

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: P950439

Luminaire Tested: **GALN-SB4D-927-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950439
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-SB4D-927-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 900mA 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: 21166 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

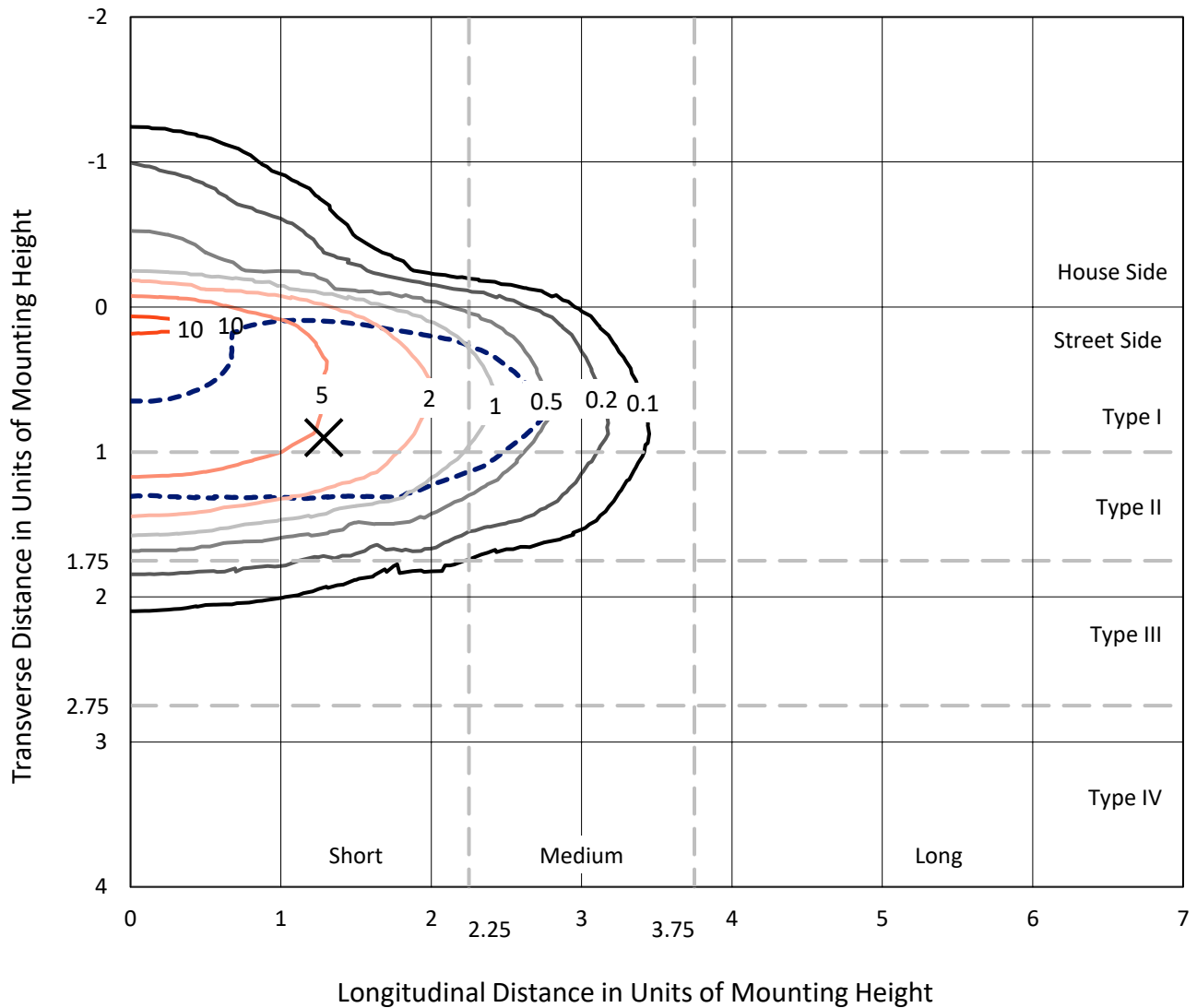
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

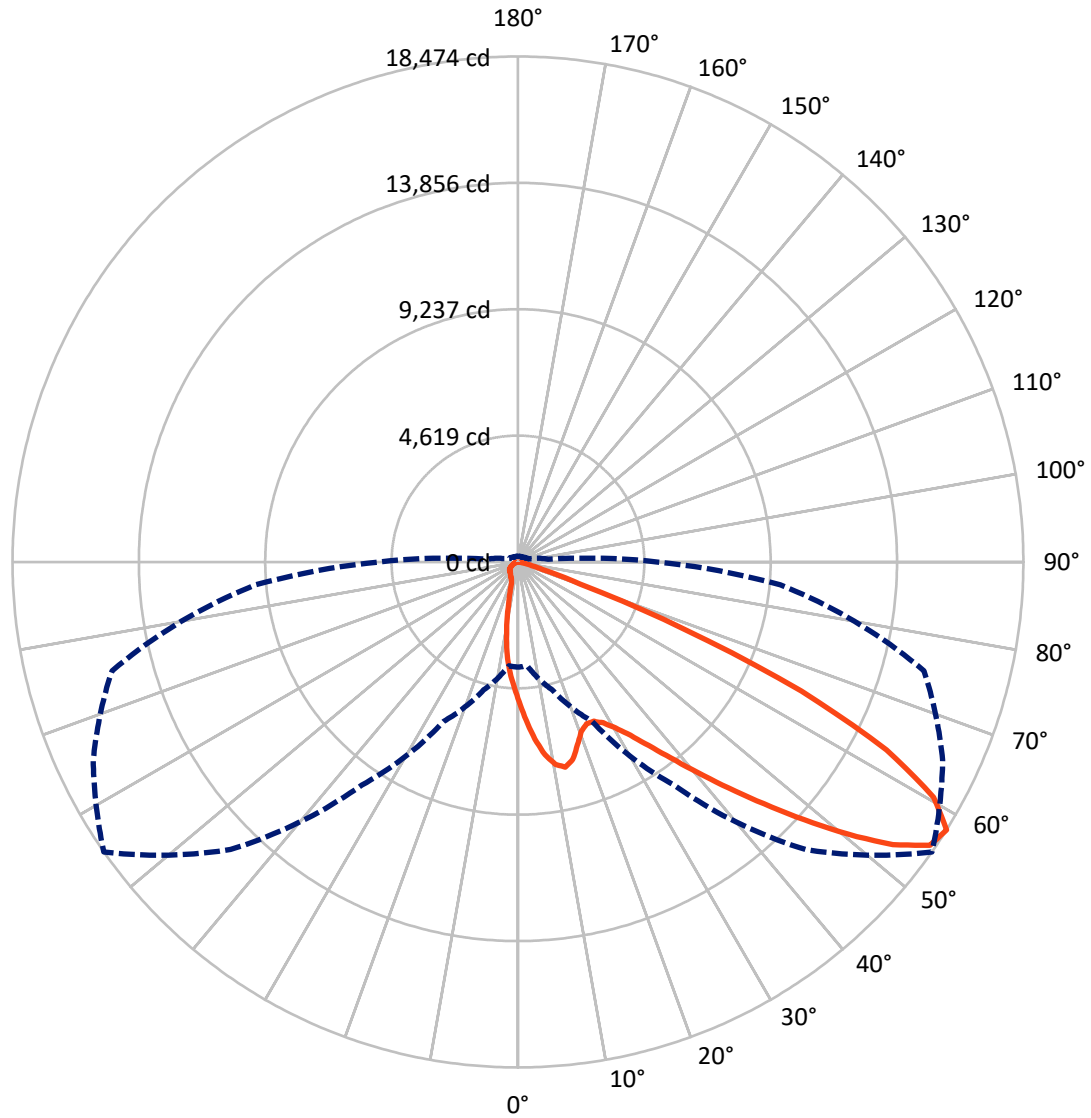
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	1653.0	0.0	1653.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	19513.0	0.0	19513.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	21166.0	0.0	21166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.6	2.2
10°-20°	1146.3	5.4
20°-30°	1834.1	8.7
30°-40°	3104.3	14.7
40°-50°	5096.7	24.1
50°-60°	5601.6	26.5
60°-70°	3213.1	15.2
70°-80°	656.5	3.1
80°-90°	38.7	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°	21166.0	100.0
0°-180°	21166.0	100.0

Coefficient of Utilization



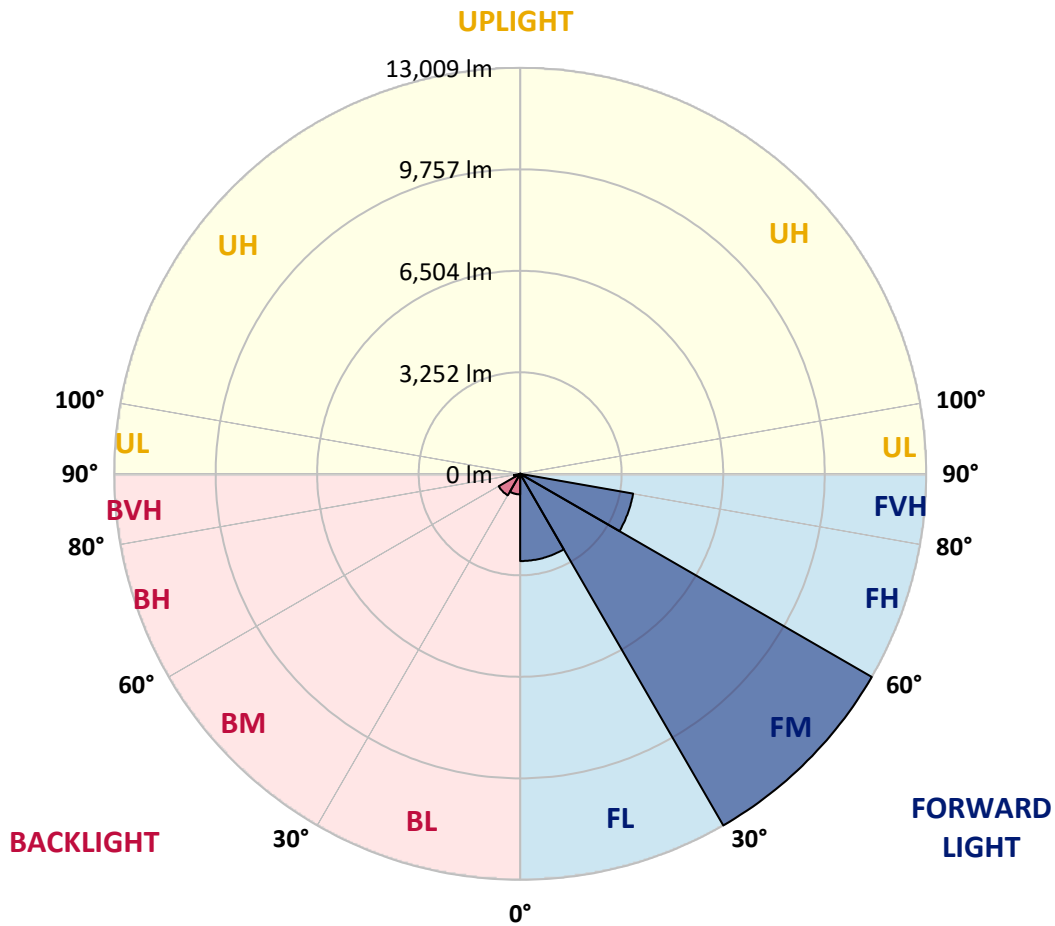
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2795.1	13.2			
FM (30°-60°)	13008.8	61.5			
FH (60°-80°)	3673.0	17.4			G2/5000
FVH (80°-90°)	36.1	0.2			G1/100
BL (0°-30°)	659.9	3.1	B2/1000		
BM (30°-60°)	793.9	3.8	B1/1000		
BH (60°-80°)	196.6	0.9	B1/500		G1/500
BVH (80°-90°)	2.6	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°	5100.5	5100.5	5100.5	5100.5	5100.5	5100.5	5100.5	5100.5	5100.5	5100.5
2.5°	6328.6	6249.0	6237.3	6221.6	6070.2	5956.7	5792.2	5612.1	5409.8	5203.6
5°	7311.4	7248.7	7237.0	7163.9	6991.6	6798.5	6506.1	6136.8	5759.6	5315.8
7.5°	7501.9	7490.2	7543.7	7541.1	7517.6	7364.9	7118.2	6678.4	6112.0	5454.2
10°	6652.3	6682.3	6841.5	6981.2	7358.4	7577.6	7524.1	7161.3	6474.8	5612.1
12.5°	5878.3	5843.1	5956.7	6114.6	6553.1	7205.7	7692.5	7564.6	6889.8	5790.9
15°	5392.8	5378.5	5442.4	5515.5	5849.6	6507.4	7496.7	7892.2	7289.2	6002.3
17.5°	5237.5	5225.8	5245.4	5263.6	5480.3	5989.3	7030.8	8093.2	7671.6	6243.8
20°	5364.1	5348.5	5345.9	5331.5	5421.5	5768.7	6609.2	8107.5	8014.9	6463.0
22.5°	5733.5	5715.2	5651.3	5593.8	5601.7	5798.7	6421.3	7964.0	8273.3	6668.0
25°	6403.0	6373.0	6239.9	6046.7	5924.0	6007.6	6450.0	7774.7	8519.9	6828.5
27.5°	7240.9	7201.8	7030.8	6743.7	6463.0	6361.2	6657.5	7644.2	8724.9	6951.2
30°	8061.8	8010.9	7842.6	7619.4	7209.6	6888.5	7032.1	7701.6	8968.9	7079.1
32.5°	8948.0	8899.7	8676.6	8399.9	8060.5	7628.5	7545.0	7982.2	9267.8	7257.9
35°	10069.1	9993.5	9676.3	9299.1	8938.9	8501.7	8239.3	8466.4	9665.9	7530.7
37.5°	11345.6	11243.8	10901.8	10381.1	9911.2	9421.8	9085.1	9132.1	10249.3	7896.1
40°	12548.9	12456.2	12140.4	11649.7	11059.8	10465.9	10107.0	10002.6	11054.5	8341.1
42.5°	13270.7	13187.1	13054.0	12846.5	12349.2	11743.6	11290.8	11065.0	12007.3	8873.6
45°	13311.1	13238.0	13416.8	13658.3	13560.4	13157.1	12605.0	12191.3	12963.9	9373.5
47.5°	12663.8	12614.2	13157.1	14000.2	14420.5	14590.2	14081.1	13223.7	13753.6	9732.4
50°	10899.2	10880.9	11998.1	13546.0	14748.1	15845.7	15638.2	14184.3	14365.7	9917.8
52.5°	9450.5	9384.0	10035.2	12092.1	14271.7	16506.1	17160.0	15126.6	14793.8	9953.0
55°	7167.8	7109.1	7926.1	9659.3	12735.5	16271.2	18273.3	16098.9	15100.5	9862.9
57.5°	3844.9	3808.4	4840.8	6429.1	9955.6	14861.6	18474.2	17127.3	15358.9	9624.1
60°	1497.0	1490.5	1876.8	3119.3	6050.6	12090.8	17460.2	17744.7	15520.7	9330.4
62.5°	905.8	925.3	988.0	1400.4	2672.9	7511.1	15122.6	17042.5	15629.0	9061.6
65°	749.1	750.5	758.3	961.9	1280.3	3142.8	11384.7	14732.4	15361.5	8582.6
67.5°	642.1	653.9	683.9	763.5	903.2	1378.2	6554.4	11412.1	13734.0	7468.0
70°	506.4	522.1	559.9	627.8	696.9	862.7	2422.3	7593.3	10492.0	5629.1
72.5°	426.8	425.5	445.1	510.3	553.4	606.9	931.9	4254.8	6097.6	2687.3
75°	330.2	343.3	368.0	426.8	452.9	439.8	505.1	1554.4	2184.8	814.4
77.5°	258.4	268.9	291.0	348.5	374.6	311.9	291.0	556.0	702.2	292.4
80°	116.2	125.3	198.4	257.1	305.4	215.3	157.9	284.5	311.9	133.1
82.5°	20.9	35.2	116.2	135.7	156.6	139.6	82.2	147.5	152.7	53.5
85°	1.3	2.6	40.5	49.6	62.6	45.7	24.8	58.7	50.9	18.3
87.5°	0.0	0.0	0.0	1.3	1.3	6.5	7.8	10.4	7.8	6.5
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°
5100.5	0°	5100.5	5100.5	5100.5	5100.5	5100.5	5100.5	5100.5	5100.5	5100.5	5100.5
5112.2	2.5°	5018.3	4832.9	4652.8	4505.3	4419.2	4273.0	4176.4	4160.8	4120.3	4155.6
5125.3	5°	4921.7	4590.2	4254.8	3954.6	3707.9	3389.4	3151.9	3051.4	2964.0	2994.0
5159.2	7.5°	4876.0	4352.6	3830.6	3317.7	2790.4	2281.4	1902.9	1745.0	1624.9	1641.9
5197.1	10°	4814.7	4106.0	3287.6	2504.6	1798.5	1296.0	1035.0	938.4	884.9	886.2
5253.2	12.5°	4767.7	3811.0	2657.3	1698.0	1095.0	827.5	746.5	723.0	707.4	708.7
5338.0	15°	4744.2	3463.8	2034.7	1131.6	783.1	700.9	681.3	670.8	660.4	659.1
5432.0	17.5°	4705.0	3077.5	1489.2	826.2	685.2	656.5	639.5	627.8	614.7	612.1
5512.9	20°	4646.3	2639.0	1088.5	698.2	642.1	619.9	596.4	580.8	565.1	562.5
5563.8	22.5°	4538.0	2175.7	836.6	646.0	610.8	586.0	557.3	539.0	523.4	520.8
5539.0	25°	4337.0	1741.1	704.8	613.4	583.4	553.4	522.1	497.3	482.9	480.3
5485.5	27.5°	4082.5	1367.8	639.5	583.4	548.2	520.8	485.5	462.0	449.0	446.4
5415.0	30°	3782.3	1053.2	601.7	549.5	506.4	482.9	451.6	432.0	424.2	424.2
5365.4	32.5°	3458.6	841.8	586.0	515.5	469.9	443.7	418.9	411.1	408.5	407.2
5392.8	35°	3154.5	730.9	578.2	488.1	437.2	412.4	402.0	403.3	408.5	408.5
5477.7	37.5°	2884.4	695.6	574.3	468.5	408.5	386.3	392.8	404.6	399.4	399.4
5626.5	40°	2640.3	699.6	571.7	454.2	385.0	372.0	385.0	375.9	362.8	361.5
5807.9	42.5°	2453.7	732.2	566.4	442.4	370.7	361.5	356.3	341.9	340.6	343.3
5995.8	45°	2317.9	760.9	565.1	437.2	355.0	338.0	331.5	317.1	343.3	349.8
6072.8	47.5°	2157.4	760.9	565.1	418.9	328.9	322.4	311.9	296.3	322.4	328.9
5999.7	50°	1949.9	712.6	542.9	398.1	308.0	304.1	285.8	266.2	261.0	264.9
5828.8	52.5°	1687.5	625.2	486.8	369.4	287.1	279.3	257.1	242.8	238.8	238.8
5522.0	55°	1388.7	523.4	411.1	327.6	264.9	250.6	234.9	228.4	224.5	221.9
5092.7	57.5°	1128.9	429.4	330.2	291.0	244.1	225.8	220.6	212.7	206.2	202.3
4733.7	60°	926.6	338.0	272.8	258.4	223.2	206.2	204.9	194.5	177.5	174.9
4437.5	62.5°	715.2	248.0	229.7	224.5	202.3	187.9	185.3	164.4	138.3	133.1
4017.2	65°	505.1	193.2	185.3	197.1	180.1	167.1	160.5	129.2	101.8	97.9
3362.0	67.5°	355.0	161.8	146.2	172.3	156.6	139.6	135.7	109.6	84.8	82.2
2542.4	70°	253.2	131.8	120.1	147.5	125.3	122.7	114.9	91.4	69.2	66.6
1258.2	72.5°	178.8	100.5	92.7	127.9	86.1	105.7	94.0	70.5	52.2	49.6
428.1	75°	131.8	71.8	65.3	74.4	62.6	79.6	66.6	47.0	32.6	31.3
193.2	77.5°	96.6	45.7	39.2	36.5	36.5	49.6	36.5	19.6	14.4	13.1
97.9	80°	67.9	20.9	18.3	15.7	14.4	11.7	5.2	2.6	1.3	1.3
33.9	82.5°	40.5	9.1	9.1	6.5	3.9	0.0	0.0	0.0	0.0	0.0
13.1	85°	9.1	3.9	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
5.2	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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