

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: P950775

Luminaire Tested: **GALN-SB5A-850-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950775
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-SB5A-850-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 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: 18480 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

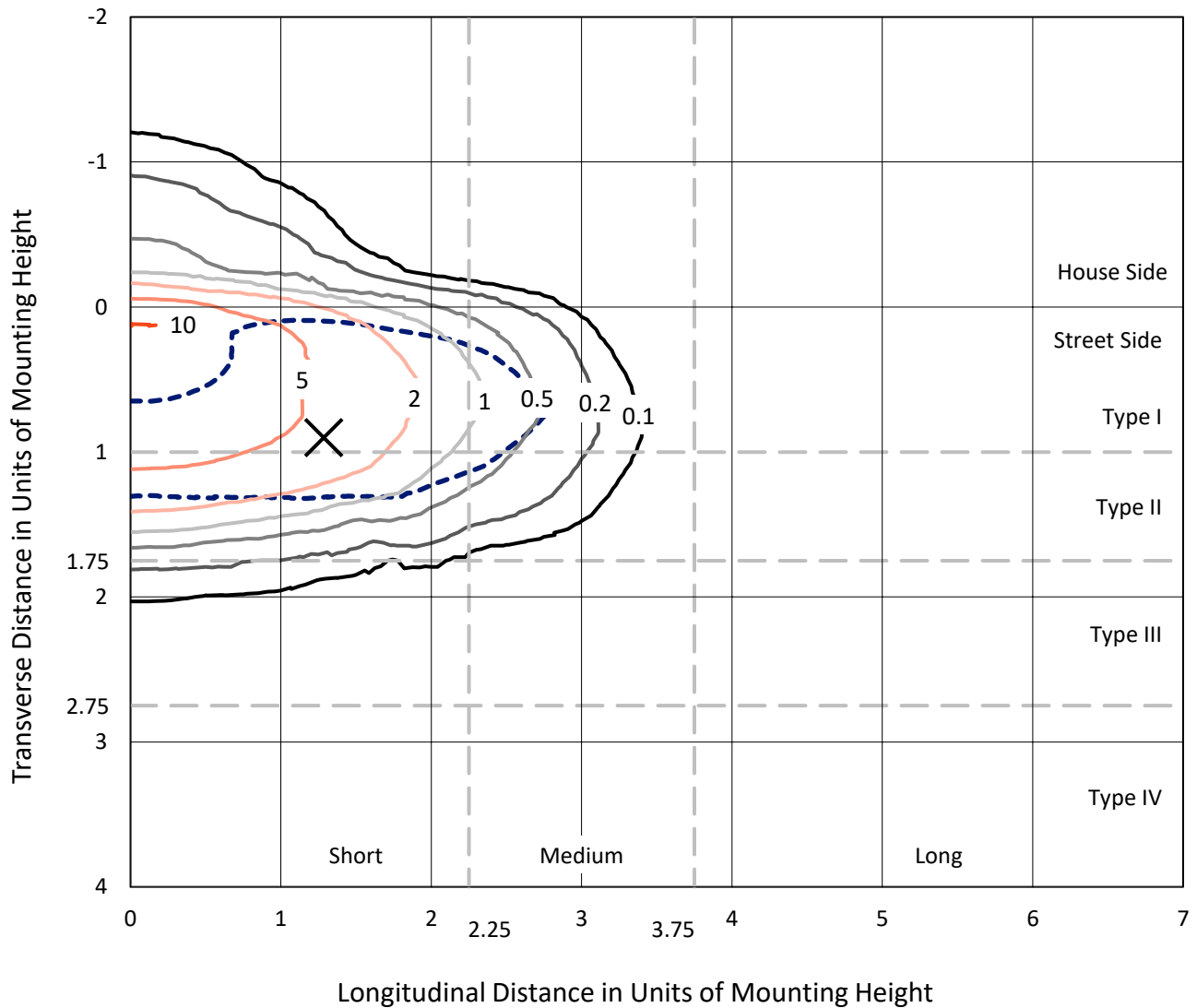
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

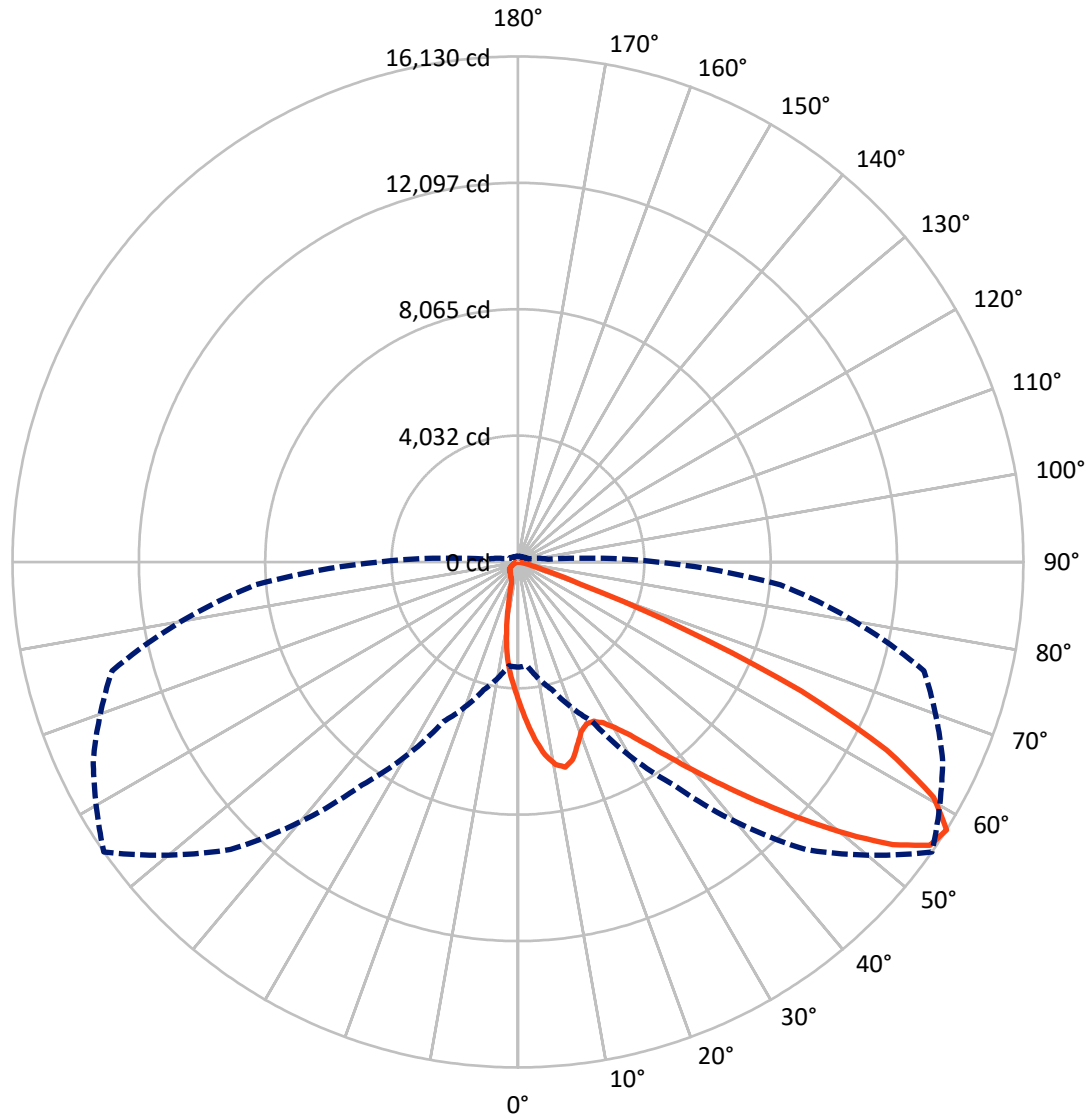
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	1443.2	0.0	1443.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	17036.8	0.0	17036.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	18480.0	0.0	18480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.3	2.2
10°-20°	1000.9	5.4
20°-30°	1601.4	8.7
30°-40°	2710.4	14.7
40°-50°	4449.9	24.1
50°-60°	4890.8	26.5
60°-70°	2805.3	15.2
70°-80°	573.2	3.1
80°-90°	33.8	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°	18480.0	100.0
0°-180°	18480.0	100.0

Coefficient of Utilization



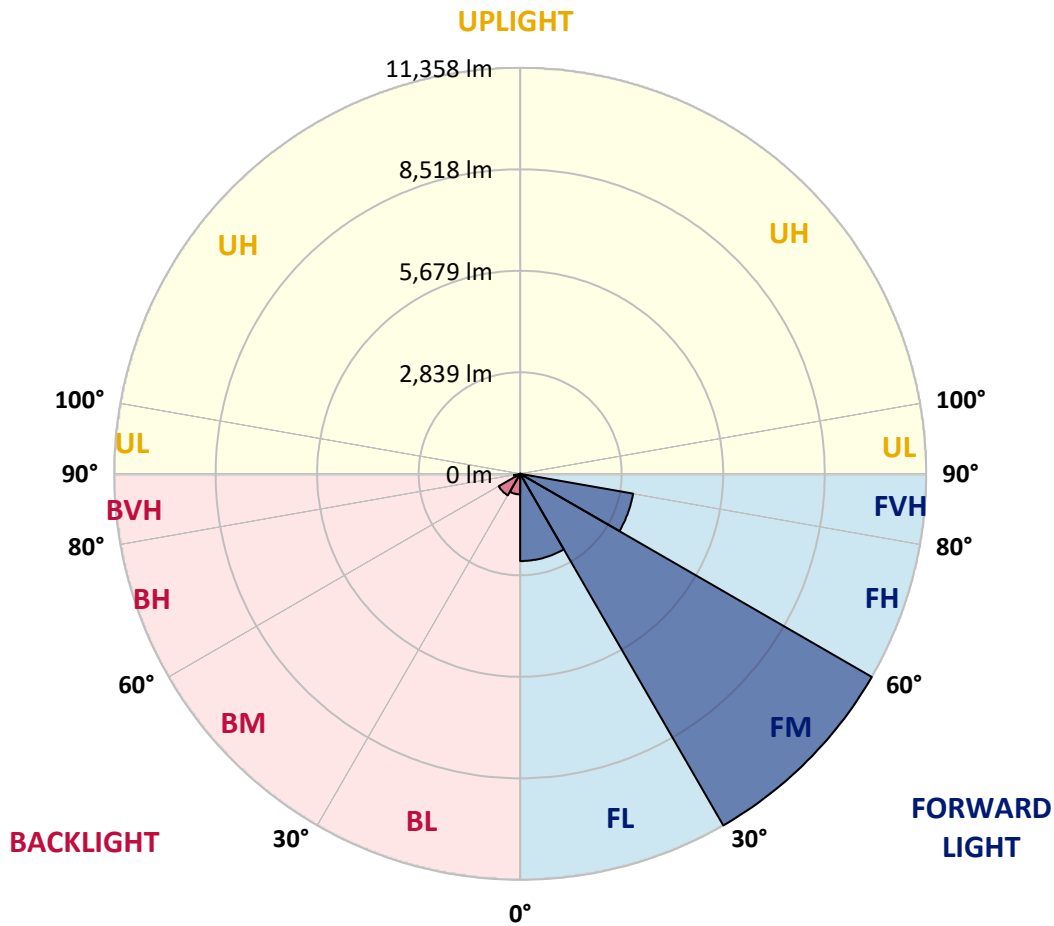
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2440.4	13.2			
FM (30°-60°)	11357.9	61.5			
FH (60°-80°)	3206.9	17.4			G2/5000
FVH (80°-90°)	31.5	0.2			G1/100
BL (0°-30°)	576.2	3.1	B2/1000		
BM (30°-60°)	693.1	3.8	B1/1000		
BH (60°-80°)	171.6	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°	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2
2.5°	5525.5	5456.0	5445.7	5432.1	5299.9	5200.7	5057.2	4899.9	4723.3	4543.2
5°	6383.6	6328.9	6318.6	6254.8	6104.4	5935.7	5680.5	5358.0	5028.7	4641.2
7.5°	6549.9	6539.7	6586.4	6584.1	6563.6	6430.3	6214.9	5830.9	5336.3	4762.0
10°	5808.1	5834.3	5973.3	6095.3	6424.6	6616.0	6569.3	6252.5	5653.1	4899.9
12.5°	5132.4	5101.6	5200.7	5338.6	5721.5	6291.3	6716.3	6604.6	6015.5	5056.0
15°	4708.5	4695.9	4751.8	4815.6	5107.3	5681.6	6545.4	6890.6	6364.2	5240.6
17.5°	4572.9	4562.6	4579.7	4595.7	4784.8	5229.2	6138.6	7066.1	6698.1	5451.4
20°	4683.4	4669.7	4667.5	4654.9	4733.5	5036.7	5770.5	7078.7	6997.8	5642.9
22.5°	5005.9	4989.9	4934.1	4884.0	4890.8	5062.9	5606.4	6953.3	7223.4	5821.8
25°	5590.5	5564.3	5448.0	5279.4	5172.3	5245.2	5631.5	6788.1	7438.8	5961.9
27.5°	6322.0	6287.8	6138.6	5887.9	5642.9	5554.0	5812.7	6674.1	7617.7	6069.1
30°	7038.8	6994.3	6847.3	6652.5	6294.7	6014.4	6139.7	6724.3	7830.7	6180.7
32.5°	7812.5	7770.4	7575.5	7333.9	7037.6	6660.5	6587.5	6969.3	8091.7	6336.8
35°	8791.4	8725.3	8448.4	8119.0	7804.5	7422.8	7193.8	7392.0	8439.2	6575.0
37.5°	9905.8	9816.9	9518.4	9063.7	8653.5	8226.2	7932.2	7973.2	8948.6	6894.1
40°	10956.4	10875.5	10599.8	10171.3	9656.2	9137.8	8824.4	8733.2	9651.7	7282.6
42.5°	11586.6	11513.7	11397.4	11216.2	10782.1	10253.4	9857.9	9660.8	10483.5	7747.6
45°	11621.9	11558.1	11714.2	11925.0	11839.6	11487.5	11005.4	10644.2	11318.8	8184.0
47.5°	11056.7	11013.4	11487.5	12223.6	12590.5	12738.6	12294.2	11545.6	12008.2	8497.4
50°	9516.1	9500.1	10475.6	11827.0	12876.5	13834.9	13653.7	12384.2	12542.6	8659.2
52.5°	8251.2	8193.1	8761.7	10557.6	12460.6	14411.4	14982.3	13207.0	12916.4	8689.9
55°	6258.2	6206.9	6920.3	8433.6	11119.4	14206.3	15954.3	14055.9	13184.2	8611.3
57.5°	3357.0	3325.1	4226.5	5613.3	8692.2	12975.7	16129.8	14953.9	13409.8	8402.8
60°	1307.0	1301.3	1638.6	2723.4	5282.8	10556.5	15244.4	15492.8	13551.1	8146.4
62.5°	790.8	807.9	862.6	1222.7	2333.7	6557.9	13203.6	14879.8	13645.7	7911.7
65°	654.1	655.2	662.1	839.8	1117.9	2744.0	9940.0	12862.8	13412.1	7493.5
67.5°	560.6	570.9	597.1	666.6	788.5	1203.3	5722.6	9963.9	11991.1	6520.3
70°	442.1	455.8	488.9	548.1	608.5	753.2	2114.9	6629.7	9160.6	4914.7
72.5°	372.6	371.5	388.6	445.6	483.2	529.9	813.6	3714.8	5323.8	2346.3
75°	288.3	299.7	321.3	372.6	395.4	384.0	441.0	1357.2	1907.5	711.1
77.5°	225.6	234.7	254.1	304.3	327.0	272.3	254.1	485.4	613.1	255.3
80°	101.4	109.4	173.2	224.5	266.6	188.0	137.9	248.4	272.3	116.2
82.5°	18.2	30.8	101.4	118.5	136.7	121.9	71.8	128.8	133.3	46.7
85°	1.1	2.3	35.3	43.3	54.7	39.9	21.7	51.3	44.4	16.0
87.5°	0.0	0.0	0.0	1.1	1.1	5.7	6.8	9.1	6.8	5.7
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°
4453.2	0°	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2
4463.5	2.5°	4381.4	4219.6	4062.4	3933.6	3858.4	3730.8	3646.4	3632.8	3597.4	3628.2
4474.9	5°	4297.1	4007.7	3714.8	3452.7	3237.4	2959.3	2751.9	2664.2	2587.8	2614.0
4504.5	7.5°	4257.2	3800.3	3344.5	2896.6	2436.3	1991.9	1661.4	1523.5	1418.7	1433.5
4537.5	10°	4203.7	3584.9	2870.4	2186.7	1570.3	1131.5	903.6	819.3	772.6	773.7
4586.5	12.5°	4162.6	3327.4	2320.1	1482.5	956.1	722.5	651.8	631.3	617.6	618.8
4660.6	15°	4142.1	3024.3	1776.5	988.0	683.7	611.9	594.8	585.7	576.6	575.5
4742.7	17.5°	4108.0	2687.0	1300.2	721.3	598.2	573.2	558.4	548.1	536.7	534.4
4813.3	20°	4056.7	2304.1	950.4	609.6	560.6	541.3	520.8	507.1	493.4	491.1
4857.8	22.5°	3962.1	1899.6	730.4	564.1	533.3	511.6	486.6	470.6	456.9	454.7
4836.1	25°	3786.6	1520.1	615.3	535.6	509.4	483.2	455.8	434.2	421.6	419.3
4789.4	27.5°	3564.4	1194.2	558.4	509.4	478.6	454.7	423.9	403.4	392.0	389.7
4727.8	30°	3302.3	919.6	525.3	479.7	442.1	421.6	394.3	377.2	370.3	370.3
4684.5	32.5°	3019.7	735.0	511.6	450.1	410.2	387.4	365.8	358.9	356.7	355.5
4708.5	35°	2754.2	638.1	504.8	426.2	381.7	360.1	351.0	352.1	356.7	356.7
4782.5	37.5°	2518.3	607.4	501.4	409.1	356.7	337.3	343.0	353.2	348.7	348.7
4912.4	40°	2305.2	610.8	499.1	396.6	336.2	324.8	336.2	328.2	316.8	315.6
5070.8	42.5°	2142.3	639.3	494.5	386.3	323.6	315.6	311.1	298.6	297.4	299.7
5234.9	45°	2023.8	664.3	493.4	381.7	309.9	295.1	289.4	276.9	299.7	305.4
5302.2	47.5°	1883.6	664.3	493.4	365.8	287.2	281.5	272.3	258.7	281.5	287.2
5238.4	50°	1702.4	622.2	474.0	347.6	268.9	265.5	249.6	232.5	227.9	231.3
5089.1	52.5°	1473.4	545.8	425.0	322.5	250.7	243.9	224.5	211.9	208.5	208.5
4821.3	55°	1212.4	456.9	358.9	286.0	231.3	218.8	205.1	199.4	196.0	193.7
4446.4	57.5°	985.7	374.9	288.3	254.1	213.1	197.1	192.6	185.7	180.0	176.6
4133.0	60°	809.1	295.1	238.2	225.6	194.9	180.0	178.9	169.8	155.0	152.7
3874.4	62.5°	624.5	216.5	200.6	196.0	176.6	164.1	161.8	143.6	120.8	116.2
3507.4	65°	441.0	168.6	161.8	172.1	157.3	145.9	140.2	112.8	88.9	85.5
2935.4	67.5°	309.9	141.3	127.6	150.4	136.7	121.9	118.5	95.7	74.1	71.8
2219.8	70°	221.1	115.1	104.8	128.8	109.4	107.1	100.3	79.8	60.4	58.1
1098.5	72.5°	156.1	87.7	80.9	111.7	75.2	92.3	82.0	61.5	45.6	43.3
373.8	75°	115.1	62.7	57.0	65.0	54.7	69.5	58.1	41.0	28.5	27.3
168.6	77.5°	84.3	39.9	34.2	31.9	31.9	43.3	31.9	17.1	12.5	11.4
85.5	80°	59.3	18.2	16.0	13.7	12.5	10.3	4.6	2.3	1.1	1.1
29.6	82.5°	35.3	8.0	8.0	5.7	3.4	0.0	0.0	0.0	0.0	0.0
11.4	85°	8.0	3.4	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
4.6	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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