

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: P956403

Luminaire Tested: **GALN-SB9A-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956403
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-SB9A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 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: 30293 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

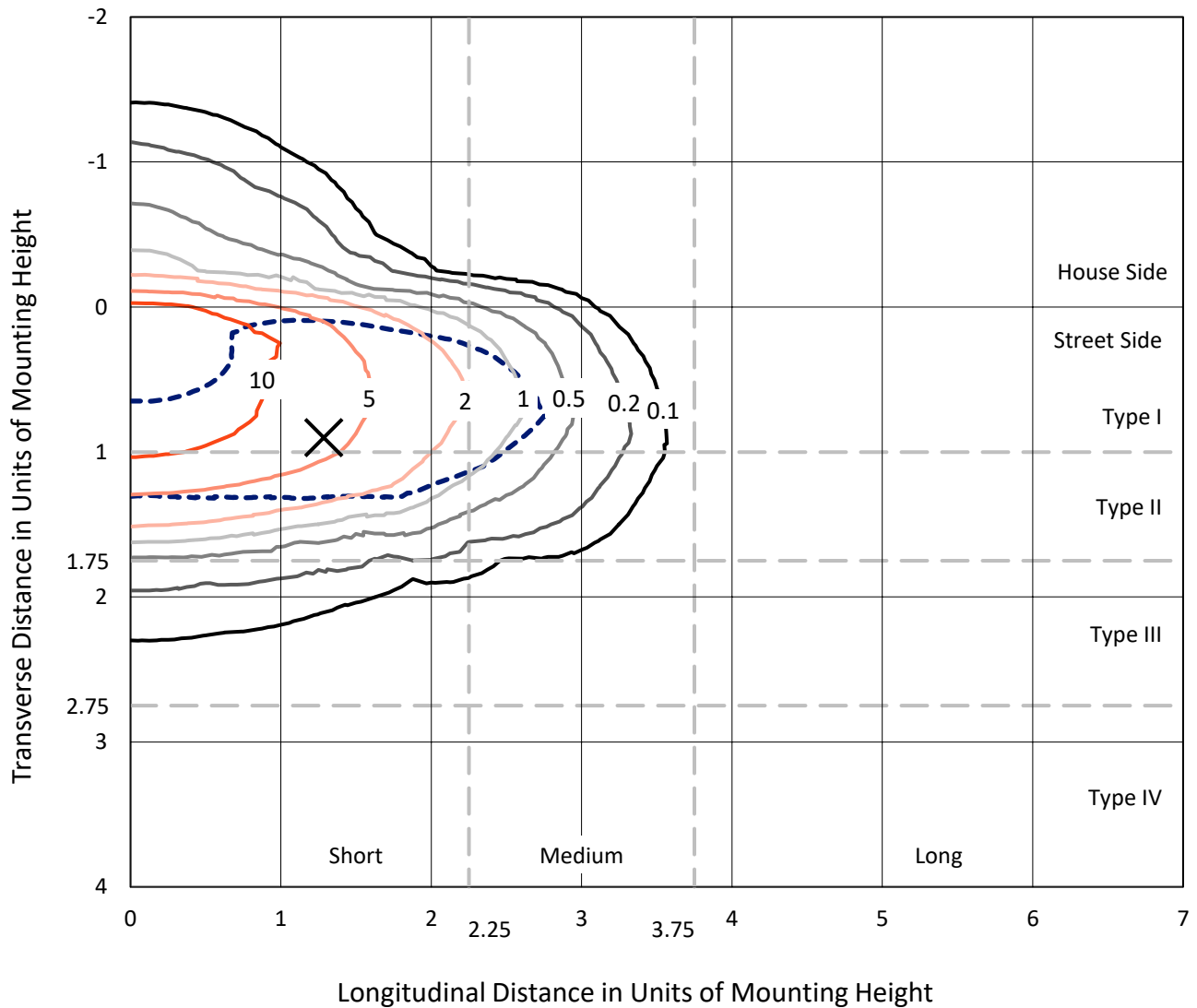
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

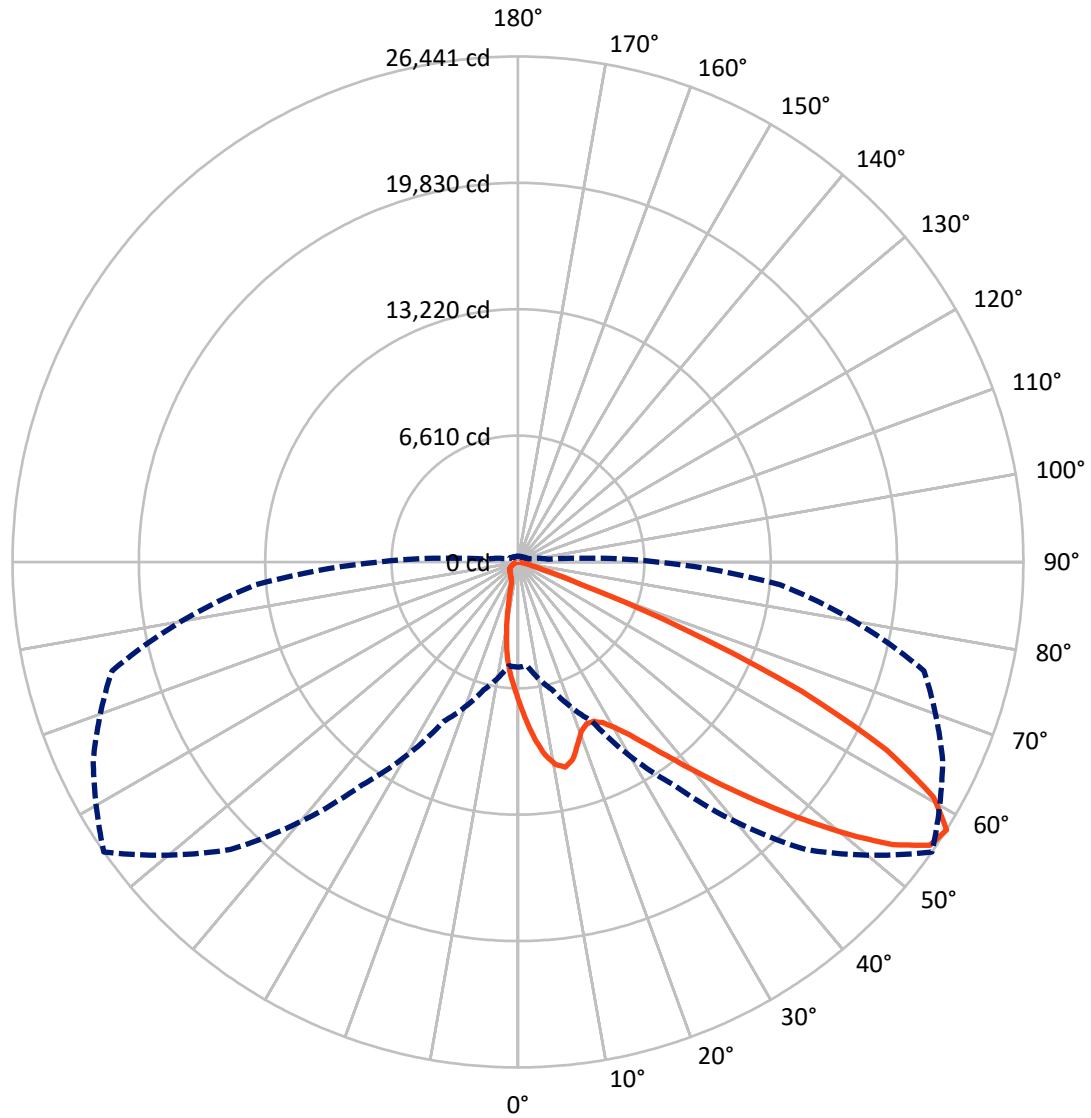
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 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	2365.8	0.0	2365.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	27927.2	0.0	27927.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	30293.0	0.0	30293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.2	2.2
10°-20°	1640.6	5.4
20°-30°	2625.0	8.7
30°-40°	4443.0	14.7
40°-50°	7294.4	24.1
50°-60°	8017.1	26.5
60°-70°	4598.6	15.2
70°-80°	939.6	3.1
80°-90°	55.4	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°	30293.0	100.0
0°-180°	30293.0	100.0

Coefficient of Utilization



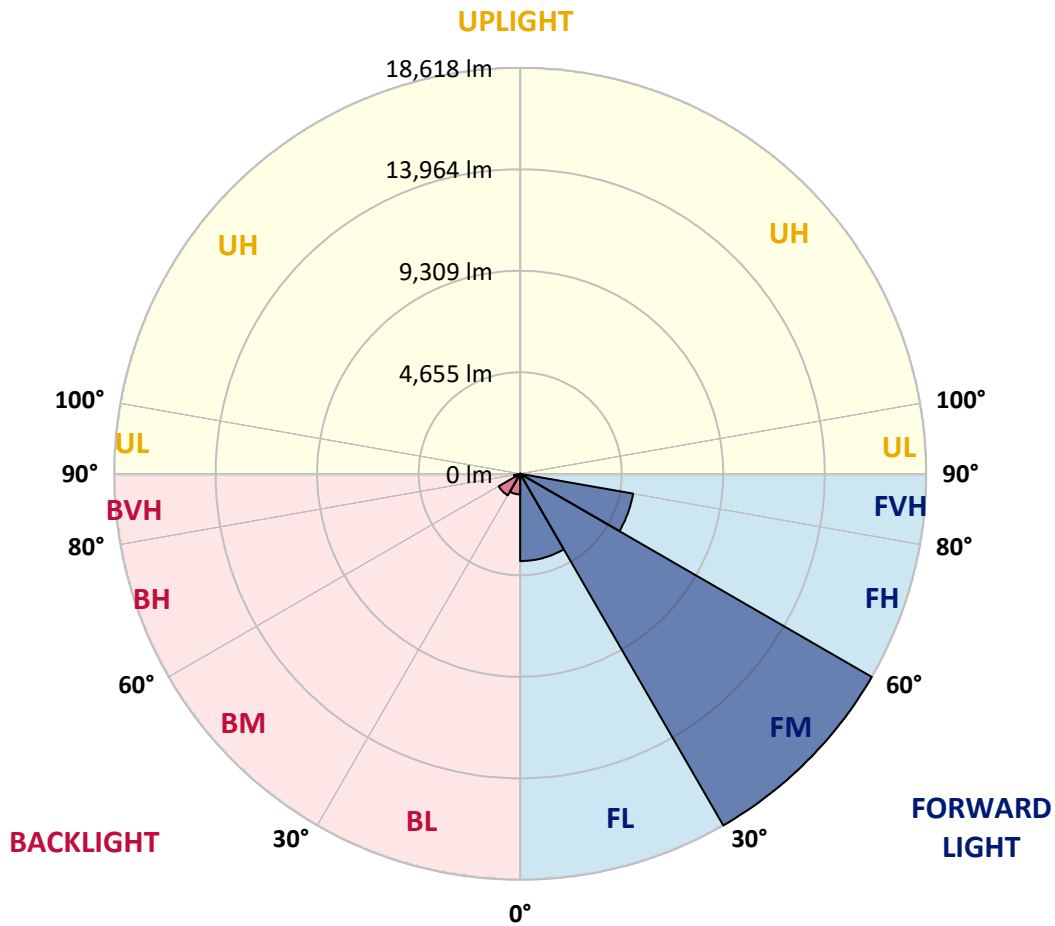
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4000.4	13.2			
FM (30°-60°)	18618.3	61.5			
FH (60°-80°)	5256.9	17.4			G3/7500
FVH (80°-90°)	51.7	0.2			G1/100
BL (0°-30°)	944.5	3.1	B2/1000		
BM (30°-60°)	1136.2	3.8	B2/2500		
BH (60°-80°)	281.4	0.9	B1/500		G1/500
BVH (80°-90°)	3.7	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7299.9	7299.9	7299.9	7299.9	7299.9	7299.9	7299.9	7299.9	7299.9	7299.9
2.5°	9057.6	8943.6	8926.8	8904.4	8687.7	8525.2	8289.9	8032.1	7742.6	7447.4
5°	10464.1	10374.5	10357.7	10253.1	10006.5	9730.0	9311.6	8783.0	8243.2	7608.1
7.5°	10736.9	10720.0	10796.6	10792.9	10759.3	10540.7	10187.7	9558.2	8747.5	7806.1
10°	9520.8	9563.8	9791.7	9991.6	10531.4	10845.2	10768.6	10249.3	9266.8	8032.1
12.5°	8413.2	8362.7	8525.2	8751.2	9378.9	10312.8	11009.6	10826.5	9860.8	8288.0
15°	7718.3	7697.7	7789.3	7893.9	8372.1	9313.5	10729.4	11295.4	10432.4	8590.6
17.5°	7496.0	7479.2	7507.2	7533.4	7843.4	8571.9	10062.5	11583.0	10979.7	8936.2
20°	7677.2	7654.8	7651.0	7630.5	7759.4	8256.2	9459.2	11603.6	11471.0	9250.0
22.5°	8205.8	8179.7	8088.1	8005.9	8017.2	8299.2	9190.2	11398.1	11840.8	9543.2
25°	9164.1	9121.1	8930.6	8654.1	8478.5	8598.1	9231.3	11127.3	12193.8	9773.0
27.5°	10363.3	10307.2	10062.5	9651.6	9250.0	9104.3	9528.3	10940.5	12487.1	9948.6
30°	11538.2	11465.3	11224.4	10905.0	10318.4	9858.9	10064.4	11022.6	12836.4	10131.6
32.5°	12806.5	12737.4	12418.0	12022.0	11536.3	10918.0	10798.5	11424.3	13264.2	10387.6
35°	14411.1	14302.7	13848.8	13309.0	12793.4	12167.7	11792.2	12117.3	13833.9	10778.0
37.5°	16237.9	16092.2	15602.8	14857.5	14185.1	13484.6	13002.7	13069.9	14668.8	11301.0
40°	17960.1	17827.5	17375.5	16673.1	15828.8	14978.9	14465.2	14315.8	15821.4	11937.9
42.5°	18993.1	18873.6	18683.0	18386.0	17674.3	16807.6	16159.5	15836.3	17184.9	12700.0
45°	19051.0	18946.4	19202.3	19547.9	19407.8	18830.6	18040.5	17448.3	18554.1	13415.5
47.5°	18124.5	18053.5	18830.6	20037.3	20638.7	20881.6	20153.1	18925.9	19684.2	13929.1
50°	15599.1	15572.9	17171.9	19387.2	21107.6	22678.5	22381.5	20300.7	20560.3	14194.4
52.5°	13525.7	13430.4	14362.5	17306.4	20425.8	23623.7	24559.5	21649.3	21173.0	14244.8
55°	10258.7	10174.6	11343.9	13824.5	18227.3	23287.5	26152.9	23040.9	21611.9	14115.9
57.5°	5502.9	5450.6	6928.1	9201.4	14248.6	21270.1	26440.5	24512.8	21981.8	13774.1
60°	2142.5	2133.2	2686.1	4464.4	8659.7	17304.5	24989.2	25396.4	22213.4	13353.8
62.5°	1296.3	1324.4	1414.0	2004.3	3825.5	10749.9	21643.7	24391.4	22368.4	12969.0
65°	1072.2	1074.1	1085.3	1376.7	1832.4	4498.0	16293.9	21085.2	21985.5	12283.5
67.5°	919.0	935.8	978.8	1092.7	1292.6	1972.5	9380.7	16333.2	19656.2	10688.3
70°	724.8	747.2	801.3	898.5	997.5	1234.7	3466.9	10867.6	15016.3	8056.4
72.5°	610.8	608.9	637.0	730.4	792.0	868.6	1333.7	6089.4	8727.0	3846.1
75°	472.6	491.3	526.8	610.8	648.2	629.5	722.9	2224.7	3126.9	1165.6
77.5°	369.8	384.8	416.5	498.7	536.1	446.4	416.5	795.7	1004.9	418.4
80°	166.2	179.3	283.9	368.0	437.1	308.2	226.0	407.2	446.4	190.5
82.5°	29.9	50.4	166.2	194.3	224.2	199.9	117.7	211.1	218.5	76.6
85°	1.9	3.7	57.9	71.0	89.7	65.4	35.5	84.1	72.8	26.2
87.5°	0.0	0.0	0.0	1.9	1.9	9.3	11.2	14.9	11.2	9.3
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°
7299.9	0°	7299.9	7299.9	7299.9	7299.9	7299.9	7299.9	7299.9	7299.9	7299.9	7299.9
7316.7	2.5°	7182.2	6916.9	6659.2	6448.1	6324.8	6115.6	5977.4	5955.0	5897.1	5947.5
7335.4	5°	7044.0	6569.5	6089.4	5659.8	5306.8	4851.0	4511.0	4367.2	4242.1	4285.0
7383.9	7.5°	6978.6	6229.5	5482.4	4748.3	3993.6	3265.1	2723.4	2497.4	2325.6	2349.9
7438.1	10°	6890.8	5876.5	4705.3	3584.6	2574.0	1854.9	1481.3	1343.0	1266.5	1268.3
7518.4	12.5°	6823.5	5454.4	3803.1	2430.2	1567.2	1184.3	1068.5	1034.8	1012.4	1014.3
7639.8	15°	6789.9	4957.5	2912.1	1619.5	1120.8	1003.1	975.1	960.1	945.2	943.3
7774.3	17.5°	6733.9	4404.6	2131.3	1182.4	980.7	939.6	915.3	898.5	879.8	876.1
7890.1	20°	6649.8	3777.0	1557.9	999.3	919.0	887.3	853.6	831.2	808.8	805.1
7963.0	22.5°	6494.8	3113.8	1197.3	924.6	874.2	838.7	797.6	771.5	749.0	745.3
7927.5	25°	6207.1	2491.8	1008.7	877.9	835.0	792.0	747.2	711.7	691.1	687.4
7850.9	27.5°	5842.9	1957.6	915.3	835.0	784.5	745.3	694.9	661.2	642.6	638.8
7750.0	30°	5413.3	1507.4	861.1	786.4	724.8	691.1	646.3	618.3	607.1	607.1
7679.1	32.5°	4950.0	1204.8	838.7	737.8	672.5	635.1	599.6	588.4	584.7	582.8
7718.3	35°	4514.8	1046.0	827.5	698.6	625.8	590.3	575.3	577.2	584.7	584.7
7839.7	37.5°	4128.1	995.6	821.9	670.6	584.7	552.9	562.2	579.1	571.6	571.6
8052.6	40°	3778.8	1001.2	818.2	650.0	551.0	532.4	551.0	538.0	519.3	517.4
8312.3	42.5°	3511.7	1047.9	810.7	633.2	530.5	517.4	509.9	489.4	487.5	491.3
8581.3	45°	3317.4	1089.0	808.8	625.8	508.1	483.8	474.5	453.9	491.3	500.6
8691.5	47.5°	3087.7	1089.0	808.8	599.6	470.7	461.4	446.4	424.0	461.4	470.7
8586.9	50°	2790.7	1019.9	777.1	569.7	440.8	435.2	409.1	381.1	373.6	379.2
8342.2	52.5°	2415.2	894.7	696.7	528.6	410.9	399.7	368.0	347.4	341.8	341.8
7903.2	55°	1987.5	749.0	588.4	468.9	379.2	358.6	336.2	326.9	321.3	317.5
7288.7	57.5°	1615.8	614.5	472.6	416.5	349.3	323.2	315.7	304.5	295.1	289.5
6775.0	60°	1326.2	483.8	390.4	369.8	319.4	295.1	293.3	278.3	254.0	250.3
6351.0	62.5°	1023.6	354.9	328.8	321.3	289.5	269.0	265.2	235.4	198.0	190.5
5749.5	65°	722.9	276.5	265.2	282.1	257.8	239.1	229.8	184.9	145.7	140.1
4811.8	67.5°	508.1	231.6	209.2	246.6	224.2	199.9	194.3	156.9	121.4	117.7
3638.7	70°	362.4	188.7	171.8	211.1	179.3	175.6	164.4	130.8	99.0	95.3
1800.7	72.5°	255.9	143.8	132.6	183.1	123.3	151.3	134.5	100.9	74.7	71.0
612.7	75°	188.7	102.7	93.4	106.5	89.7	113.9	95.3	67.2	46.7	44.8
276.5	77.5°	138.2	65.4	56.0	52.3	52.3	71.0	52.3	28.0	20.5	18.7
140.1	80°	97.1	29.9	26.2	22.4	20.5	16.8	7.5	3.7	1.9	1.9
48.6	82.5°	57.9	13.1	13.1	9.3	5.6	0.0	0.0	0.0	0.0	0.0
18.7	85°	13.1	5.6	5.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
7.5	87.5°	1.9	1.9	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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