

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: P953736

Luminaire Tested: **GALN-SB7A-950-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953736
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-SB7A-950-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 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: 18922 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

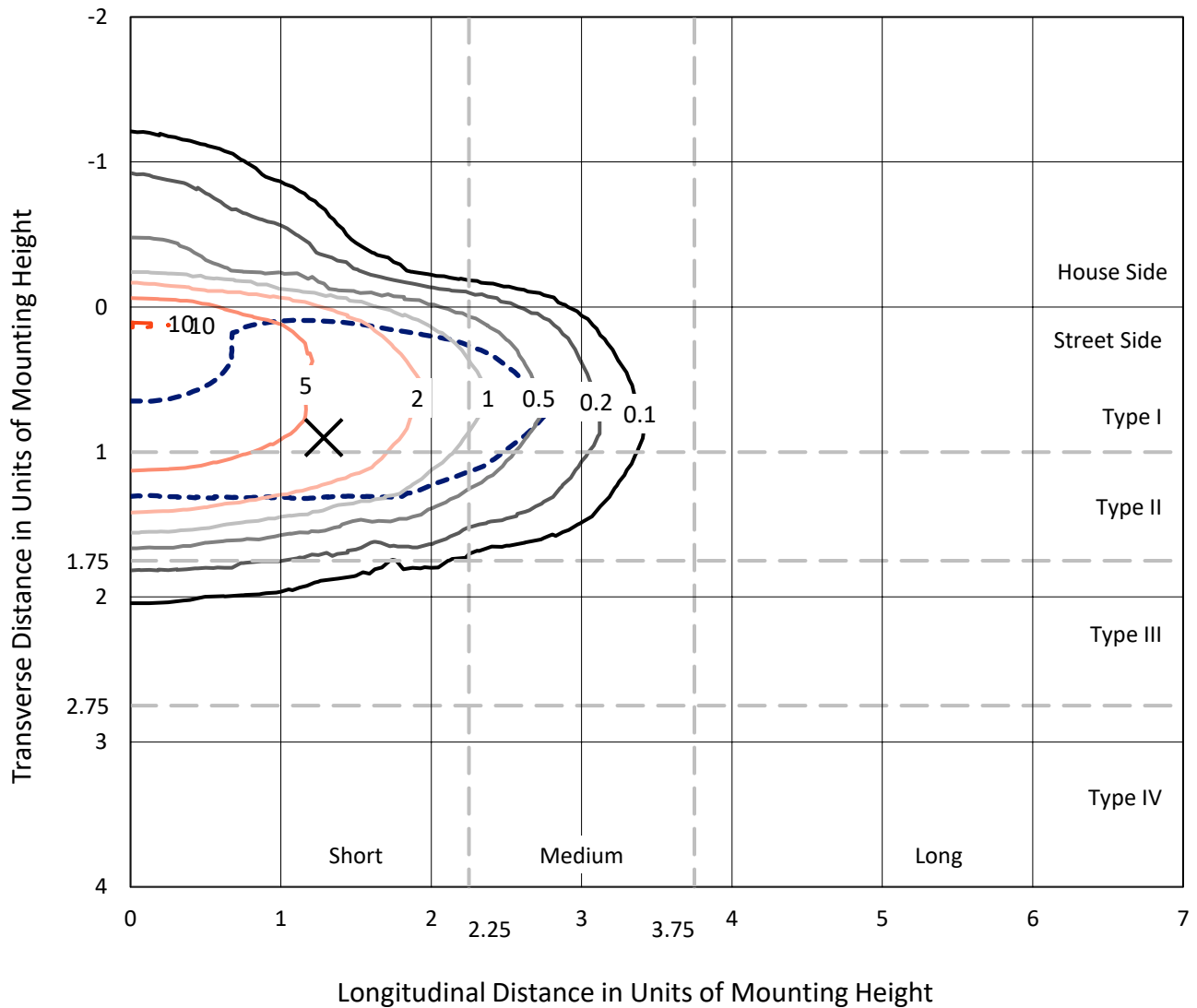
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

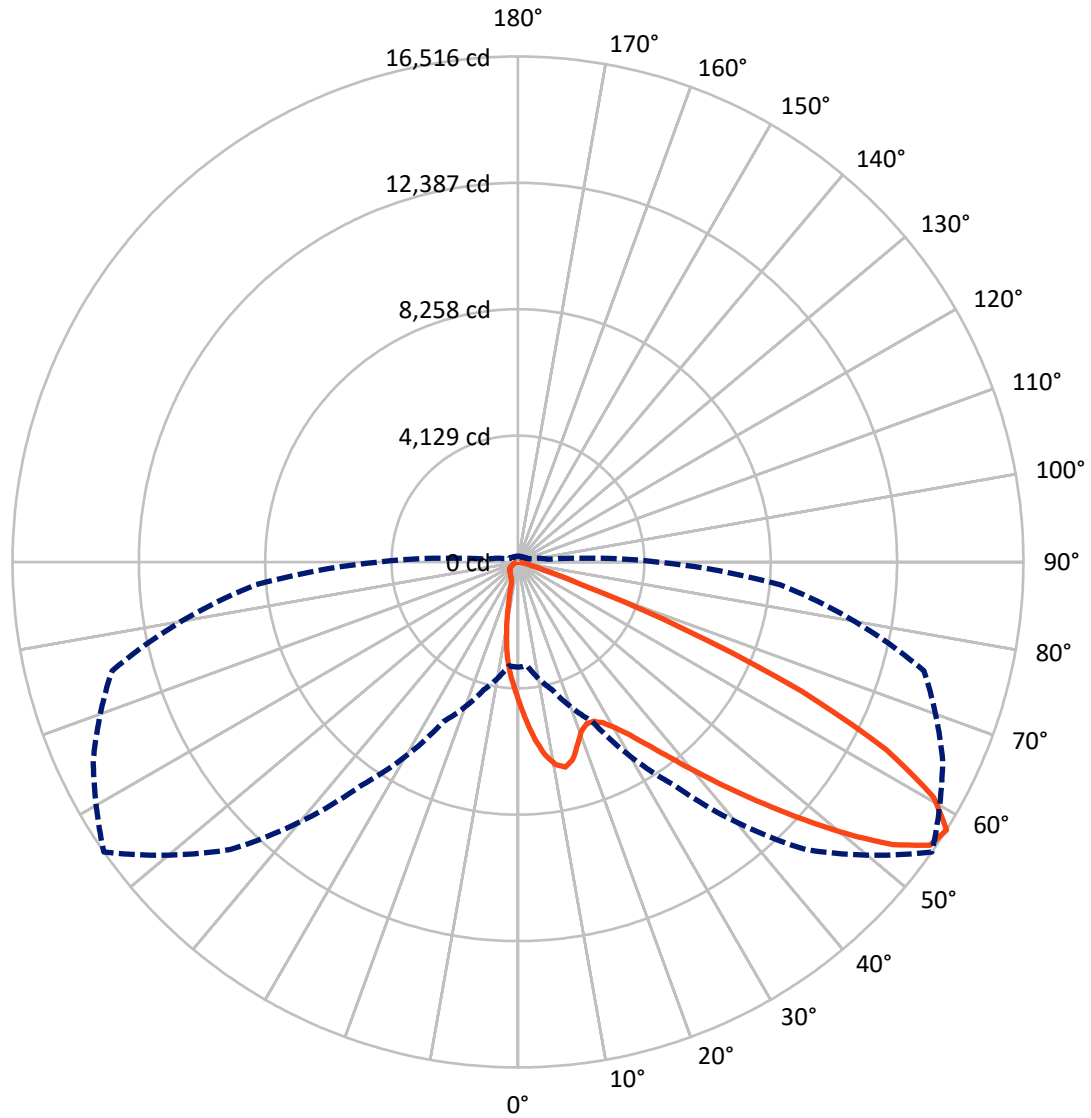
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	1477.7	0.0	1477.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	17444.3	0.0	17444.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	18922.0	0.0	18922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.3	2.2
10°-20°	1024.8	5.4
20°-30°	1639.7	8.7
30°-40°	2775.2	14.7
40°-50°	4556.3	24.1
50°-60°	5007.7	26.5
60°-70°	2872.4	15.2
70°-80°	586.9	3.1
80°-90°	34.6	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°	18922.0	100.0
0°-180°	18922.0	100.0

Coefficient of Utilization



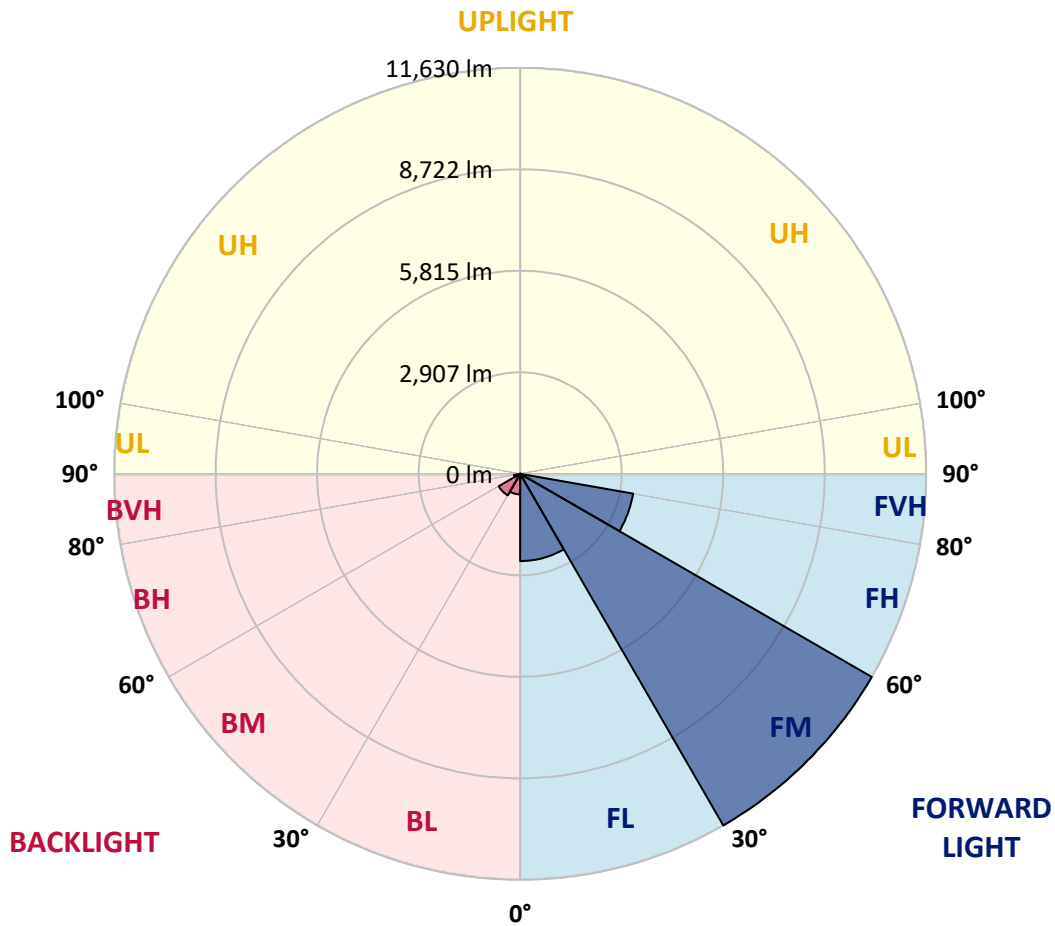
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2498.8	13.2			
FM (30°-60°)	11629.6	61.5			
FH (60°-80°)	3283.6	17.4			G2/5000
FVH (80°-90°)	32.3	0.2			G1/100
BL (0°-30°)	589.9	3.1	B2/1000		
BM (30°-60°)	709.7	3.8	B1/1000		
BH (60°-80°)	175.7	0.9	B1/500		G1/500
BVH (80°-90°)	2.3	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°	4559.7	4559.7	4559.7	4559.7	4559.7	4559.7	4559.7	4559.7	4559.7	4559.7
2.5°	5657.7	5586.5	5576.0	5562.0	5426.6	5325.1	5178.1	5017.1	4836.3	4651.9
5°	6536.2	6480.2	6469.7	6404.4	6250.4	6077.7	5816.3	5486.2	5149.0	4752.3
7.5°	6706.6	6696.1	6743.9	6741.6	6720.6	6584.1	6363.6	5970.4	5464.0	4875.9
10°	5947.0	5973.9	6116.2	6241.1	6578.2	6774.3	6726.4	6402.1	5788.3	5017.1
12.5°	5255.1	5223.6	5325.1	5466.3	5858.4	6441.7	6876.9	6762.6	6159.4	5177.0
15°	4821.1	4808.3	4865.4	4930.8	5229.5	5817.5	6701.9	7055.5	6516.4	5366.0
17.5°	4682.2	4671.7	4689.2	4705.6	4899.3	5354.3	6285.4	7235.1	6858.3	5581.8
20°	4795.4	4781.4	4779.1	4766.3	4846.8	5157.1	5908.5	7248.0	7165.1	5777.8
22.5°	5125.6	5109.3	5052.1	5000.8	5007.8	5184.0	5740.5	7119.6	7396.2	5961.0
25°	5724.2	5697.3	5578.3	5405.6	5296.0	5370.6	5766.2	6950.4	7616.7	6104.5
27.5°	6473.2	6438.2	6285.4	6028.7	5777.8	5686.8	5951.7	6833.8	7799.9	6214.2
30°	7207.1	7161.6	7011.1	6811.6	6445.2	6158.2	6286.6	6885.1	8018.0	6328.6
32.5°	7999.4	7956.2	7756.7	7509.3	7206.0	6819.8	6745.1	7136.0	8285.2	6488.4
35°	9001.6	8934.0	8650.4	8313.2	7991.2	7600.3	7365.8	7568.8	8641.1	6732.3
37.5°	10142.7	10051.7	9746.0	9280.5	8860.4	8422.9	8121.9	8163.9	9162.6	7059.0
40°	11218.5	11135.6	10853.3	10414.6	9887.2	9356.3	9035.5	8942.1	9882.5	7456.8
42.5°	11863.7	11789.0	11670.0	11484.5	11040.0	10498.6	10093.7	9891.9	10734.3	7932.9
45°	11899.9	11834.5	11994.4	12210.2	12122.7	11762.2	11268.7	10898.8	11589.5	8379.7
47.5°	11321.2	11276.8	11762.2	12515.9	12891.6	13043.3	12588.3	11821.7	12295.4	8700.6
50°	9743.7	9727.4	10726.1	12109.9	13184.5	14165.7	13980.2	12680.5	12842.6	8866.3
52.5°	8448.6	8389.1	8971.3	10810.1	12758.6	14756.1	15340.7	13522.9	13225.3	8897.8
55°	6407.9	6355.4	7085.8	8635.3	11385.3	14546.1	16335.9	14392.1	13499.5	8817.3
57.5°	3437.3	3404.6	4327.5	5747.5	8900.1	13286.0	16515.6	15311.5	13730.5	8603.8
60°	1338.3	1332.5	1677.8	2788.6	5409.1	10809.0	15609.0	15863.4	13875.2	8341.2
62.5°	809.7	827.2	883.2	1251.9	2389.5	6714.8	13519.4	15235.7	13972.1	8100.9
65°	669.7	670.9	677.9	859.9	1144.6	2809.6	10177.7	13170.5	13732.9	7672.7
67.5°	574.1	584.6	611.4	682.6	807.4	1232.1	5859.5	10202.2	12277.9	6676.3
70°	452.7	466.7	500.5	561.2	623.1	771.2	2165.5	6788.3	9379.7	5032.3
72.5°	381.5	380.4	397.9	456.2	494.7	542.5	833.1	3803.7	5451.1	2402.4
75°	295.2	306.9	329.0	381.5	404.9	393.2	451.5	1389.6	1953.2	728.1
77.5°	231.0	240.4	260.2	311.5	334.9	278.9	260.2	497.0	627.7	261.4
80°	103.8	112.0	177.3	229.9	273.0	192.5	141.2	254.4	278.9	119.0
82.5°	18.7	31.5	103.8	121.3	140.0	124.8	73.5	131.8	136.5	47.8
85°	1.2	2.3	36.2	44.3	56.0	40.8	22.2	52.5	45.5	16.3
87.5°	0.0	0.0	0.0	1.2	1.2	5.8	7.0	9.3	7.0	5.8
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°
4559.7	0°	4559.7	4559.7	4559.7	4559.7	4559.7	4559.7	4559.7	4559.7	4559.7	4559.7
4570.2	2.5°	4486.2	4320.5	4159.5	4027.7	3950.7	3820.0	3733.7	3719.7	3683.5	3715.0
4581.9	5°	4399.9	4103.5	3803.7	3535.3	3314.8	3030.1	2817.7	2727.9	2649.7	2676.6
4612.2	7.5°	4359.1	3891.2	3424.5	2965.9	2494.6	2039.5	1701.2	1560.0	1452.6	1467.8
4646.1	10°	4304.2	3670.7	2939.1	2239.0	1607.8	1158.6	925.2	838.9	791.1	792.2
4696.2	12.5°	4262.2	3407.0	2375.5	1518.0	978.9	739.7	667.4	646.4	632.4	633.6
4772.1	15°	4241.2	3096.6	1819.0	1011.6	700.1	626.6	609.1	599.7	590.4	589.2
4856.1	17.5°	4206.2	2751.2	1331.3	738.6	612.6	586.9	571.7	561.2	549.5	547.2
4928.4	20°	4153.7	2359.2	973.1	624.2	574.1	554.2	533.2	519.2	505.2	502.9
4973.9	22.5°	4056.9	1945.0	747.9	577.6	546.0	523.9	498.2	481.9	467.9	465.5
4951.8	25°	3877.2	1556.5	630.1	548.4	521.5	494.7	466.7	444.5	431.7	429.4
4903.9	27.5°	3649.7	1222.8	571.7	521.5	490.0	465.5	434.0	413.0	401.4	399.0
4840.9	30°	3381.3	941.6	537.9	491.2	452.7	431.7	403.7	386.2	379.2	379.2
4796.6	32.5°	3091.9	752.6	523.9	460.9	420.0	396.7	374.5	367.5	365.2	364.0
4821.1	35°	2820.1	653.4	516.9	436.4	390.9	368.7	359.4	360.5	365.2	365.2
4896.9	37.5°	2578.6	621.9	513.4	418.9	365.2	345.4	351.2	361.7	357.0	357.0
5029.9	40°	2360.4	625.4	511.0	406.0	344.2	332.5	344.2	336.0	324.4	323.2
5192.1	42.5°	2193.5	654.6	506.4	395.5	331.4	323.2	318.5	305.7	304.5	306.9
5360.1	45°	2072.2	680.2	505.2	390.9	317.4	302.2	296.4	283.5	306.9	312.7
5429.0	47.5°	1928.7	680.2	505.2	374.5	294.0	288.2	278.9	264.9	288.2	294.0
5363.6	50°	1743.2	637.1	485.4	355.9	275.4	271.9	255.5	238.0	233.4	236.9
5210.8	52.5°	1508.6	558.9	435.2	330.2	256.7	249.7	229.9	217.0	213.5	213.5
4936.6	55°	1241.4	467.9	367.5	292.9	236.9	224.0	210.0	204.2	200.7	198.4
4552.7	57.5°	1009.3	383.9	295.2	260.2	218.2	201.9	197.2	190.2	184.3	180.8
4231.9	60°	828.4	302.2	243.9	231.0	199.5	184.3	183.2	173.8	158.7	156.3
3967.0	62.5°	639.4	221.7	205.4	200.7	180.8	168.0	165.7	147.0	123.7	119.0
3591.3	65°	451.5	172.7	165.7	176.2	161.0	149.3	143.5	115.5	91.0	87.5
3005.6	67.5°	317.4	144.7	130.7	154.0	140.0	124.8	121.3	98.0	75.8	73.5
2272.9	70°	226.4	117.8	107.3	131.8	112.0	109.7	102.7	81.7	61.8	59.5
1124.8	72.5°	159.8	89.8	82.8	114.3	77.0	94.5	84.0	63.0	46.7	44.3
382.7	75°	117.8	64.2	58.3	66.5	56.0	71.2	59.5	42.0	29.2	28.0
172.7	77.5°	86.3	40.8	35.0	32.7	32.7	44.3	32.7	17.5	12.8	11.7
87.5	80°	60.7	18.7	16.3	14.0	12.8	10.5	4.7	2.3	1.2	1.2
30.3	82.5°	36.2	8.2	8.2	5.8	3.5	0.0	0.0	0.0	0.0	0.0
11.7	85°	8.2	3.5	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
4.7	87.5°	1.2	1.2	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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