

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: P952119

Luminaire Tested: **GALN-SB6A-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952119
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-SB6A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 20168 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

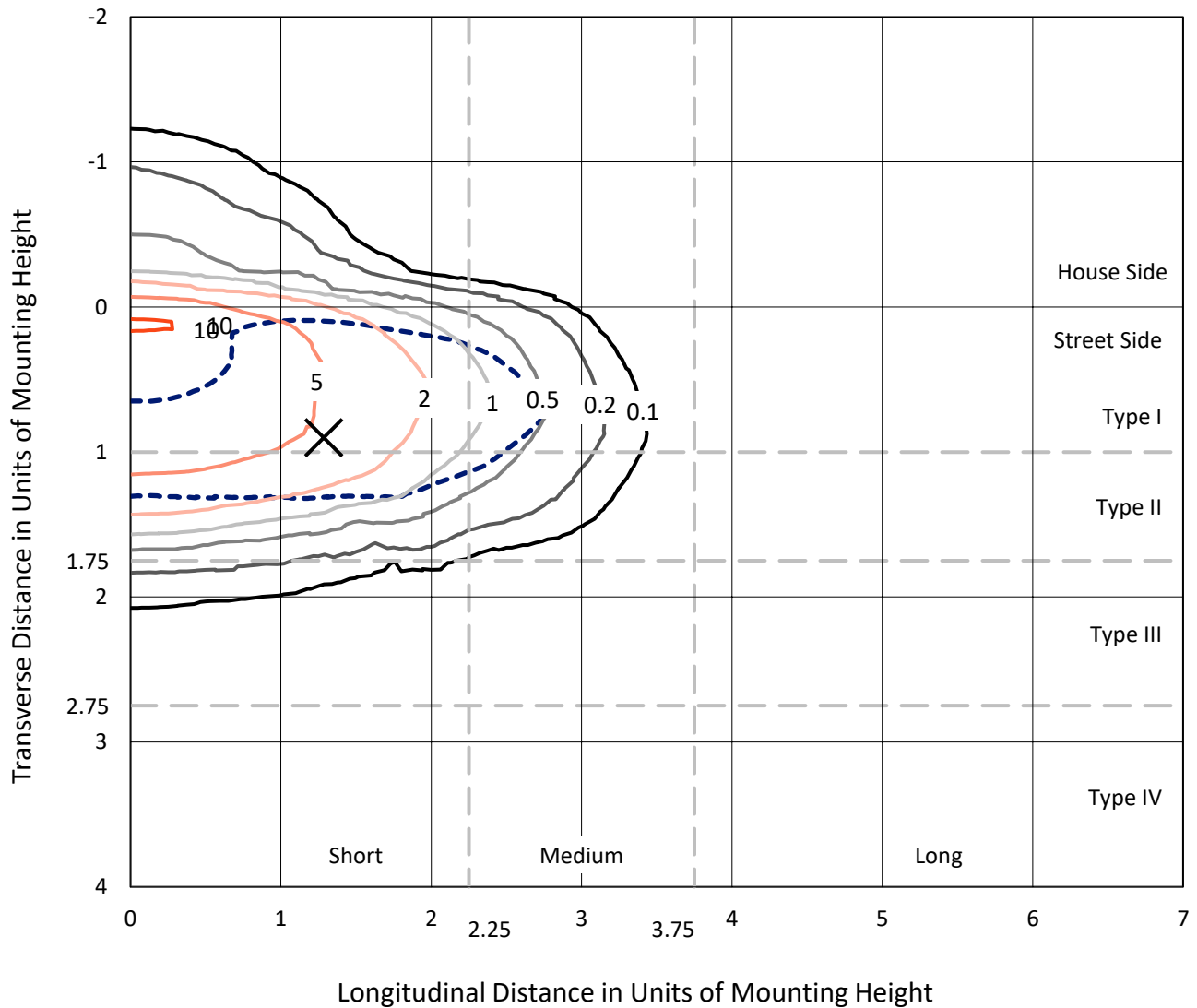
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

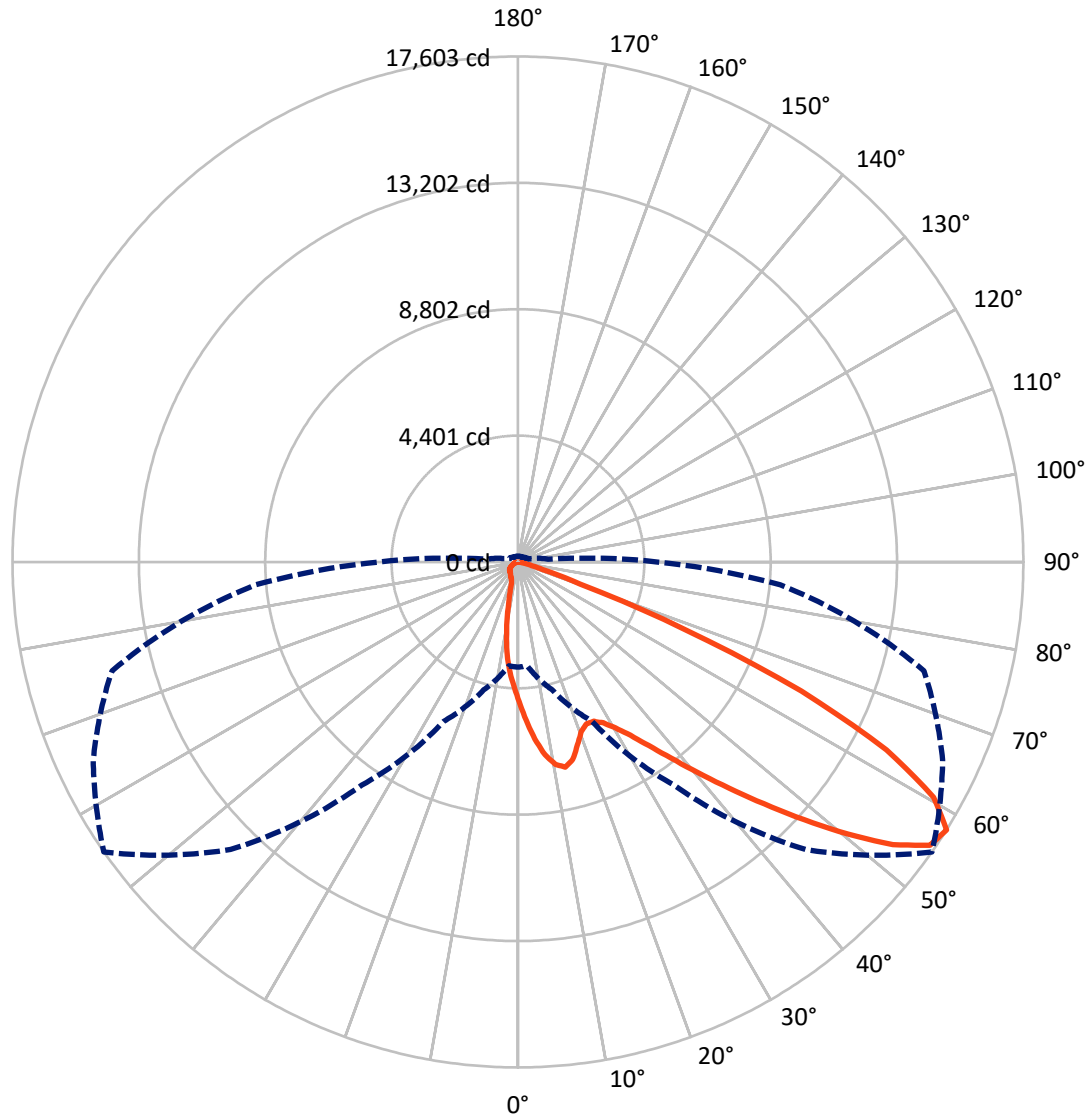
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	1575.0	0.0	1575.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	18593.0	0.0	18593.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	20168.0	0.0	20168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.2	2.2
10°-20°	1092.3	5.4
20°-30°	1747.6	8.7
30°-40°	2958.0	14.7
40°-50°	4856.4	24.1
50°-60°	5337.5	26.5
60°-70°	3061.6	15.2
70°-80°	625.6	3.1
80°-90°	36.9	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°	20168.0	100.0
0°-180°	20168.0	100.0

Coefficient of Utilization



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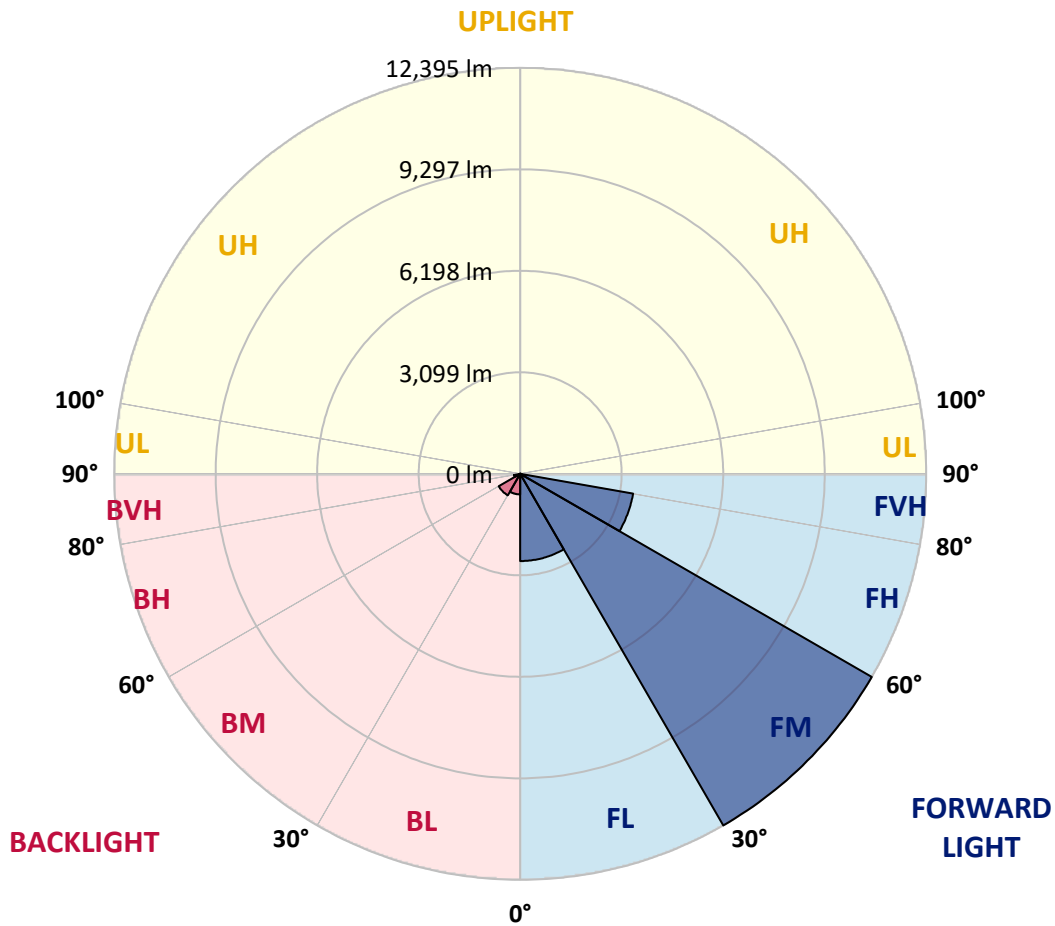
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2663.3	13.2			
FM (30°-60°)	12395.4	61.5			
FH (60°-80°)	3499.8	17.4			G2/5000
FVH (80°-90°)	34.4	0.2			G1/100
BL (0°-30°)	628.8	3.1	B2/1000		
BM (30°-60°)	756.4	3.8	B1/1000		
BH (60°-80°)	187.3	0.9	B1/500		G1/500
BVH (80°-90°)	2.5	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°	4860.0	4860.0	4860.0	4860.0	4860.0	4860.0	4860.0	4860.0	4860.0	4860.0
2.5°	6030.2	5954.4	5943.2	5928.2	5784.0	5675.8	5519.1	5347.5	5154.7	4958.2
5°	6966.7	6907.0	6895.8	6826.1	6662.0	6477.9	6199.3	5847.4	5488.0	5065.2
7.5°	7148.2	7137.0	7188.0	7185.5	7163.1	7017.6	6782.6	6363.5	5823.8	5197.0
10°	6338.6	6367.2	6519.0	6652.0	7011.4	7220.3	7169.4	6823.6	6169.5	5347.5
12.5°	5601.2	5567.6	5675.8	5826.3	6244.1	6865.9	7329.8	7207.9	6565.0	5517.9
15°	5138.6	5124.9	5185.8	5255.5	5573.8	6200.6	7143.2	7520.1	6945.5	5719.3
17.5°	4990.6	4979.4	4998.0	5015.4	5221.9	5706.9	6699.3	7711.6	7309.9	5949.4
20°	5111.2	5096.3	5093.8	5080.1	5165.9	5496.7	6297.6	7725.2	7637.0	6158.3
22.5°	5463.1	5445.7	5384.8	5330.1	5337.5	5525.3	6118.5	7588.5	7883.2	6353.6
25°	6101.1	6072.5	5945.7	5761.6	5644.7	5724.3	6145.9	7408.1	8118.2	6506.5
27.5°	6899.5	6862.2	6699.3	6425.7	6158.3	6061.3	6343.6	7283.8	8313.5	6623.4
30°	7681.7	7633.2	7472.8	7260.1	6869.6	6563.7	6700.5	7338.5	8546.0	6745.3
32.5°	8526.1	8480.1	8267.5	8003.8	7680.5	7268.8	7189.3	7605.9	8830.8	6915.7
35°	9594.4	9522.2	9220.1	8860.7	8517.4	8100.8	7850.9	8067.2	9210.1	7175.6
37.5°	10810.6	10713.6	10387.8	9891.6	9443.9	8977.6	8656.7	8701.5	9766.0	7523.8
40°	11957.2	11868.9	11568.0	11100.4	10538.3	9972.4	9630.4	9531.0	10533.3	7947.9
42.5°	12644.9	12565.3	12438.5	12240.8	11766.9	11189.9	10758.4	10543.2	11441.1	8455.2
45°	12683.5	12613.8	12784.2	13014.3	12921.0	12536.7	12010.7	11616.5	12352.7	8931.5
47.5°	12066.7	12019.4	12536.7	13340.1	13740.5	13902.2	13417.2	12600.2	13105.1	9273.5
50°	10385.3	10367.9	11432.4	12907.3	14052.7	15098.6	14900.8	13515.5	13688.3	9450.1
52.5°	9004.9	8941.5	9562.0	11522.0	13598.8	15727.8	16350.9	14413.3	14096.2	9483.7
55°	6829.9	6773.9	7552.4	9203.9	12135.1	15504.0	17411.7	15339.8	14388.5	9397.9
57.5°	3663.6	3628.8	4612.5	6126.0	9486.2	14160.9	17603.2	16319.8	14634.7	9170.3
60°	1426.4	1420.2	1788.3	2972.2	5765.3	11520.7	16636.9	16908.0	14788.9	8890.5
62.5°	863.1	881.7	941.4	1334.4	2546.9	7156.9	14409.6	16238.9	14892.1	8634.3
65°	713.8	715.1	722.5	916.5	1220.0	2994.6	10847.9	14037.8	14637.2	8177.9
67.5°	611.9	623.0	651.6	727.5	860.6	1313.2	6245.4	10874.0	13086.4	7115.9
70°	482.5	497.4	533.5	598.2	664.1	822.0	2308.1	7235.3	9997.3	5363.6
72.5°	406.7	405.4	424.1	486.2	527.3	578.3	887.9	4054.1	5810.1	2560.6
75°	314.6	327.1	350.7	406.7	431.5	419.1	481.3	1481.1	2081.8	776.0
77.5°	246.2	256.2	277.3	332.0	356.9	297.2	277.3	529.8	669.1	278.6
80°	110.7	119.4	189.0	245.0	291.0	205.2	150.5	271.1	297.2	126.8
82.5°	19.9	33.6	110.7	129.3	149.2	133.1	78.3	140.5	145.5	51.0
85°	1.2	2.5	38.6	47.3	59.7	43.5	23.6	56.0	48.5	17.4
87.5°	0.0	0.0	0.0	1.2	1.2	6.2	7.5	9.9	7.5	6.2
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°
4860.0	0°	4860.0	4860.0	4860.0	4860.0	4860.0	4860.0	4860.0	4860.0	4860.0	4860.0
4871.2	2.5°	4781.6	4605.1	4433.4	4292.9	4210.8	4071.5	3979.5	3964.6	3926.0	3959.6
4883.6	5°	4689.6	4373.7	4054.1	3768.1	3533.1	3229.6	3003.3	2907.5	2824.2	2852.8
4916.0	7.5°	4646.1	4147.4	3650.0	3161.2	2658.8	2173.8	1813.2	1662.7	1548.3	1564.4
4952.0	10°	4587.6	3912.4	3132.6	2386.5	1713.7	1234.9	986.2	894.1	843.2	844.4
5005.5	12.5°	4542.9	3631.3	2532.0	1617.9	1043.4	788.4	711.3	689.0	674.0	675.3
5086.3	15°	4520.5	3300.5	1938.8	1078.2	746.2	667.8	649.2	639.2	629.3	628.0
5175.9	17.5°	4483.2	2932.4	1418.9	787.2	652.9	625.5	609.4	598.2	585.7	583.2
5253.0	20°	4427.2	2514.6	1037.2	665.3	611.9	590.7	568.3	553.4	538.5	536.0
5301.5	22.5°	4324.0	2073.1	797.1	615.6	582.0	558.4	531.0	513.6	498.7	496.2
5277.8	25°	4132.5	1659.0	671.5	584.5	555.9	527.3	497.4	473.8	460.1	457.6
5226.9	27.5°	3890.0	1303.3	609.4	555.9	522.3	496.2	462.6	440.2	427.8	425.3
5159.7	30°	3604.0	1003.6	573.3	523.6	482.5	460.1	430.3	411.6	404.2	404.2
5112.4	32.5°	3295.5	802.1	558.4	491.2	447.7	422.8	399.2	391.7	389.2	388.0
5138.6	35°	3005.8	696.4	550.9	465.1	416.6	393.0	383.0	384.3	389.2	389.2
5219.4	37.5°	2748.4	662.8	547.2	446.5	389.2	368.1	374.3	385.5	380.5	380.5
5361.2	40°	2515.8	666.6	544.7	432.8	366.9	354.4	366.9	358.2	345.7	344.5
5534.0	42.5°	2338.0	697.7	539.7	421.6	353.2	344.5	339.5	325.8	324.6	327.1
5713.1	45°	2208.6	725.0	538.5	416.6	338.3	322.1	315.9	302.2	327.1	333.3
5786.5	47.5°	2055.7	725.0	538.5	399.2	313.4	307.2	297.2	282.3	307.2	313.4
5716.8	50°	1857.9	679.0	517.3	379.3	293.5	289.8	272.3	253.7	248.7	252.5
5553.9	52.5°	1608.0	595.7	463.9	351.9	273.6	266.1	245.0	231.3	227.6	227.6
5261.7	55°	1323.2	498.7	391.7	312.1	252.5	238.8	223.8	217.6	213.9	211.4
4852.5	57.5°	1075.7	409.1	314.6	277.3	232.6	215.1	210.2	202.7	196.5	192.8
4510.5	60°	883.0	322.1	259.9	246.2	212.7	196.5	195.2	185.3	169.1	166.6
4228.2	62.5°	681.5	236.3	218.9	213.9	192.8	179.1	176.6	156.7	131.8	126.8
3827.8	65°	481.3	184.1	176.6	187.8	171.6	159.2	153.0	123.1	97.0	93.3
3203.5	67.5°	338.3	154.2	139.3	164.2	149.2	133.1	129.3	104.5	80.8	78.3
2422.5	70°	241.3	125.6	114.4	140.5	119.4	116.9	109.4	87.1	65.9	63.4
1198.8	72.5°	170.4	95.8	88.3	121.9	82.1	100.7	89.5	67.2	49.7	47.3
407.9	75°	125.6	68.4	62.2	70.9	59.7	75.9	63.4	44.8	31.1	29.8
184.1	77.5°	92.0	43.5	37.3	34.8	34.8	47.3	34.8	18.7	13.7	12.4
93.3	80°	64.7	19.9	17.4	14.9	13.7	11.2	5.0	2.5	1.2	1.2
32.3	82.5°	38.6	8.7	8.7	6.2	3.7	0.0	0.0	0.0	0.0	0.0
12.4	85°	8.7	3.7	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
5.0	87.5°	1.2	1.2	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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