

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: P949011

Luminaire Tested: **GALN-SB3D-927-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949011
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-SB3D-927-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 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: 15846 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

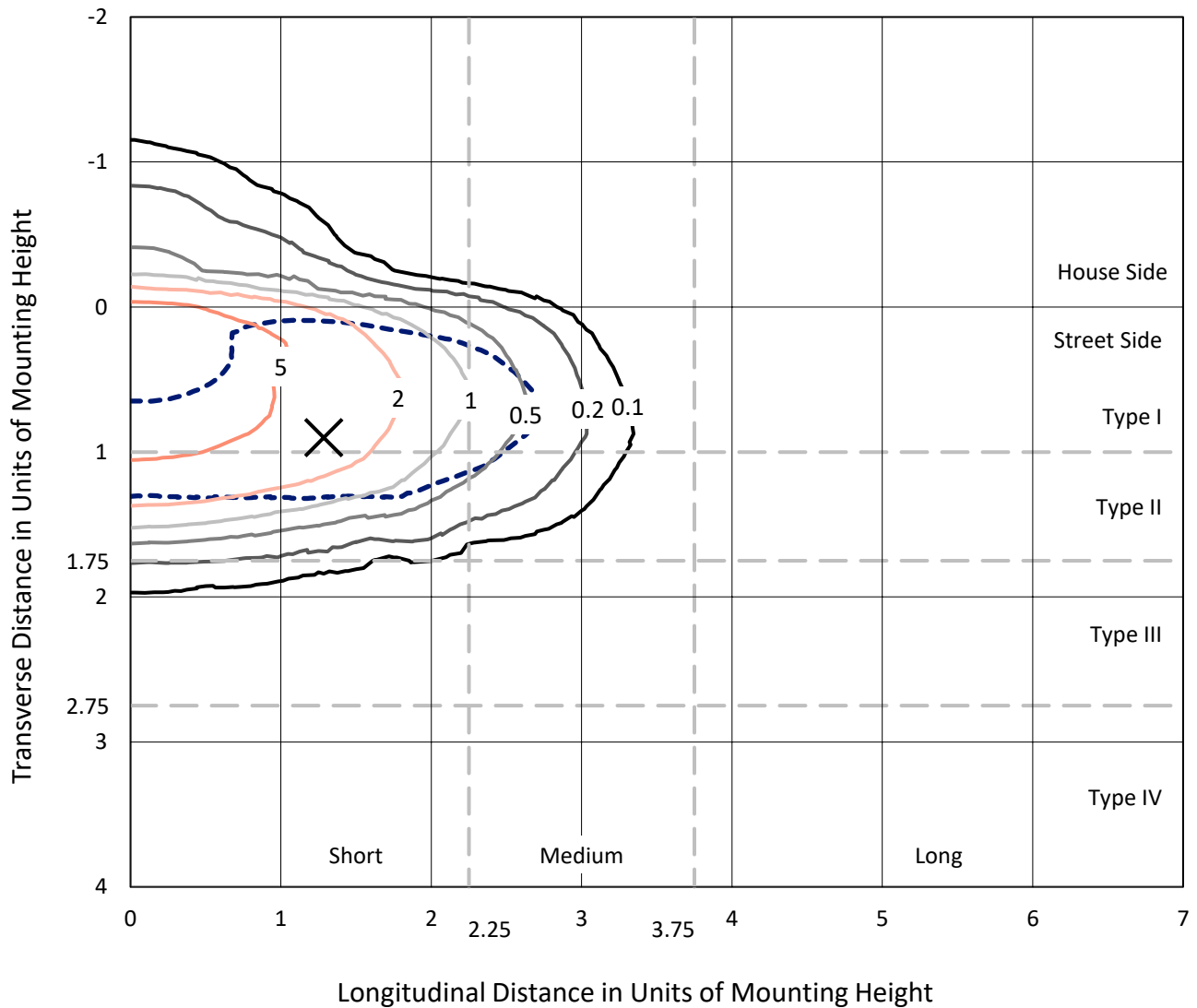
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

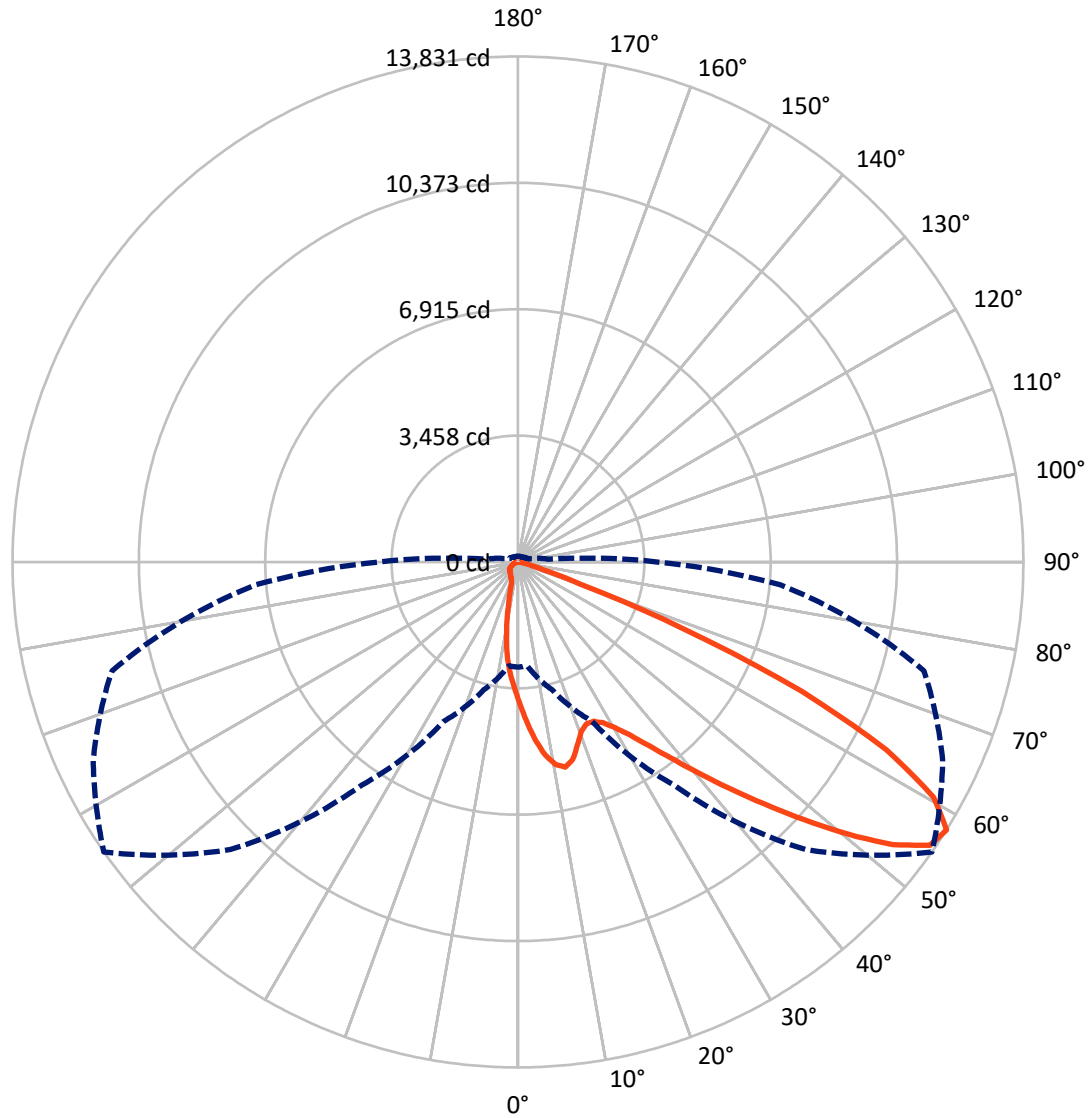
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	1237.5	0.0	1237.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	14608.5	0.0	14608.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	15846.0	0.0	15846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.3	2.2
10°-20°	858.2	5.4
20°-30°	1373.1	8.7
30°-40°	2324.1	14.7
40°-50°	3815.6	24.1
50°-60°	4193.7	26.5
60°-70°	2405.5	15.2
70°-80°	491.5	3.1
80°-90°	29.0	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°	15846.0	100.0
0°-180°	15846.0	100.0

Coefficient of Utilization



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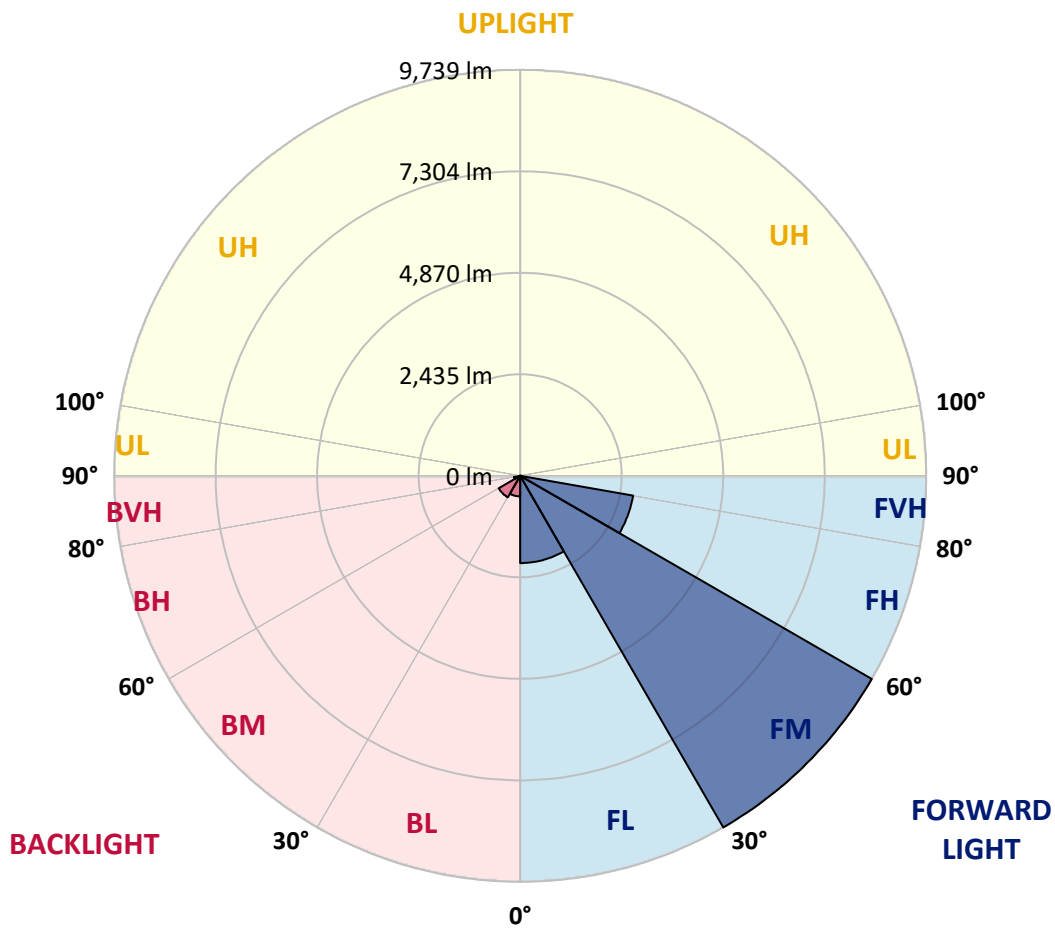
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2092.6	13.2			
FM (30°-60°)	9739.1	61.5			
FH (60°-80°)	2749.8	17.4			G2/5000
FVH (80°-90°)	27.0	0.2			G1/100
BL (0°-30°)	494.0	3.1	B1/500		
BM (30°-60°)	594.3	3.8	B1/1000		
BH (60°-80°)	147.2	0.9	B1/500		G1/500
BVH (80°-90°)	2.0	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°	3818.5	3818.5	3818.5	3818.5	3818.5	3818.5	3818.5	3818.5	3818.5	3818.5
2.5°	4737.9	4678.3	4669.5	4657.8	4544.5	4459.5	4336.4	4201.5	4050.1	3895.7
5°	5473.7	5426.8	5418.0	5363.3	5234.3	5089.7	4870.8	4594.3	4311.9	3979.7
7.5°	5616.4	5607.6	5647.6	5645.7	5628.1	5513.8	5329.1	4999.8	4575.7	4083.3
10°	4980.3	5002.7	5121.9	5226.5	5508.9	5673.0	5633.0	5361.3	4847.4	4201.5
12.5°	4400.8	4374.5	4459.5	4577.7	4906.0	5394.6	5759.0	5663.3	5158.1	4335.4
15°	4037.4	4026.6	4074.5	4129.2	4379.3	4871.8	5612.4	5908.5	5457.1	4493.7
17.5°	3921.1	3912.3	3927.0	3940.6	4102.8	4483.9	5263.6	6059.0	5743.4	4674.4
20°	4015.9	4004.1	4002.2	3991.4	4058.9	4318.8	4948.0	6069.7	6000.4	4838.6
22.5°	4292.4	4278.7	4230.8	4187.8	4193.7	4341.2	4807.3	5962.2	6193.8	4992.0
25°	4793.6	4771.2	4671.5	4526.9	4435.0	4497.6	4828.8	5820.6	6378.5	5112.2
27.5°	5420.9	5391.6	5263.6	5048.7	4838.6	4762.4	4984.2	5722.9	6531.9	5204.0
30°	6035.5	5997.4	5871.4	5704.3	5397.5	5157.1	5264.6	5765.8	6714.6	5299.8
32.5°	6699.0	6662.8	6495.7	6288.6	6034.6	5711.1	5648.6	5975.9	6938.4	5433.6
35°	7538.3	7481.6	7244.2	6961.8	6692.1	6364.8	6168.4	6338.4	7236.4	5637.9
37.5°	8493.9	8417.7	8161.7	7771.8	7420.1	7053.7	6801.6	6836.7	7673.1	5911.4
40°	9394.8	9325.4	9089.0	8721.6	8279.9	7835.3	7566.6	7488.5	8276.0	6244.6
42.5°	9935.1	9872.6	9772.9	9617.6	9245.3	8791.9	8452.9	8283.8	8989.3	6643.3
45°	9965.4	9910.7	10044.6	10225.3	10152.0	9850.1	9436.8	9127.1	9705.5	7017.5
47.5°	9480.8	9443.6	9850.1	10481.3	10795.9	10923.0	10541.9	9899.9	10296.6	7286.2
50°	8159.7	8146.1	8982.5	10141.3	11041.2	11862.9	11707.6	10619.1	10754.9	7425.0
52.5°	7075.2	7025.3	7512.9	9052.8	10684.6	12357.3	12846.9	11324.6	11075.4	7451.3
55°	5366.2	5322.2	5933.9	7231.5	9534.5	12181.5	13680.3	12052.5	11305.0	7383.9
57.5°	2878.5	2851.2	3624.1	4813.2	7453.3	11126.2	13830.8	12822.4	11498.5	7205.1
60°	1120.7	1115.8	1405.1	2335.3	4529.8	9051.8	13071.6	13284.6	11619.6	6985.3
62.5°	678.1	692.8	739.7	1048.4	2001.1	5623.2	11321.6	12758.9	11700.7	6784.0
65°	560.9	561.8	567.7	720.1	958.5	2352.8	8523.2	11029.5	11500.4	6425.4
67.5°	480.7	489.5	512.0	571.6	676.2	1031.8	4907.0	8543.7	10282.0	5590.9
70°	379.1	390.8	419.2	470.0	521.8	645.9	1813.5	5684.8	7854.9	4214.2
72.5°	319.5	318.5	333.2	382.0	414.3	454.4	697.6	3185.3	4565.0	2011.8
75°	247.2	257.0	275.5	319.5	339.1	329.3	378.1	1163.7	1635.7	609.7
77.5°	193.5	201.3	217.9	260.9	280.4	233.5	217.9	416.2	525.7	218.9
80°	87.0	93.8	148.5	192.5	228.6	161.2	118.2	213.0	233.5	99.7
82.5°	15.6	26.4	87.0	101.6	117.3	104.5	61.6	110.4	114.3	40.1
85°	1.0	2.0	30.3	37.1	46.9	34.2	18.6	44.0	38.1	13.7
87.5°	0.0	0.0	0.0	1.0	1.0	4.9	5.9	7.8	5.9	4.9
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°
3818.5	0°	3818.5	3818.5	3818.5	3818.5	3818.5	3818.5	3818.5	3818.5	3818.5	3818.5
3827.3	2.5°	3756.9	3618.2	3483.4	3372.9	3308.5	3199.0	3126.7	3115.0	3084.7	3111.1
3837.1	5°	3684.6	3436.5	3185.3	2960.6	2775.9	2537.5	2359.7	2284.5	2219.0	2241.5
3862.5	7.5°	3650.4	3258.6	2867.8	2483.8	2089.0	1708.0	1424.6	1306.4	1216.5	1229.2
3890.8	10°	3604.5	3073.9	2461.3	1875.0	1346.4	970.3	774.8	702.5	662.5	663.4
3932.8	12.5°	3569.3	2853.1	1989.4	1271.2	819.8	619.5	558.9	541.3	529.6	530.6
3996.3	15°	3551.7	2593.2	1523.3	847.1	586.3	524.7	510.0	502.2	494.4	493.4
4066.7	17.5°	3522.4	2304.0	1114.9	618.5	513.0	491.5	478.8	470.0	460.2	458.3
4127.3	20°	3478.5	1975.7	814.9	522.7	480.7	464.1	446.5	434.8	423.1	421.1
4165.4	22.5°	3397.4	1628.8	626.3	483.7	457.3	438.7	417.2	403.5	391.8	389.9
4146.8	25°	3246.9	1303.4	527.6	459.2	436.8	414.3	390.8	372.3	361.5	359.6
4106.7	27.5°	3056.4	1024.0	478.8	436.8	410.4	389.9	363.5	345.9	336.1	334.2
4054.0	30°	2831.6	788.5	450.4	411.4	379.1	361.5	338.1	323.4	317.6	317.6
4016.8	32.5°	2589.3	630.2	438.7	386.0	351.8	332.2	313.6	307.8	305.8	304.9
4037.4	35°	2361.6	547.2	432.9	365.4	327.3	308.8	300.9	301.9	305.8	305.8
4100.9	37.5°	2159.4	520.8	429.9	350.8	305.8	289.2	294.1	302.9	299.0	299.0
4212.3	40°	1976.7	523.7	428.0	340.0	288.2	278.5	288.2	281.4	271.6	270.7
4348.1	42.5°	1836.9	548.2	424.1	331.2	277.5	270.7	266.7	256.0	255.0	257.0
4488.8	45°	1735.3	569.6	423.1	327.3	265.8	253.1	248.2	237.4	257.0	261.9
4546.4	47.5°	1615.1	569.6	423.1	313.6	246.2	241.3	233.5	221.8	241.3	246.2
4491.7	50°	1459.8	533.5	406.5	298.0	230.6	227.7	214.0	199.3	195.4	198.4
4363.7	52.5°	1263.4	468.0	364.5	276.5	215.0	209.1	192.5	181.7	178.8	178.8
4134.1	55°	1039.6	391.8	307.8	245.3	198.4	187.6	175.9	171.0	168.1	166.1
3812.6	57.5°	845.2	321.5	247.2	217.9	182.7	169.0	165.1	159.3	154.4	151.5
3543.9	60°	693.7	253.1	204.2	193.5	167.1	154.4	153.4	145.6	132.9	130.9
3322.1	62.5°	535.4	185.6	172.0	168.1	151.5	140.7	138.7	123.1	103.6	99.7
3007.5	65°	378.1	144.6	138.7	147.5	134.8	125.1	120.2	96.7	76.2	73.3
2517.0	67.5°	265.8	121.2	109.4	129.0	117.3	104.5	101.6	82.1	63.5	61.6
1903.4	70°	189.6	98.7	89.9	110.4	93.8	91.8	86.0	68.4	51.8	49.8
941.9	72.5°	133.9	75.2	69.4	95.8	64.5	79.1	70.4	52.8	39.1	37.1
320.5	75°	98.7	53.7	48.9	55.7	46.9	59.6	49.8	35.2	24.4	23.5
144.6	77.5°	72.3	34.2	29.3	27.4	27.4	37.1	27.4	14.7	10.7	9.8
73.3	80°	50.8	15.6	13.7	11.7	10.7	8.8	3.9	2.0	1.0	1.0
25.4	82.5°	30.3	6.8	6.8	4.9	2.9	0.0	0.0	0.0	0.0	0.0
9.8	85°	6.8	2.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
3.9	87.5°	1.0	1.0	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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