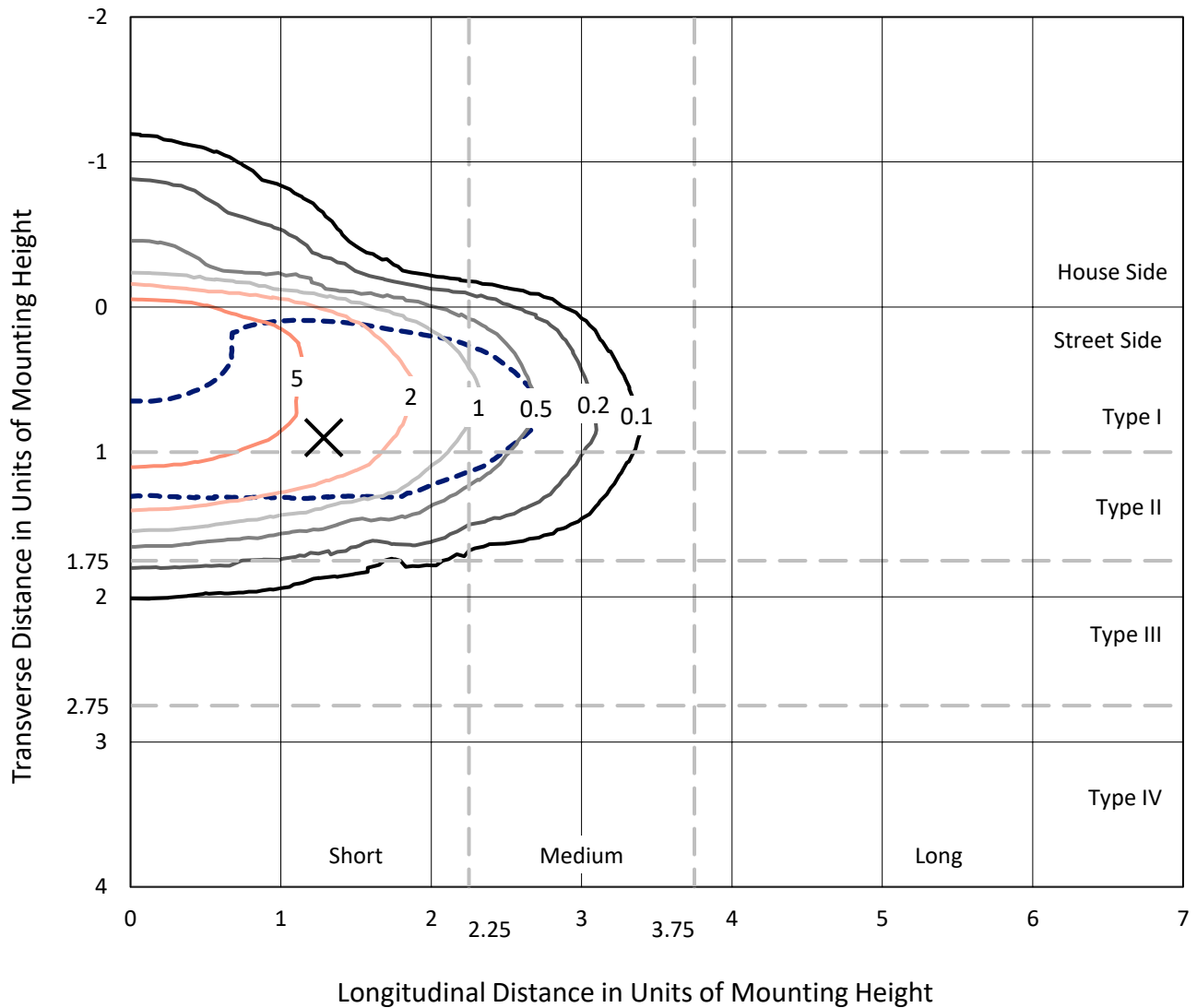
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

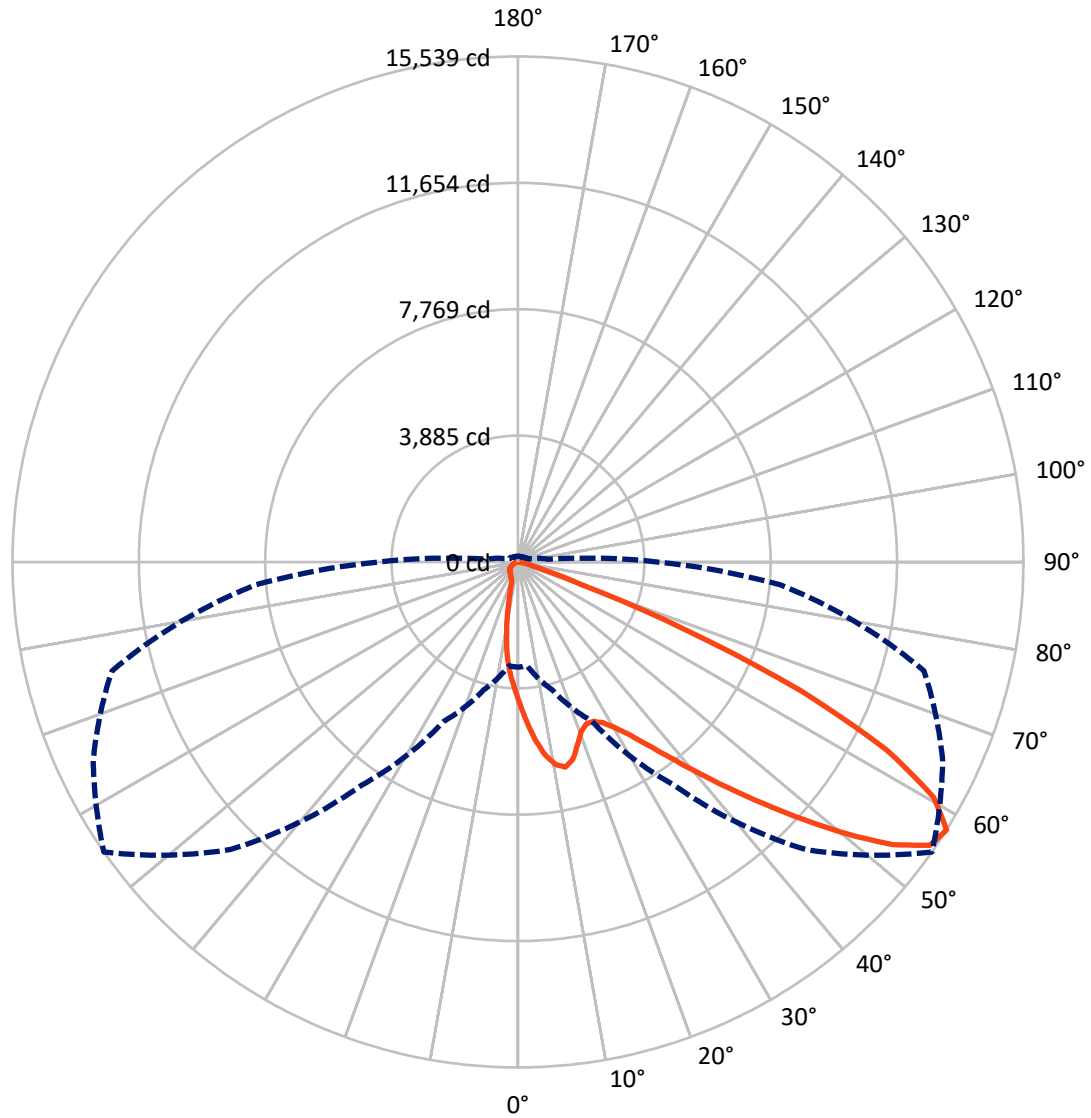
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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
House Side	Lumens	1390.3	0.0	1390.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	16412.7	0.0	16412.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	17803.0	0.0	17803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.2	2.2
10°-20°	964.2	5.4
20°-30°	1542.7	8.7
30°-40°	2611.1	14.7
40°-50°	4286.9	24.1
50°-60°	4711.6	26.5
60°-70°	2702.6	15.2
70°-80°	552.2	3.1
80°-90°	32.6	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°	17803.0	100.0
0°-180°	17803.0	100.0

Coefficient of Utilization



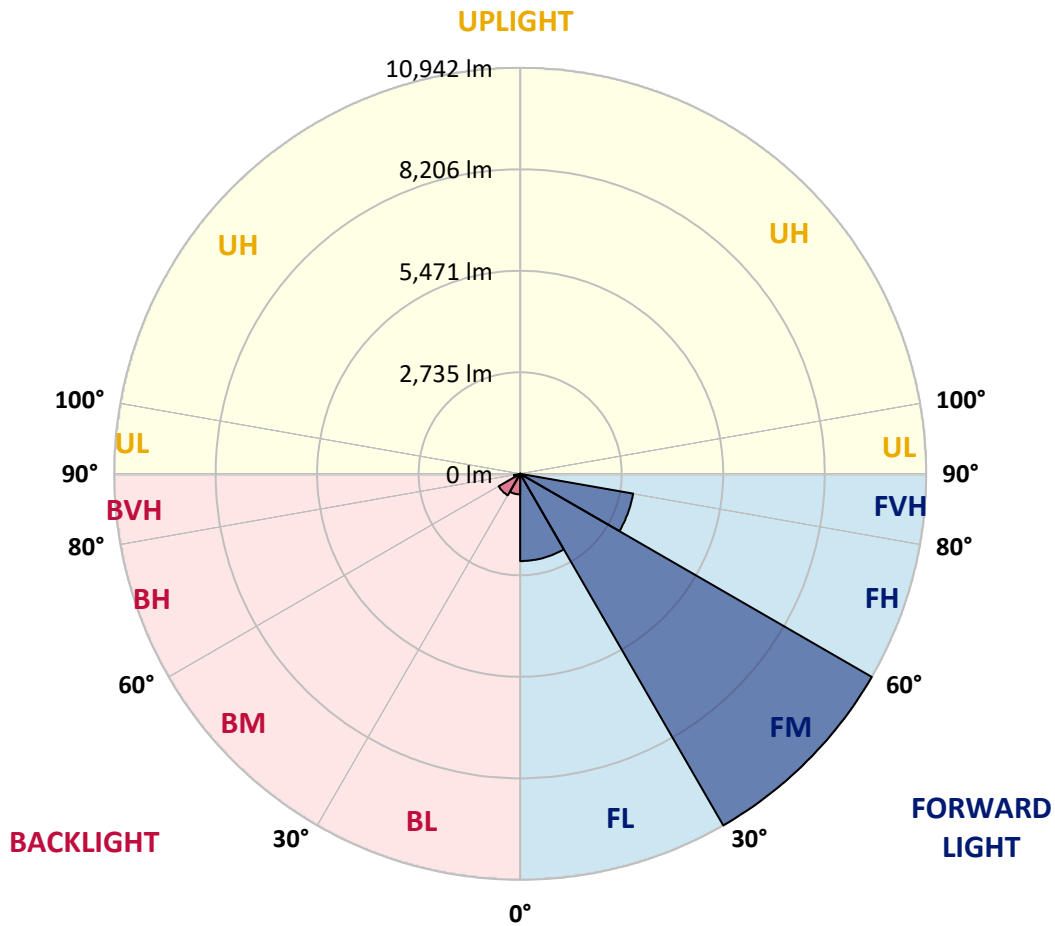
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2351.0	13.2			
FM (30°-60°)	10941.9	61.5			
FH (60°-80°)	3089.4	17.4			G2/5000
FVH (80°-90°)	30.4	0.2			G1/100
BL (0°-30°)	555.1	3.1	B2/1000		
BM (30°-60°)	667.7	3.8	B1/1000		
BH (60°-80°)	165.4	0.9	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4290.1	4290.1	4290.1	4290.1	4290.1	4290.1	4290.1	4290.1	4290.1	4290.1
2.5°	5323.1	5256.1	5246.2	5233.1	5105.7	5010.2	4871.9	4720.4	4550.3	4376.8
5°	6149.7	6097.0	6087.1	6025.7	5880.8	5718.3	5472.4	5161.7	4844.5	4471.2
7.5°	6310.0	6300.1	6345.1	6342.9	6323.2	6194.7	5987.2	5617.3	5140.9	4587.6
10°	5595.3	5620.6	5754.5	5872.0	6189.2	6373.7	6328.6	6023.5	5446.0	4720.4
12.5°	4944.4	4914.7	5010.2	5143.1	5511.9	6060.8	6470.3	6362.7	5795.1	4870.8
15°	4536.0	4523.9	4577.7	4639.2	4920.2	5473.5	6305.6	6638.2	6131.0	5048.6
17.5°	4405.4	4395.5	4411.9	4427.3	4609.5	5037.7	5913.7	6807.3	6452.7	5251.7
20°	4511.8	4498.7	4496.5	4484.4	4560.1	4852.1	5559.1	6819.3	6741.4	5436.2
22.5°	4822.5	4807.1	4753.3	4705.0	4711.6	4877.4	5401.0	6698.6	6958.8	5608.5
25°	5385.7	5360.4	5248.4	5086.0	4982.8	5053.0	5425.2	6539.4	7166.2	5743.5
27.5°	6090.4	6057.5	5913.7	5672.2	5436.2	5350.5	5599.7	6429.6	7338.6	5846.7
30°	6780.9	6738.1	6596.5	6408.8	6064.1	5794.0	5914.8	6477.9	7543.9	5954.3
32.5°	7526.3	7485.7	7298.0	7065.2	6779.8	6416.5	6346.2	6714.0	7795.3	6104.7
35°	8469.3	8405.6	8138.9	7821.6	7518.6	7150.9	6930.2	7121.2	8130.1	6334.1
37.5°	9542.9	9457.3	9169.7	8731.7	8336.5	7924.8	7641.6	7681.1	8620.8	6641.5
40°	10555.1	10477.1	10211.5	9798.7	9302.5	8803.0	8501.1	8413.3	9298.1	7015.8
42.5°	11162.1	11091.9	10979.9	10805.3	10387.1	9877.7	9496.8	9306.9	10099.5	7463.7
45°	11196.2	11134.7	11285.1	11488.2	11405.8	11066.6	10602.3	10254.3	10904.1	7884.2
47.5°	10651.7	10609.9	11066.6	11775.8	12129.3	12272.0	11843.8	11122.6	11568.3	8186.1
50°	9167.5	9152.1	10091.8	11393.8	12404.8	13328.0	13153.5	11930.6	12083.2	8342.0
52.5°	7949.0	7893.0	8440.8	10170.8	12004.1	13883.5	14433.5	12723.2	12443.2	8371.6
55°	6029.0	5979.6	6666.8	8124.6	10712.0	13685.9	15369.9	13541.0	12701.2	8295.8
57.5°	3234.0	3203.3	4071.6	5407.6	8373.8	12500.3	15538.9	14406.0	12918.6	8095.0
60°	1259.1	1253.7	1578.6	2623.7	5089.3	10169.7	14686.0	14925.3	13054.7	7848.0
62.5°	761.9	778.3	831.0	1177.9	2248.2	6317.7	12719.9	14334.7	13145.8	7621.8
65°	630.1	631.2	637.8	809.1	1076.9	2643.4	9575.8	12391.6	12920.8	7218.9
67.5°	540.1	550.0	575.2	642.2	759.7	1159.2	5513.0	9598.9	11551.8	6281.4
70°	425.9	439.1	470.9	528.0	586.2	725.6	2037.5	6386.8	8825.0	4734.7
72.5°	359.0	357.9	374.3	429.2	465.5	510.5	783.8	3578.7	5128.8	2260.3
75°	277.7	288.7	309.6	359.0	380.9	369.9	424.8	1307.4	1837.7	685.0
77.5°	217.4	226.1	244.8	293.1	315.1	262.4	244.8	467.6	590.6	245.9
80°	97.7	105.4	166.9	216.3	256.9	181.1	132.8	239.3	262.4	112.0
82.5°	17.6	29.6	97.7	114.2	131.7	117.5	69.2	124.0	128.4	45.0
85°	1.1	2.2	34.0	41.7	52.7	38.4	20.9	49.4	42.8	15.4
87.5°	0.0	0.0	0.0	1.1	1.1	5.5	6.6	8.8	6.6	5.5
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°
4290.1	0°	4290.1	4290.1	4290.1	4290.1	4290.1	4290.1	4290.1	4290.1	4290.1	4290.1
4300.0	2.5°	4220.9	4065.0	3913.5	3789.5	3717.0	3594.1	3512.9	3499.7	3465.7	3495.3
4310.9	5°	4139.7	3860.9	3578.7	3326.2	3118.8	2850.9	2651.1	2566.6	2493.0	2518.3
4339.5	7.5°	4101.3	3661.1	3222.0	2790.5	2347.0	1918.9	1600.5	1467.7	1366.7	1381.0
4371.3	10°	4049.7	3453.6	2765.3	2106.6	1512.7	1090.1	870.5	789.3	744.3	745.4
4418.5	12.5°	4010.2	3205.5	2235.1	1428.2	921.0	696.0	627.9	608.2	595.0	596.1
4489.9	15°	3990.4	2913.5	1711.4	951.8	658.7	589.5	573.0	564.3	555.5	554.4
4568.9	17.5°	3957.5	2588.5	1252.6	694.9	576.3	552.2	537.9	528.0	517.0	514.9
4637.0	20°	3908.1	2219.7	915.5	587.3	540.1	521.4	501.7	488.5	475.3	473.1
4679.8	22.5°	3816.9	1830.0	703.7	543.4	513.8	492.9	468.7	453.4	440.2	438.0
4658.9	25°	3647.9	1464.4	592.8	516.0	490.7	465.5	439.1	418.3	406.2	404.0
4613.9	27.5°	3433.8	1150.5	537.9	490.7	461.1	438.0	408.4	388.6	377.6	375.4
4554.6	30°	3181.3	885.9	506.1	462.2	425.9	406.2	379.8	363.4	356.8	356.8
4512.9	32.5°	2909.1	708.1	492.9	433.6	395.2	373.2	352.4	345.8	343.6	342.5
4536.0	35°	2653.3	614.8	486.3	410.6	367.8	346.9	338.1	339.2	343.6	343.6
4607.3	37.5°	2426.1	585.1	483.0	394.1	343.6	324.9	330.4	340.3	335.9	335.9
4732.5	40°	2220.8	588.4	480.8	382.0	323.8	312.9	323.8	316.2	305.2	304.1
4885.1	42.5°	2063.8	615.8	476.4	372.1	311.8	304.1	299.7	287.6	286.5	288.7
5043.2	45°	1949.6	640.0	475.3	367.8	298.6	284.3	278.8	266.8	288.7	294.2
5107.9	47.5°	1814.6	640.0	475.3	352.4	276.6	271.1	262.4	249.2	271.1	276.6
5046.4	50°	1640.1	599.4	456.7	334.8	259.1	255.8	240.4	223.9	219.6	222.8
4902.6	52.5°	1419.4	525.8	409.5	310.7	241.5	234.9	216.3	204.2	200.9	200.9
4644.7	55°	1168.0	440.2	345.8	275.5	222.8	210.8	197.6	192.1	188.8	186.6
4283.5	57.5°	949.6	361.2	277.7	244.8	205.3	189.9	185.5	178.9	173.4	170.2
3981.6	60°	779.4	284.3	229.4	217.4	187.7	173.4	172.3	163.6	149.3	147.1
3732.4	62.5°	601.6	208.6	193.2	188.8	170.2	158.1	155.9	138.3	116.4	112.0
3378.9	65°	424.8	162.5	155.9	165.8	151.5	140.5	135.0	108.7	85.6	82.3
2827.9	67.5°	298.6	136.1	123.0	144.9	131.7	117.5	114.2	92.2	71.4	69.2
2138.5	70°	213.0	110.9	101.0	124.0	105.4	103.2	96.6	76.8	58.2	56.0
1058.3	72.5°	150.4	84.5	77.9	107.6	72.5	88.9	79.0	59.3	43.9	41.7
360.1	75°	110.9	60.4	54.9	62.6	52.7	67.0	56.0	39.5	27.4	26.3
162.5	77.5°	81.2	38.4	32.9	30.7	30.7	41.7	30.7	16.5	12.1	11.0
82.3	80°	57.1	17.6	15.4	13.2	12.1	9.9	4.4	2.2	1.1	1.1
28.5	82.5°	34.0	7.7	7.7	5.5	3.3	0.0	0.0	0.0	0.0	0.0
11.0	85°	7.7	3.3	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
4.4	87.5°	1.1	1.1	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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