

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: P949725

Luminaire Tested: **GALN-SB4B-927-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949725
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-SB4B-927-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 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: 11712 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

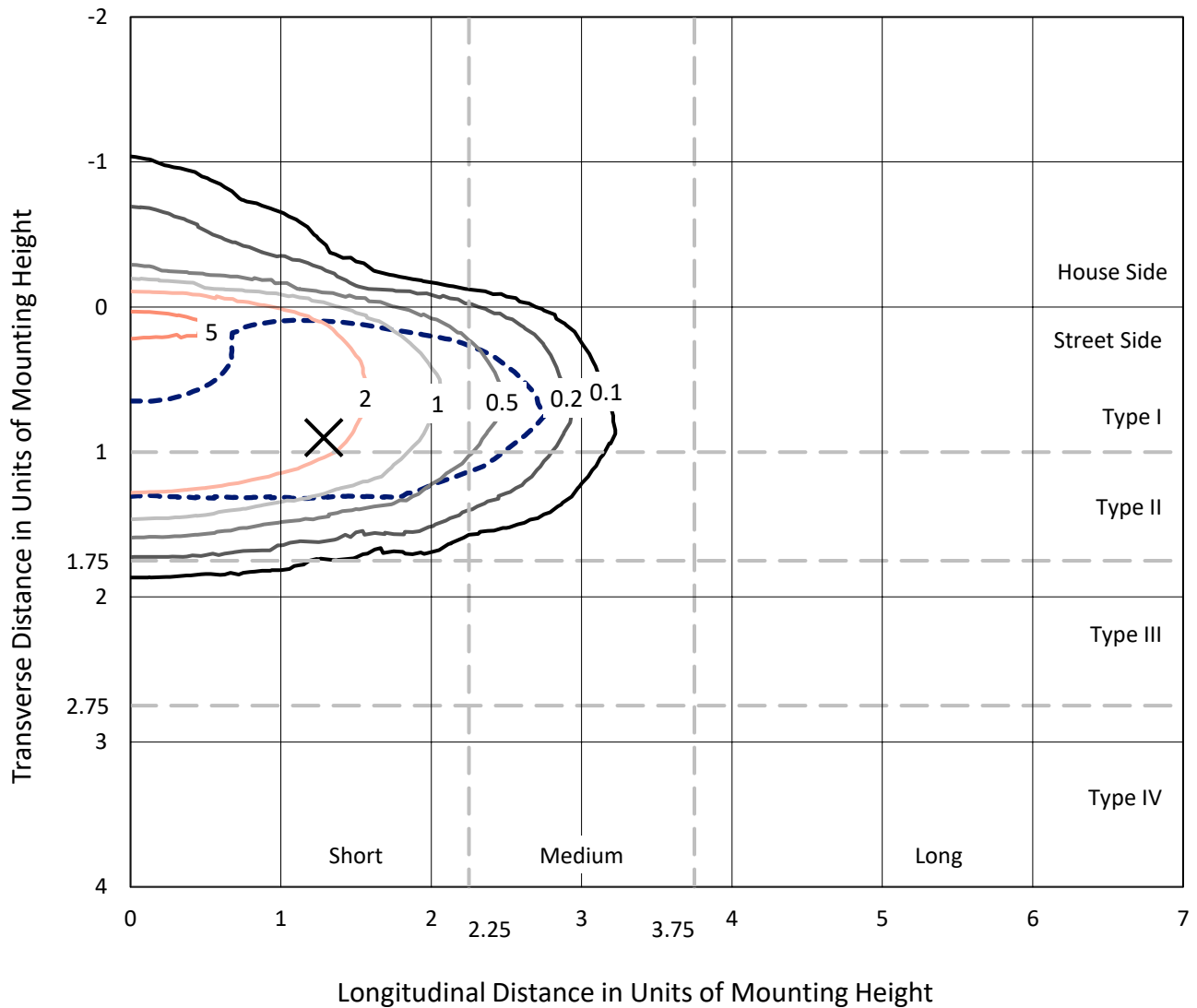
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

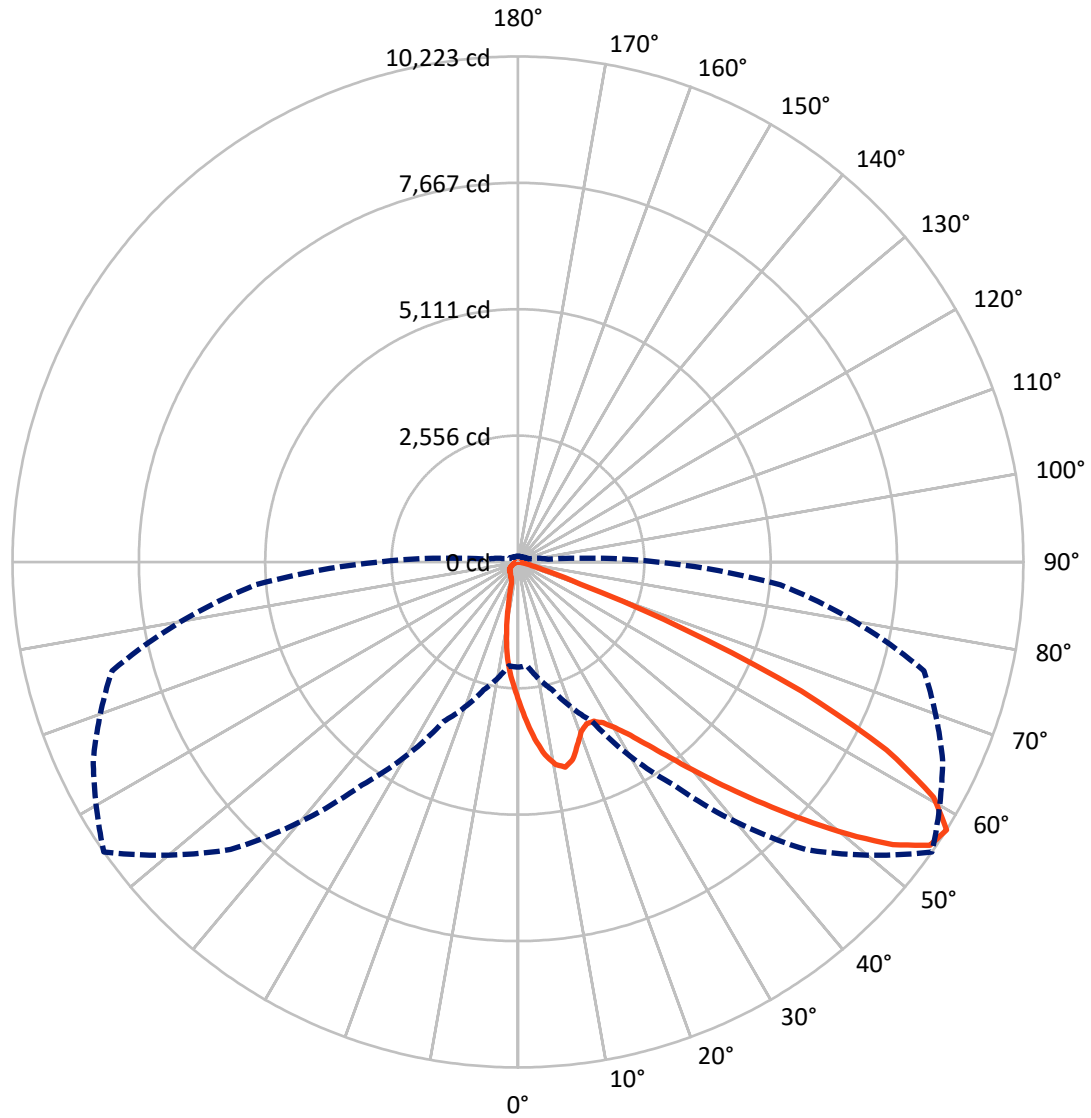
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	914.7	0.0	914.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	10797.3	0.0	10797.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	11712.0	0.0	11712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.6	2.2
10°-20°	634.3	5.4
20°-30°	1014.9	8.7
30°-40°	1717.8	14.7
40°-50°	2820.2	24.1
50°-60°	3099.6	26.5
60°-70°	1777.9	15.2
70°-80°	363.3	3.1
80°-90°	21.4	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°	11712.0	100.0
0°-180°	11712.0	100.0

Coefficient of Utilization



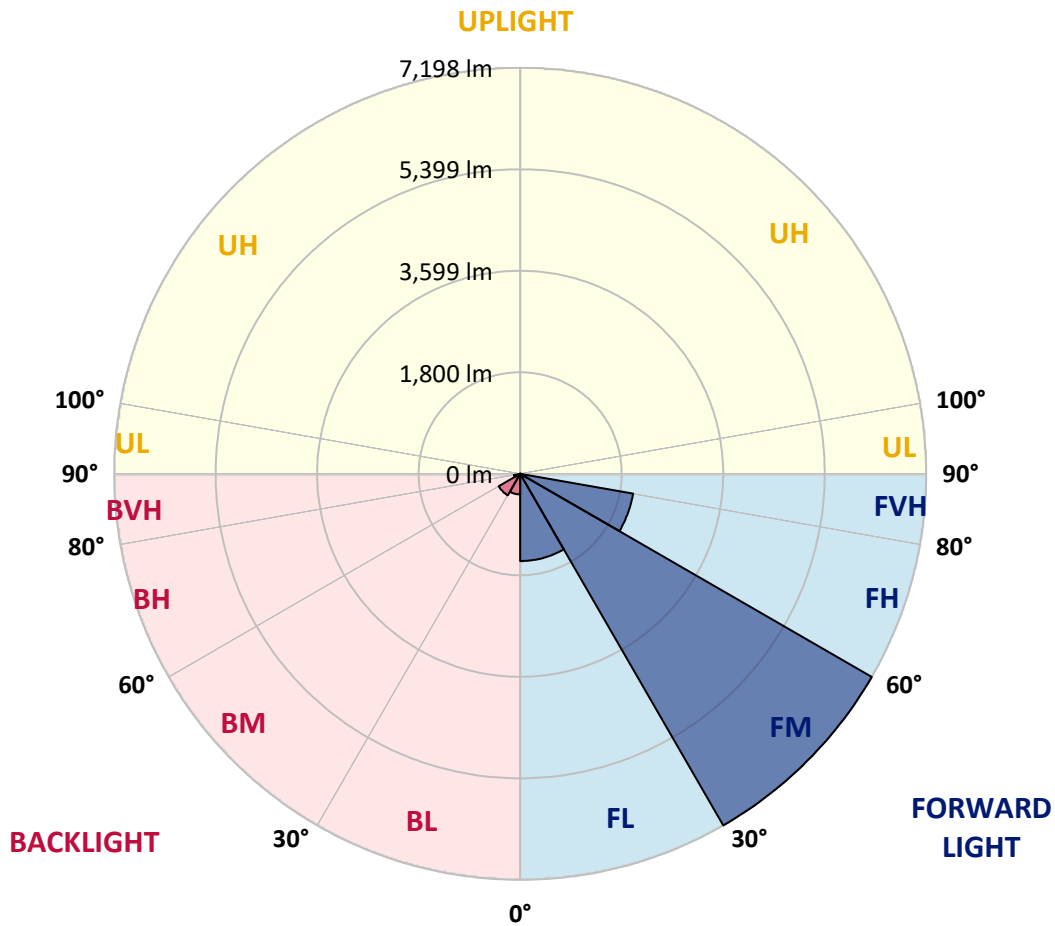
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1546.6	13.2			
FM (30°-60°)	7198.3	61.5			
FH (60°-80°)	2032.4	17.4			G2/5000
FVH (80°-90°)	20.0	0.2			G1/100
BL (0°-30°)	365.2	3.1	B1/500		
BM (30°-60°)	439.3	3.8	B1/1000		
BH (60°-80°)	108.8	0.9	B0/110		G0/110
BVH (80°-90°)	1.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2822.3	2822.3	2822.3	2822.3	2822.3	2822.3	2822.3	2822.3	2822.3	2822.3
2.5°	3501.9	3457.8	3451.3	3442.7	3358.9	3296.1	3205.1	3105.4	2993.5	2879.4
5°	4045.7	4011.0	4004.5	3964.1	3868.8	3761.9	3600.1	3395.7	3187.0	2941.5
7.5°	4151.1	4144.6	4174.2	4172.8	4159.8	4075.3	3938.8	3695.4	3382.0	3018.0
10°	3681.0	3697.6	3785.7	3863.0	4071.7	4193.0	4163.4	3962.6	3582.8	3105.4
12.5°	3252.7	3233.2	3296.1	3383.4	3626.1	3987.2	4256.6	4185.8	3812.4	3204.3
15°	2984.1	2976.1	3011.5	3052.0	3236.8	3600.8	4148.2	4367.1	4033.4	3321.3
17.5°	2898.1	2891.6	2902.5	2912.6	3032.5	3314.1	3890.4	4478.3	4245.0	3454.9
20°	2968.2	2959.5	2958.1	2950.1	3000.0	3192.1	3657.2	4486.2	4434.9	3576.3
22.5°	3172.6	3162.5	3127.1	3095.3	3099.6	3208.7	3553.2	4406.8	4577.9	3689.6
25°	3543.0	3526.4	3452.8	3345.9	3278.0	3324.2	3569.0	4302.1	4714.4	3778.5
27.5°	4006.7	3985.0	3890.4	3731.5	3576.3	3519.9	3683.9	4229.8	4827.8	3846.4
30°	4460.9	4432.8	4339.6	4216.1	3989.4	3811.7	3891.1	4261.6	4962.9	3917.1
32.5°	4951.3	4924.6	4801.1	4648.0	4460.2	4221.2	4175.0	4416.9	5128.2	4016.1
35°	5571.7	5529.8	5354.3	5145.6	4946.3	4704.3	4559.2	4684.8	5348.5	4167.0
37.5°	6278.0	6221.6	6032.4	5744.3	5484.3	5213.5	5027.1	5053.1	5671.3	4369.2
40°	6943.8	6892.5	6717.8	6446.2	6119.8	5791.2	5592.6	5534.8	6116.9	4615.5
42.5°	7343.2	7297.0	7223.3	7108.5	6833.3	6498.2	6247.6	6122.7	6644.1	4910.1
45°	7365.6	7325.1	7424.1	7557.7	7503.5	7280.4	6974.9	6745.9	7173.5	5186.7
47.5°	7007.4	6979.9	7280.4	7746.9	7979.4	8073.3	7791.7	7317.2	7610.4	5385.3
50°	6031.0	6020.9	6639.1	7495.6	8160.7	8768.1	8653.2	7848.7	7949.1	5487.9
52.5°	5229.3	5192.5	5552.9	6691.1	7897.1	9133.5	9495.3	8370.1	8186.0	5507.4
55°	3966.2	3933.7	4385.8	5344.9	7047.1	9003.5	10111.3	8908.2	8355.7	5457.6
57.5°	2127.6	2107.3	2678.6	3557.5	5508.8	8223.5	10222.5	9477.2	8498.7	5325.4
60°	828.3	824.7	1038.5	1726.0	3348.1	6690.3	9661.4	9818.8	8588.2	5162.9
62.5°	501.2	512.0	546.7	774.9	1479.0	4156.2	8368.0	9430.3	8648.2	5014.1
65°	414.5	415.3	419.6	532.3	708.5	1739.0	6299.6	8152.0	8500.1	4749.1
67.5°	355.3	361.8	378.4	422.5	499.8	762.6	3626.8	6314.8	7599.6	4132.3
70°	280.2	288.9	309.8	347.4	385.6	477.4	1340.4	4201.7	5805.7	3114.8
72.5°	236.2	235.4	246.3	282.4	306.2	335.8	515.6	2354.3	3374.1	1487.0
75°	182.7	189.9	203.7	236.2	250.6	243.4	279.5	860.1	1208.9	450.6
77.5°	143.0	148.8	161.0	192.8	207.3	172.6	161.0	307.7	388.5	161.8
80°	64.3	69.3	109.8	142.3	169.0	119.2	87.4	157.4	172.6	73.7
82.5°	11.6	19.5	64.3	75.1	86.7	77.3	45.5	81.6	84.5	29.6
85°	0.7	1.4	22.4	27.4	34.7	25.3	13.7	32.5	28.2	10.1
87.5°	0.0	0.0	0.0	0.7	0.7	3.6	4.3	5.8	4.3	3.6
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°
2822.3	0°	2822.3	2822.3	2822.3	2822.3	2822.3	2822.3	2822.3	2822.3	2822.3	2822.3
2828.8	2.5°	2776.8	2674.3	2574.6	2493.0	2445.3	2364.4	2311.0	2302.3	2279.9	2299.4
2836.0	5°	2723.4	2539.9	2354.3	2188.2	2051.7	1875.5	1744.1	1688.5	1640.1	1656.7
2854.8	7.5°	2698.1	2408.5	2119.6	1835.8	1544.0	1262.4	1052.9	965.6	899.1	908.5
2875.7	10°	2664.1	2272.0	1819.2	1385.9	995.2	717.1	572.7	519.3	489.6	490.4
2906.8	12.5°	2638.1	2108.8	1470.4	939.6	605.9	457.9	413.1	400.1	391.4	392.1
2953.7	15°	2625.1	1916.7	1125.9	626.1	433.3	387.8	377.0	371.2	365.4	364.7
3005.7	17.5°	2603.5	1702.9	824.0	457.1	379.1	363.3	353.9	347.4	340.1	338.7
3050.5	20°	2571.0	1460.3	602.3	386.4	355.3	343.0	330.0	321.4	312.7	311.3
3078.7	22.5°	2511.0	1203.9	462.9	357.5	338.0	324.3	308.4	298.3	289.6	288.2
3065.0	25°	2399.8	963.4	390.0	339.4	322.8	306.2	288.9	275.2	267.2	265.8
3035.3	27.5°	2259.0	756.9	353.9	322.8	303.3	288.2	268.7	255.7	248.4	247.0
2996.4	30°	2092.9	582.8	332.9	304.0	280.2	267.2	249.9	239.0	234.7	234.7
2968.9	32.5°	1913.8	465.8	324.3	285.3	260.0	245.5	231.8	227.5	226.0	225.3
2984.1	35°	1745.5	404.4	319.9	270.1	241.9	228.2	222.4	223.2	226.0	226.0
3031.0	37.5°	1596.0	384.9	317.8	259.3	226.0	213.8	217.4	223.9	221.0	221.0
3113.3	40°	1461.0	387.1	316.3	251.3	213.0	205.8	213.0	208.0	200.8	200.0
3213.7	42.5°	1357.7	405.1	313.4	244.8	205.1	200.0	197.2	189.2	188.5	189.9
3317.7	45°	1282.6	421.0	312.7	241.9	196.4	187.0	183.4	175.5	189.9	193.5
3360.3	47.5°	1193.8	421.0	312.7	231.8	182.0	178.4	172.6	163.9	178.4	182.0
3319.9	50°	1078.9	394.3	300.4	220.3	170.4	168.3	158.2	147.3	144.4	146.6
3225.3	52.5°	933.8	345.9	269.4	204.4	158.9	154.5	142.3	134.3	132.2	132.2
3055.6	55°	768.4	289.6	227.5	181.3	146.6	138.7	130.0	126.4	124.2	122.8
2818.0	57.5°	624.7	237.6	182.7	161.0	135.0	124.9	122.0	117.7	114.1	111.9
2619.4	60°	512.8	187.0	150.9	143.0	123.5	114.1	113.4	107.6	98.2	96.8
2455.4	62.5°	395.8	137.2	127.1	124.2	111.9	104.0	102.6	91.0	76.6	73.7
2222.9	65°	279.5	106.9	102.6	109.1	99.7	92.4	88.8	71.5	56.3	54.2
1860.4	67.5°	196.4	89.6	80.9	95.3	86.7	77.3	75.1	60.7	46.9	45.5
1406.8	70°	140.1	72.9	66.4	81.6	69.3	67.9	63.6	50.6	38.3	36.8
696.2	72.5°	98.9	55.6	51.3	70.8	47.7	58.5	52.0	39.0	28.9	27.4
236.9	75°	72.9	39.7	36.1	41.2	34.7	44.1	36.8	26.0	18.1	17.3
106.9	77.5°	53.4	25.3	21.7	20.2	20.2	27.4	20.2	10.8	7.9	7.2
54.2	80°	37.6	11.6	10.1	8.7	7.9	6.5	2.9	1.4	0.7	0.7
18.8	82.5°	22.4	5.1	5.1	3.6	2.2	0.0	0.0	0.0	0.0	0.0
7.2	85°	5.1	2.2	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
2.9	87.5°	0.7	0.7	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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