

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: P955164

Luminaire Tested: **GALN-SB8A-950-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955164
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-SB8A-950-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 21514 lumens
Efficiency: N/A
Efficacy: 94.7 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

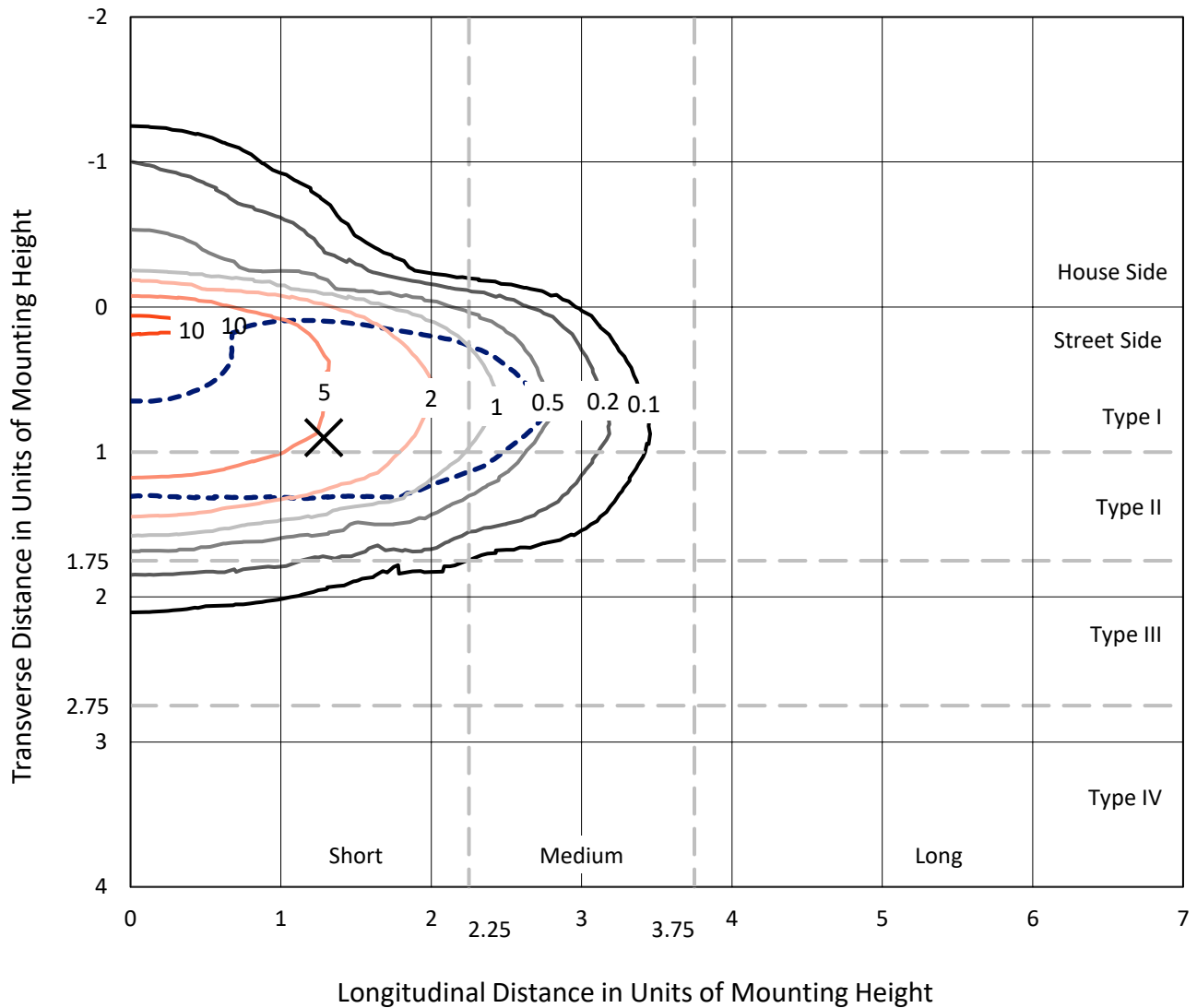
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

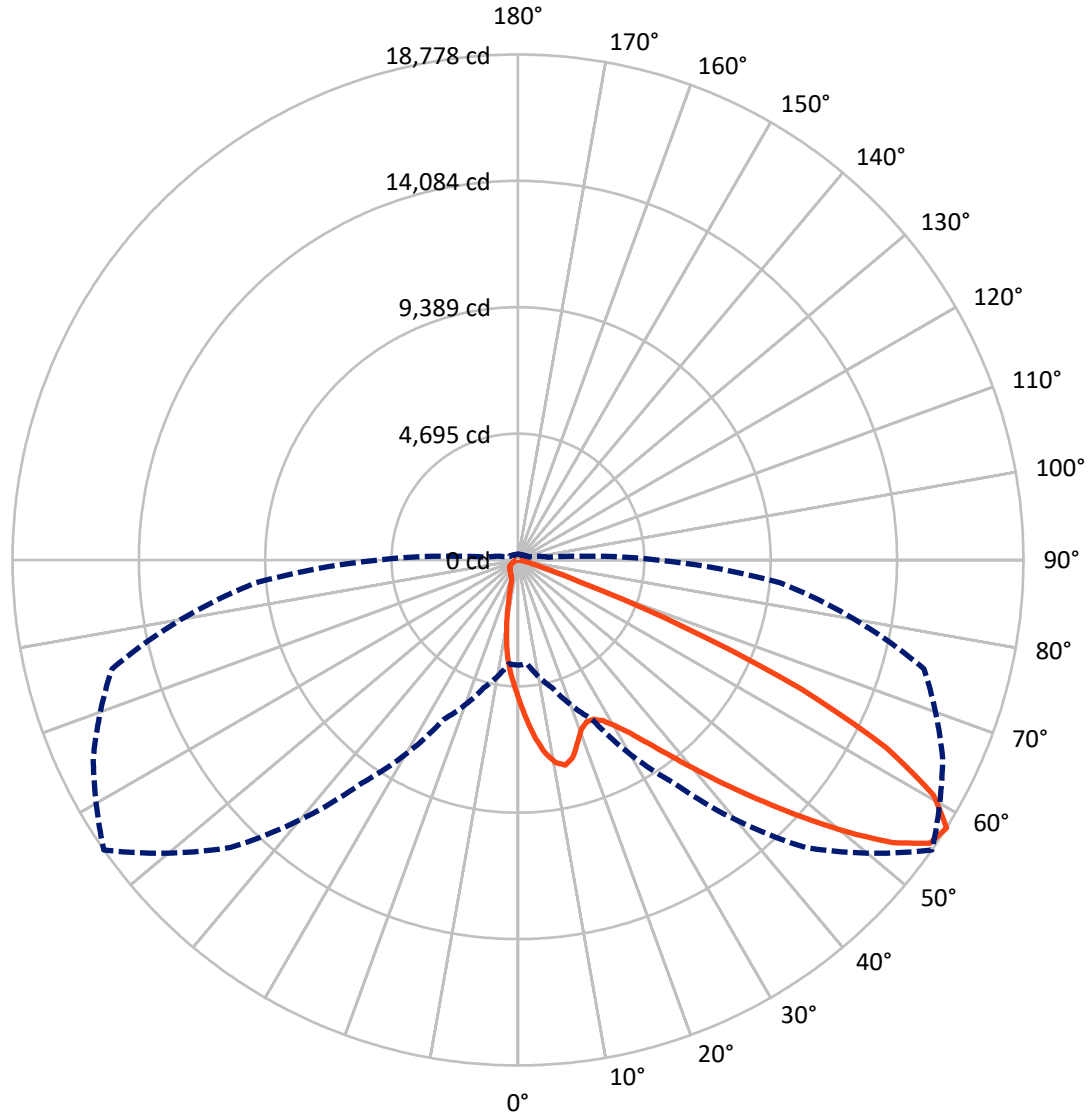
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	1680.2	0.0	1680.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	19833.8	0.0	19833.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	21514.0	0.0	21514.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.4	2.2
10°-20°	1165.2	5.4
20°-30°	1864.3	8.7
30°-40°	3155.4	14.7
40°-50°	5180.5	24.1
50°-60°	5693.7	26.5
60°-70°	3265.9	15.2
70°-80°	667.3	3.1
80°-90°	39.4	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°	21514.0	100.0
0°-180°	21514.0	100.0

Coefficient of Utilization



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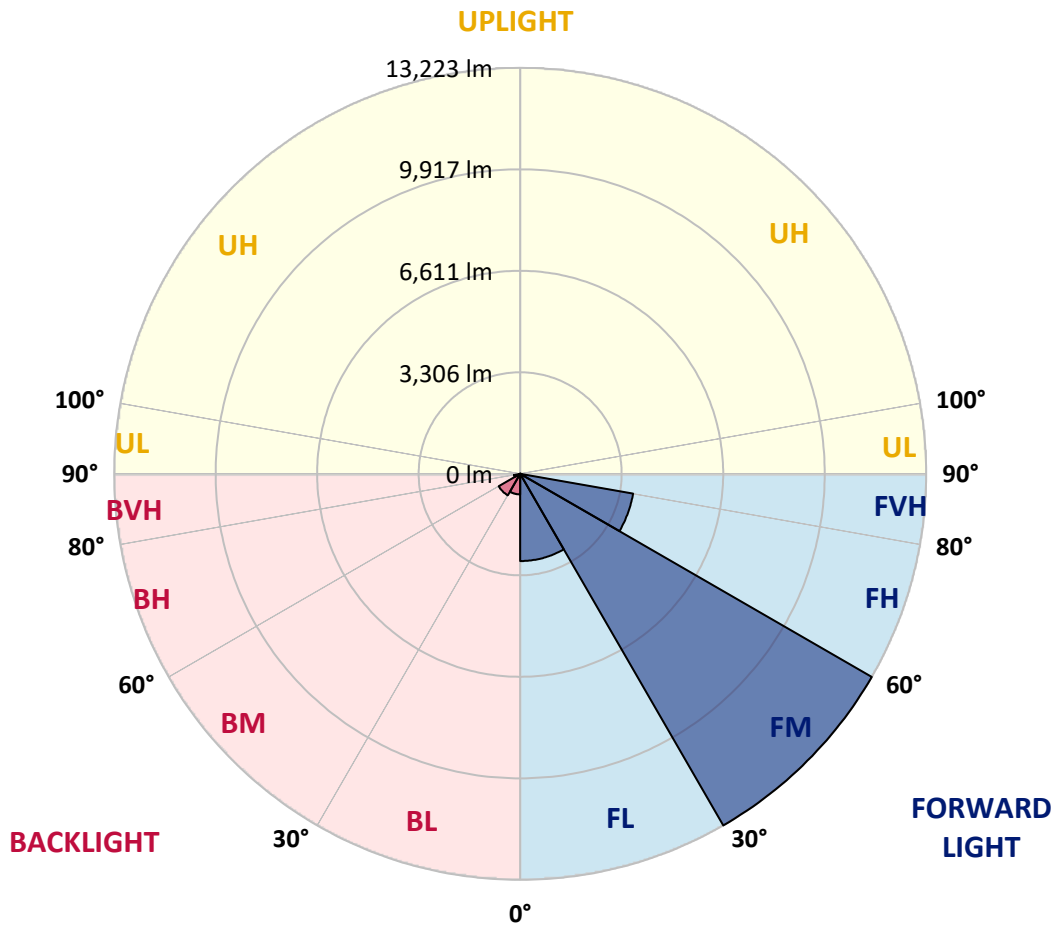
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2841.1	13.2			
FM (30°-60°)	13222.7	61.5			
FH (60°-80°)	3733.4	17.4			G2/5000
FVH (80°-90°)	36.7	0.2			G1/100
BL (0°-30°)	670.8	3.1	B2/1000		
BM (30°-60°)	806.9	3.8	B1/1000		
BH (60°-80°)	199.8	0.9	B1/500		G1/500
BVH (80°-90°)	2.7	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°	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3
2.5°	6432.7	6351.7	6339.8	6323.9	6170.0	6054.6	5887.4	5704.4	5498.7	5289.1
5°	7431.6	7367.9	7356.0	7281.7	7106.6	6910.2	6613.1	6237.7	5854.3	5403.2
7.5°	7625.3	7613.3	7667.7	7665.1	7641.2	7486.0	7235.3	6788.2	6212.5	5543.9
10°	6761.7	6792.2	6954.0	7096.0	7479.4	7702.2	7647.8	7279.0	6581.3	5704.4
12.5°	5975.0	5939.2	6054.6	6215.1	6660.8	7324.1	7819.0	7689.0	7003.1	5886.1
15°	5481.5	5466.9	5531.9	5606.2	5945.8	6614.4	7620.0	8021.9	7409.0	6101.0
17.5°	5323.6	5311.7	5331.6	5350.2	5570.4	6087.8	7146.4	8226.2	7797.7	6346.4
20°	5452.3	5436.4	5433.7	5419.2	5510.7	5863.6	6717.9	8240.8	8146.6	6569.3
22.5°	5827.7	5809.2	5744.2	5685.8	5693.8	5894.1	6526.9	8094.9	8409.3	6777.6
25°	6508.3	6477.8	6342.5	6146.1	6021.4	6106.3	6556.0	7902.5	8660.0	6940.8
27.5°	7360.0	7320.2	7146.4	6854.5	6569.3	6465.8	6767.0	7769.9	8868.3	7065.5
30°	8194.4	8142.7	7971.5	7744.7	7328.1	7001.8	7147.7	7828.3	9116.4	7195.5
32.5°	9095.2	9046.1	8819.2	8538.0	8193.1	7754.0	7669.1	8113.5	9420.2	7377.2
35°	10234.7	10157.8	9835.4	9452.0	9085.9	8641.5	8374.8	8605.6	9824.8	7654.5
37.5°	11532.1	11428.6	11081.1	10551.8	10074.2	9576.7	9234.4	9282.2	10417.8	8025.9
40°	12755.2	12661.0	12340.0	11841.2	11241.6	10638.0	10273.2	10167.0	11236.3	8478.3
42.5°	13488.8	13403.9	13268.6	13057.7	12552.3	11936.7	11476.4	11246.9	12204.7	9019.5
45°	13530.0	13455.7	13637.4	13882.8	13783.4	13373.4	12812.3	12391.7	13177.1	9527.6
47.5°	12872.0	12821.6	13373.4	14230.4	14657.6	14830.0	14312.7	13441.1	13979.7	9892.4
50°	11078.4	11059.8	12195.4	13768.8	14990.6	16106.2	15895.3	14417.5	14601.9	10080.8
52.5°	9605.9	9538.2	10200.2	12290.9	14506.3	16777.5	17442.1	15375.3	15037.0	10116.6
55°	7285.7	7226.0	8056.4	9818.1	12944.9	16538.7	18573.7	16363.6	15348.7	10025.1
57.5°	3908.2	3871.0	4920.4	6534.8	10119.3	15106.0	18778.0	17408.9	15611.4	9782.3
60°	1521.6	1515.0	1907.6	3170.6	6150.1	12289.6	17747.2	18036.4	15775.9	9483.8
62.5°	920.7	940.6	1004.2	1423.4	2716.9	7634.6	15371.3	17322.7	15886.0	9210.6
65°	761.5	762.8	770.8	977.7	1301.4	3194.4	11571.9	14974.6	15614.1	8723.7
67.5°	652.7	664.6	695.1	776.1	918.0	1400.9	6662.2	11599.8	13959.8	7590.8
70°	514.7	530.6	569.1	638.1	708.4	876.9	2462.2	7718.1	10664.5	5721.6
72.5°	433.8	432.5	452.4	518.7	562.5	616.9	947.2	4324.7	6197.9	2731.5
75°	335.6	348.9	374.1	433.8	460.3	447.1	513.4	1580.0	2220.7	827.8
77.5°	262.7	273.3	295.8	354.2	380.7	317.1	295.8	565.1	713.7	297.2
80°	118.1	127.4	201.6	261.3	310.4	218.9	160.5	289.2	317.1	135.3
82.5°	21.2	35.8	118.1	138.0	159.2	141.9	83.6	149.9	155.2	54.4
85°	1.3	2.7	41.1	50.4	63.7	46.4	25.2	59.7	51.7	18.6
87.5°	0.0	0.0	0.0	1.3	1.3	6.6	8.0	10.6	8.0	6.6
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°
5184.3	0°	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3
5196.3	2.5°	5100.8	4912.4	4729.3	4579.4	4491.9	4343.3	4245.1	4229.2	4188.1	4223.9
5209.5	5°	5002.6	4665.6	4324.7	4019.6	3768.9	3445.2	3203.7	3101.6	3012.7	3043.2
5244.0	7.5°	4956.2	4424.2	3893.6	3372.2	2836.3	2318.9	1934.2	1773.7	1651.6	1668.9
5282.5	10°	4893.8	4173.5	3341.7	2545.7	1828.1	1317.3	1052.0	953.8	899.4	900.8
5339.6	12.5°	4846.1	3873.7	2701.0	1725.9	1113.0	841.1	758.8	734.9	719.0	720.3
5425.8	15°	4822.2	3520.8	2068.2	1150.2	796.0	712.4	692.5	681.9	671.3	669.9
5521.3	17.5°	4782.4	3128.1	1513.6	839.7	696.5	667.3	650.0	638.1	624.8	622.2
5603.5	20°	4722.7	2682.4	1106.4	709.7	652.7	630.1	606.3	590.3	574.4	571.8
5655.3	22.5°	4612.6	2211.4	850.3	656.7	620.8	595.6	566.5	547.9	532.0	529.3
5630.1	25°	4408.3	1769.7	716.4	623.5	593.0	562.5	530.6	505.4	490.8	488.2
5575.7	27.5°	4149.6	1390.3	650.0	593.0	557.2	529.3	493.5	469.6	456.3	453.7
5504.1	30°	3844.5	1070.6	611.6	558.5	514.7	490.8	459.0	439.1	431.1	431.1
5453.6	32.5°	3515.5	855.7	595.6	524.0	477.6	451.0	425.8	417.9	415.2	413.9
5481.5	35°	3206.4	742.9	587.7	496.1	444.4	419.2	408.6	409.9	415.2	415.2
5567.7	37.5°	2931.8	707.1	583.7	476.2	415.2	392.7	399.3	411.2	405.9	405.9
5719.0	40°	2683.7	711.1	581.0	461.7	391.3	378.1	391.3	382.1	368.8	367.5
5903.4	42.5°	2494.0	744.2	575.7	449.7	376.8	367.5	362.2	347.6	346.2	348.9
6094.4	45°	2356.0	773.4	574.4	444.4	360.8	343.6	337.0	322.4	348.9	355.5
6172.7	47.5°	2192.9	773.4	574.4	425.8	334.3	327.7	317.1	301.1	327.7	334.3
6098.4	50°	1981.9	724.3	551.9	404.6	313.1	309.1	290.5	270.6	265.3	269.3
5924.6	52.5°	1715.3	635.4	494.8	375.4	291.9	283.9	261.3	246.7	242.8	242.8
5612.8	55°	1411.5	532.0	417.9	333.0	269.3	254.7	238.8	232.2	228.2	225.5
5176.4	57.5°	1147.5	436.5	335.6	295.8	248.1	229.5	224.2	216.2	209.6	205.6
4811.6	60°	941.9	343.6	277.3	262.7	226.8	209.6	208.3	197.7	180.4	177.8
4510.4	62.5°	727.0	252.1	233.5	228.2	205.6	191.0	188.4	167.2	140.6	135.3
4083.3	65°	513.4	196.3	188.4	200.3	183.1	169.8	163.2	131.3	103.5	99.5
3417.3	67.5°	360.8	164.5	148.6	175.1	159.2	141.9	138.0	111.4	86.2	83.6
2584.2	70°	257.4	134.0	122.0	149.9	127.4	124.7	116.7	92.9	70.3	67.7
1278.8	72.5°	181.7	102.1	94.2	130.0	87.6	107.5	95.5	71.6	53.1	50.4
435.1	75°	134.0	73.0	66.3	75.6	63.7	80.9	67.7	47.8	33.2	31.8
196.3	77.5°	98.2	46.4	39.8	37.1	37.1	50.4	37.1	19.9	14.6	13.3
99.5	80°	69.0	21.2	18.6	15.9	14.6	11.9	5.3	2.7	1.3	1.3
34.5	82.5°	41.1	9.3	9.3	6.6	4.0	0.0	0.0	0.0	0.0	0.0
13.3	85°	9.3	4.0	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
5.3	87.5°	1.3	1.3	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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