

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: P950082

Luminaire Tested: **GALN-SB4C-927-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950082
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-SB4C-927-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 615mA 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: 15577 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

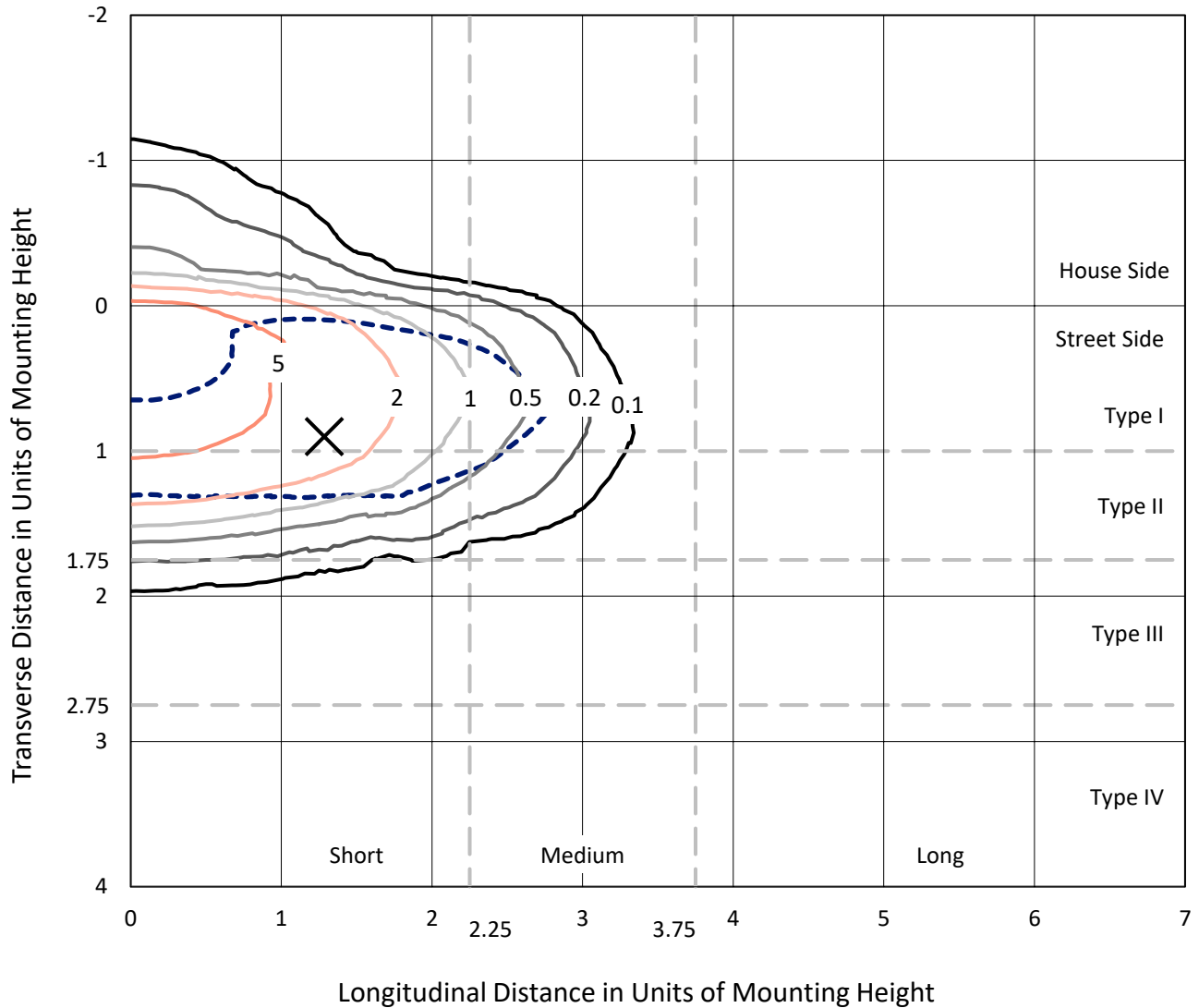
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

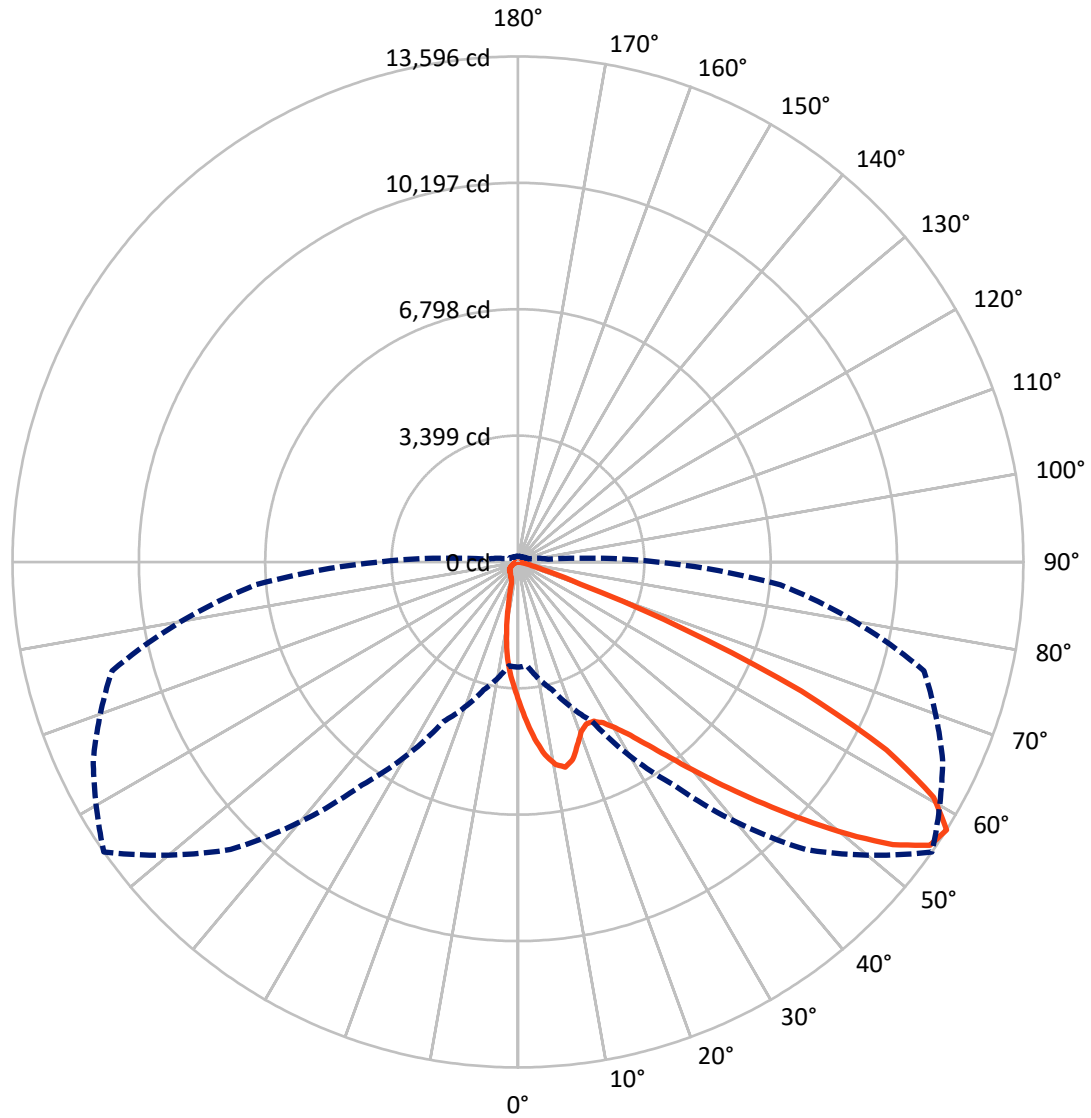
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	1216.5	0.0	1216.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	14360.5	0.0	14360.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	15577.0	0.0	15577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.3	2.2
10°-20°	843.6	5.4
20°-30°	1349.8	8.7
30°-40°	2284.6	14.7
40°-50°	3750.9	24.1
50°-60°	4122.5	26.5
60°-70°	2364.6	15.2
70°-80°	483.2	3.1
80°-90°	28.5	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°	15577.0	100.0
0°-180°	15577.0	100.0

Coefficient of Utilization



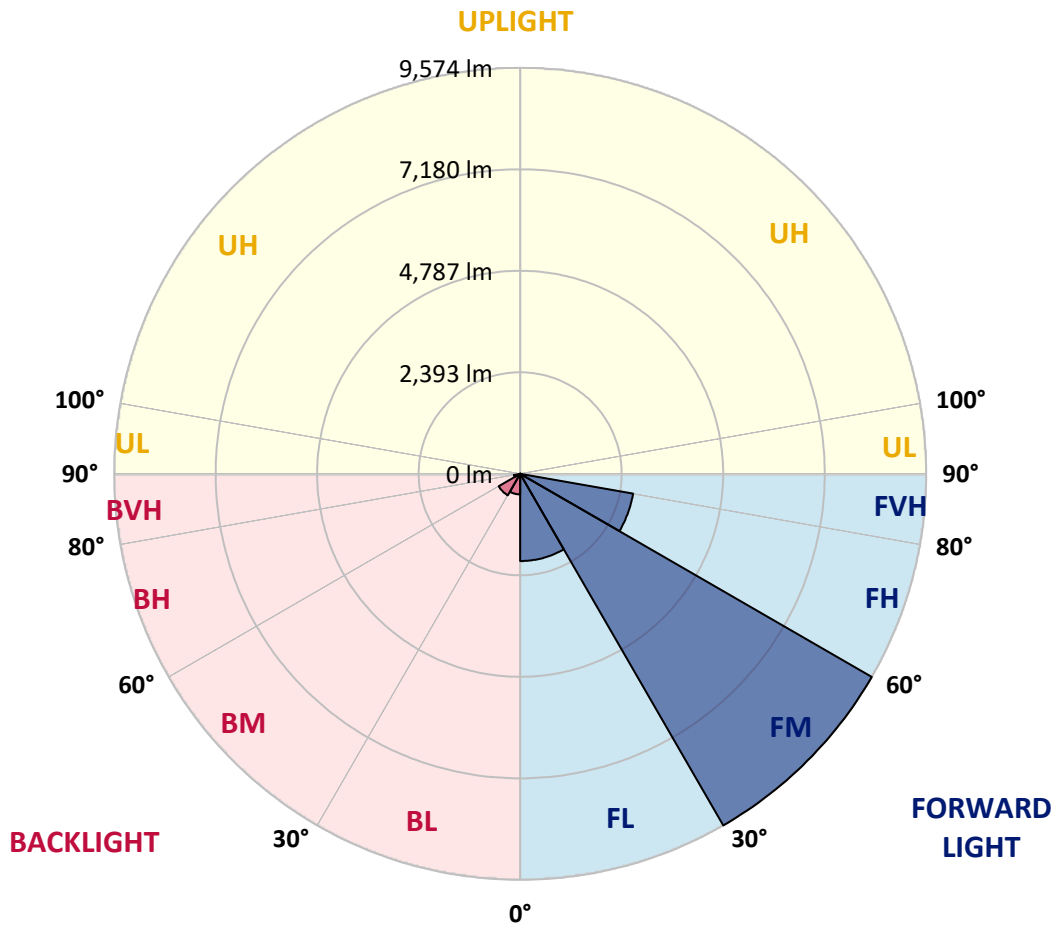
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2057.0	13.2			
FM (30°-60°)	9573.7	61.5			
FH (60°-80°)	2703.1	17.4			G2/5000
FVH (80°-90°)	26.6	0.2			G1/100
BL (0°-30°)	485.7	3.1	B1/500		
BM (30°-60°)	584.2	3.8	B1/1000		
BH (60°-80°)	144.7	0.9	B1/500		G1/500
BVH (80°-90°)	1.9	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°	3753.7	3753.7	3753.7	3753.7	3753.7	3753.7	3753.7	3753.7	3753.7	3753.7
2.5°	4657.5	4598.9	4590.3	4578.8	4467.3	4383.8	4262.7	4130.2	3981.3	3829.6
5°	5380.8	5334.7	5326.0	5272.2	5145.5	5003.3	4788.1	4516.3	4238.7	3912.2
7.5°	5521.0	5512.4	5551.7	5549.8	5532.5	5420.2	5238.6	4914.9	4498.1	4014.0
10°	4895.7	4917.8	5035.0	5137.8	5415.4	5576.7	5537.3	5270.3	4765.1	4130.2
12.5°	4326.1	4300.2	4383.8	4500.0	4822.7	5303.0	5661.2	5567.1	5070.5	4261.8
15°	3968.8	3958.3	4005.3	4059.1	4305.0	4789.1	5517.2	5808.2	5364.4	4417.4
17.5°	3854.5	3845.9	3860.3	3873.7	4033.2	4407.8	5174.3	5956.1	5645.9	4595.1
20°	3947.7	3936.2	3934.2	3923.7	3990.0	4245.5	4864.0	5966.7	5898.5	4756.4
22.5°	4219.5	4206.1	4159.0	4116.7	4122.5	4267.5	4725.7	5861.0	6088.7	4907.2
25°	4712.3	4690.2	4592.2	4450.0	4359.8	4421.2	4746.8	5721.8	6270.2	5025.4
27.5°	5328.9	5300.1	5174.3	4963.0	4756.4	4681.5	4899.6	5625.7	6421.0	5115.7
30°	5933.1	5895.6	5771.7	5607.5	5305.9	5069.6	5175.2	5668.0	6600.6	5209.8
32.5°	6585.3	6549.7	6385.5	6181.8	5932.1	5614.2	5552.7	5874.5	6820.6	5341.4
35°	7410.3	7354.6	7121.2	6843.6	6578.5	6256.8	6063.7	6230.8	7113.5	5542.1
37.5°	8349.7	8274.8	8023.1	7639.9	7294.1	6933.9	6686.1	6720.7	7542.9	5811.1
40°	9235.3	9167.1	8934.7	8573.5	8139.4	7702.3	7438.2	7361.3	8135.5	6138.6
42.5°	9766.5	9705.0	9607.0	9454.3	9088.3	8642.7	8309.4	8143.2	8836.7	6530.5
45°	9796.2	9742.5	9874.0	10051.7	9979.7	9682.9	9276.6	8972.1	9540.7	6898.4
47.5°	9319.8	9283.3	9682.9	10303.4	10612.7	10737.5	10362.9	9731.9	10121.9	7162.5
50°	8021.2	8007.8	8830.0	9969.1	10853.8	11661.6	11508.8	10438.8	10572.3	7298.9
52.5°	6955.1	6906.1	7385.4	8899.1	10503.2	12147.6	12628.8	11132.3	10887.4	7324.8
55°	5275.1	5231.9	5833.2	7108.7	9372.7	11974.7	13448.1	11847.9	11113.1	7258.6
57.5°	2829.7	2802.8	3562.5	4731.5	7326.8	10937.3	13596.0	12604.8	11303.3	7082.8
60°	1101.7	1096.9	1381.2	2295.6	4452.9	8898.2	12849.7	13059.1	11422.4	6866.7
62.5°	666.6	681.0	727.1	1030.6	1967.1	5527.7	11129.4	12542.3	11502.1	6668.8
65°	551.3	552.3	558.1	707.9	942.3	2312.9	8378.5	10842.2	11305.2	6316.3
67.5°	472.6	481.2	503.3	561.9	664.7	1014.3	4823.7	8398.7	10107.4	5496.0
70°	372.7	384.2	412.1	462.0	512.9	634.9	1782.7	5588.2	7721.5	4142.7
72.5°	314.1	313.1	327.5	375.6	407.3	446.6	685.8	3131.3	4487.5	1977.7
75°	243.0	252.6	270.9	314.1	333.3	323.7	371.7	1144.0	1607.9	599.4
77.5°	190.2	197.9	214.2	256.5	275.7	229.6	214.2	409.2	516.8	215.2
80°	85.5	92.2	146.0	189.2	224.8	158.5	116.2	209.4	229.6	98.0
82.5°	15.4	25.9	85.5	99.9	115.3	102.8	60.5	108.5	112.4	39.4
85°	1.0	1.9	29.8	36.5	46.1	33.6	18.2	43.2	37.5	13.4
87.5°	0.0	0.0	0.0	1.0	1.0	4.8	5.8	7.7	5.8	4.8
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°
3753.7	0°	3753.7	3753.7	3753.7	3753.7	3753.7	3753.7	3753.7	3753.7	3753.7	3753.7
3762.3	2.5°	3693.2	3556.8	3424.2	3315.7	3252.3	3144.7	3073.6	3062.1	3032.3	3058.3
3771.9	5°	3622.1	3378.1	3131.3	2910.3	2728.8	2494.4	2319.6	2245.7	2181.3	2203.4
3796.9	7.5°	3588.5	3203.3	2819.1	2441.6	2053.6	1679.0	1400.4	1284.2	1195.8	1208.3
3824.8	10°	3543.3	3021.8	2419.5	1843.2	1323.6	953.8	761.7	690.6	651.2	652.2
3866.1	12.5°	3508.7	2804.7	1955.6	1249.6	805.9	609.0	549.4	532.1	520.6	521.6
3928.5	15°	3491.5	2549.2	1497.4	832.8	576.3	515.8	501.4	493.7	486.0	485.1
3997.6	17.5°	3462.6	2264.9	1095.9	608.0	504.3	483.1	470.6	462.0	452.4	450.5
4057.2	20°	3419.4	1942.2	801.1	513.9	472.6	456.2	439.0	427.4	415.9	414.0
4094.7	22.5°	3339.7	1601.2	615.7	475.5	449.5	431.3	410.1	396.7	385.2	383.2
4076.4	25°	3191.8	1281.3	518.7	451.4	429.3	407.3	384.2	366.0	355.4	353.5
4037.0	27.5°	3004.5	1006.6	470.6	429.3	403.4	383.2	357.3	340.0	330.4	328.5
3985.2	30°	2783.6	775.1	442.8	404.4	372.7	355.4	332.3	317.9	312.2	312.2
3948.7	32.5°	2545.4	619.5	431.3	379.4	345.8	326.6	308.3	302.6	300.6	299.7
3968.8	35°	2321.6	537.9	425.5	359.2	321.8	303.5	295.8	296.8	300.6	300.6
4031.3	37.5°	2122.7	512.0	422.6	344.8	300.6	284.3	289.1	297.8	293.9	293.9
4140.8	40°	1943.1	514.8	420.7	334.3	283.4	273.7	283.4	276.6	267.0	266.1
4274.3	42.5°	1805.8	538.8	416.9	325.6	272.8	266.1	262.2	251.7	250.7	252.6
4412.6	45°	1705.9	560.0	415.9	321.8	261.3	248.8	244.0	233.4	252.6	257.4
4469.3	47.5°	1587.7	560.0	415.9	308.3	242.0	237.2	229.6	218.0	237.2	242.0
4415.5	50°	1435.0	524.4	399.6	293.0	226.7	223.8	210.4	195.9	192.1	195.0
4289.6	52.5°	1241.9	460.1	358.3	271.8	211.3	205.5	189.2	178.7	175.8	175.8
4063.9	55°	1022.0	385.2	302.6	241.1	195.0	184.4	172.9	168.1	165.2	163.3
3747.9	57.5°	830.8	316.0	243.0	214.2	179.6	166.2	162.3	156.6	151.8	148.9
3483.8	60°	682.0	248.8	200.7	190.2	164.2	151.8	150.8	143.1	130.6	128.7
3265.7	62.5°	526.4	182.5	169.0	165.2	148.9	138.3	136.4	121.0	101.8	98.0
2956.4	65°	371.7	142.2	136.4	145.0	132.6	122.9	118.1	95.1	74.9	72.0
2474.3	67.5°	261.3	119.1	107.6	126.8	115.3	102.8	99.9	80.7	62.4	60.5
1871.1	70°	186.3	97.0	88.4	108.5	92.2	90.3	84.5	67.2	50.9	49.0
925.9	72.5°	131.6	74.0	68.2	94.1	63.4	77.8	69.2	51.9	38.4	36.5
315.0	75°	97.0	52.8	48.0	54.7	46.1	58.6	49.0	34.6	24.0	23.1
142.2	77.5°	71.1	33.6	28.8	26.9	26.9	36.5	26.9	14.4	10.6	9.6
72.0	80°	49.9	15.4	13.4	11.5	10.6	8.6	3.8	1.9	1.0	1.0
25.0	82.5°	29.8	6.7	6.7	4.8	2.9	0.0	0.0	0.0	0.0	0.0
9.6	85°	6.7	2.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
3.8	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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