

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: P947058

Luminaire Tested: **GALN-SB2C-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947058
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-SB2C-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 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: 13510 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

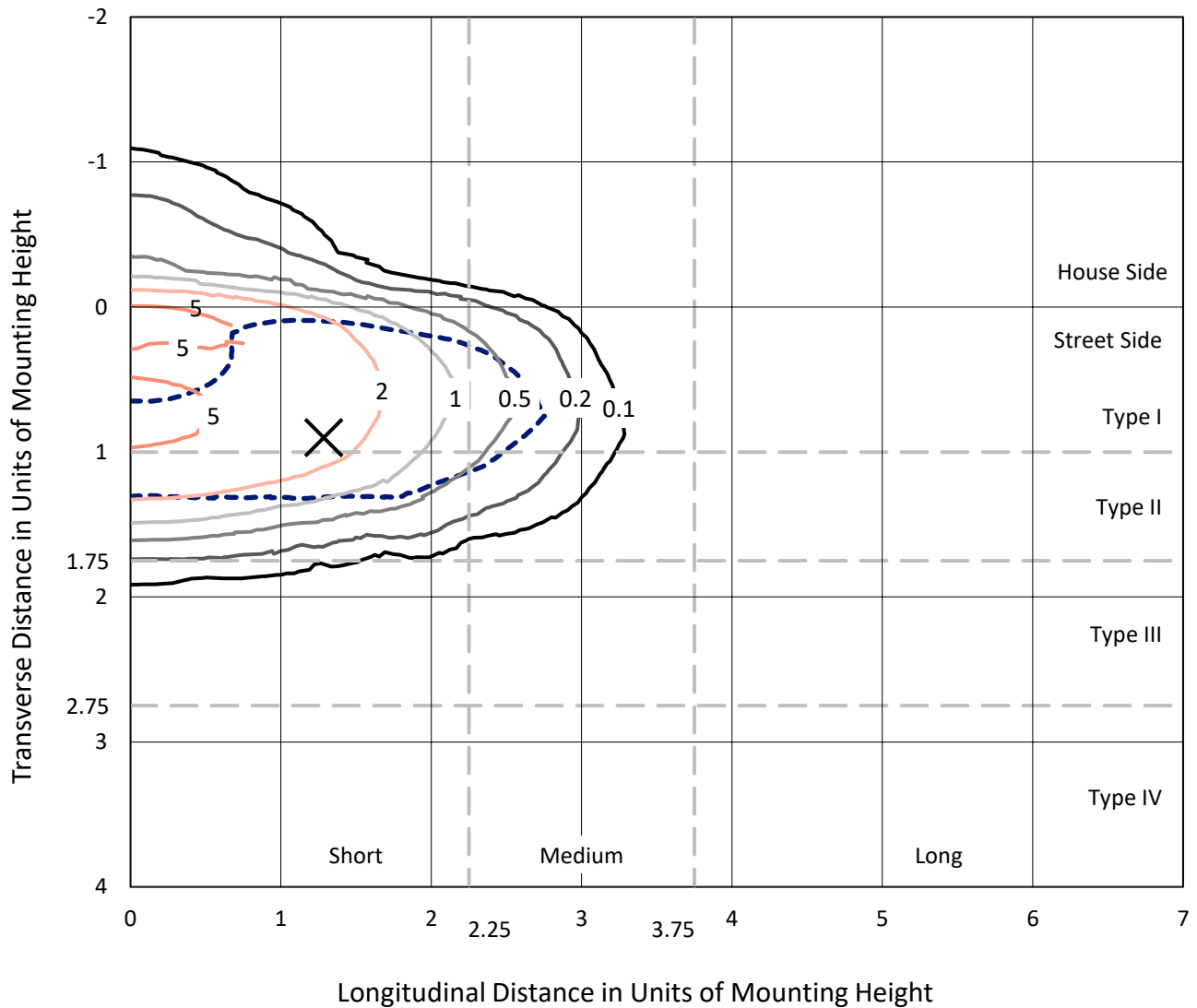
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

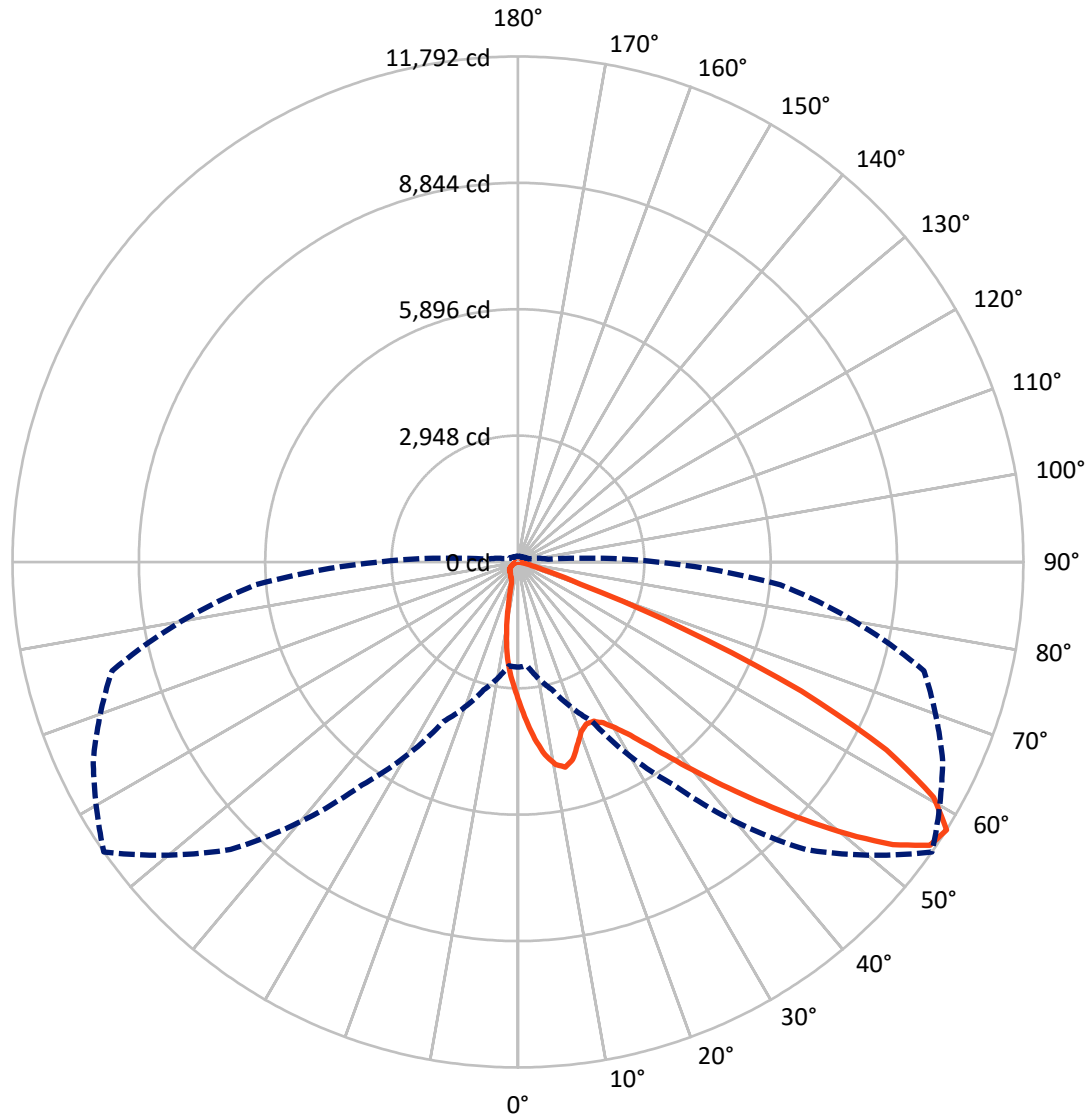
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	1055.1	0.0	1055.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	12454.9	0.0	12454.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	13510.0	0.0	13510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.9	2.2
10°-20°	731.7	5.4
20°-30°	1170.7	8.7
30°-40°	1981.5	14.7
40°-50°	3253.1	24.1
50°-60°	3575.4	26.5
60°-70°	2050.9	15.2
70°-80°	419.1	3.1
80°-90°	24.7	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°	13510.0	100.0
0°-180°	13510.0	100.0

Coefficient of Utilization



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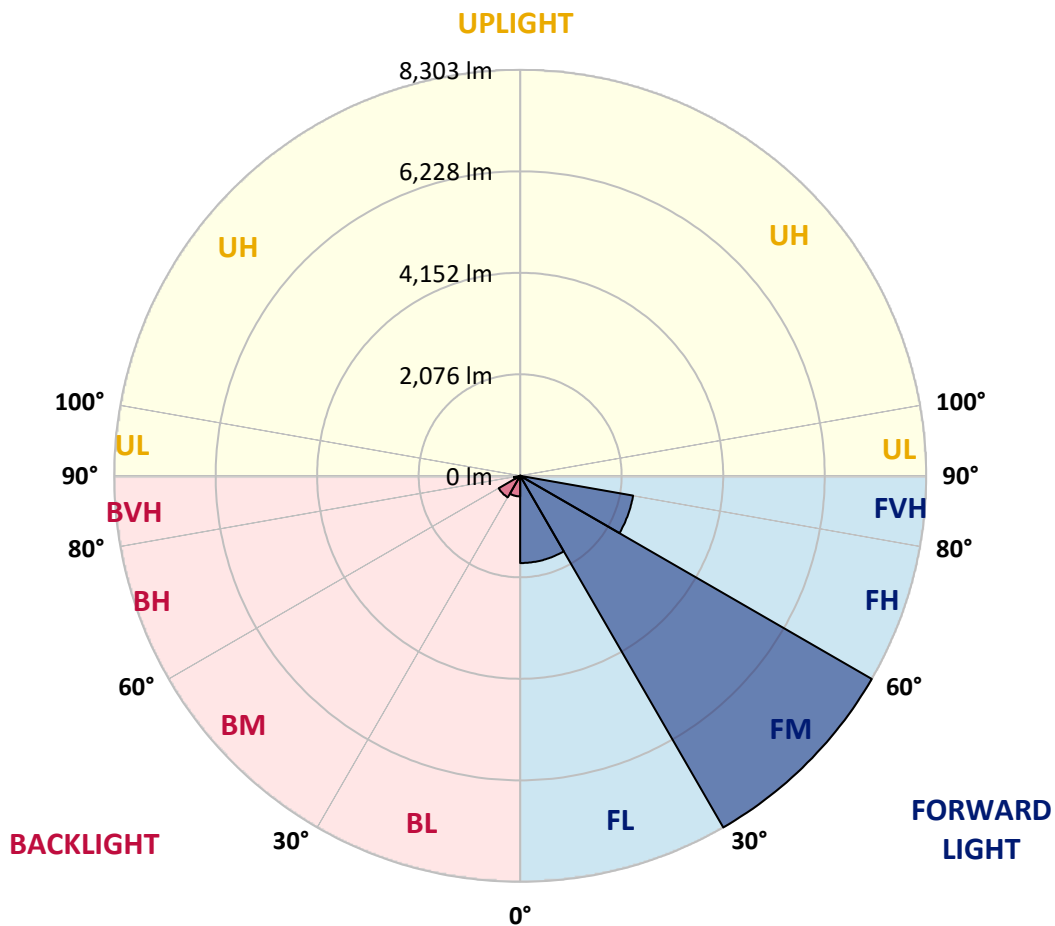
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1784.1	13.2			
FM (30°-60°)	8303.3	61.5			
FH (60°-80°)	2344.4	17.4			G2/5000
FVH (80°-90°)	23.1	0.2			G1/100
BL (0°-30°)	421.2	3.1	B1/500		
BM (30°-60°)	506.7	3.8	B1/1000		
BH (60°-80°)	125.5	0.9	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3255.6	3255.6	3255.6	3255.6	3255.6	3255.6	3255.6	3255.6	3255.6	3255.6
2.5°	4039.5	3988.7	3981.2	3971.2	3874.5	3802.1	3697.1	3582.1	3453.0	3321.4
5°	4666.8	4626.8	4619.3	4572.6	4462.7	4339.4	4152.8	3917.0	3676.3	3393.0
7.5°	4788.4	4780.9	4815.1	4813.4	4798.4	4700.9	4543.5	4262.7	3901.2	3481.3
10°	4246.1	4265.2	4366.9	4456.0	4696.8	4836.7	4802.6	4571.0	4132.8	3582.1
12.5°	3752.1	3729.6	3802.1	3902.9	4182.8	4599.3	4910.0	4828.4	4397.7	3696.3
15°	3442.2	3433.0	3473.8	3520.5	3733.8	4153.6	4785.1	5037.5	4652.6	3831.2
17.5°	3343.0	3335.6	3348.0	3359.7	3498.0	3822.9	4487.7	5165.8	4896.7	3985.3
20°	3423.9	3413.9	3412.2	3403.0	3460.5	3682.1	4218.6	5174.9	5115.8	4125.3
22.5°	3659.6	3647.9	3607.1	3570.5	3575.5	3701.3	4098.6	5083.3	5280.7	4256.1
25°	4087.0	4067.8	3982.8	3859.5	3781.2	3834.5	4117.0	4962.5	5438.2	4358.5
27.5°	4621.8	4596.8	4487.7	4304.4	4125.3	4060.3	4249.4	4879.2	5569.0	4436.8
30°	5145.8	5113.3	5005.8	4863.4	4601.8	4396.9	4488.5	4915.9	5724.8	4518.5
32.5°	5711.4	5680.6	5538.1	5361.5	5144.9	4869.2	4815.9	5095.0	5915.5	4632.6
35°	6427.0	6378.7	6176.3	5935.5	5705.6	5426.5	5259.1	5404.0	6169.6	4806.7
37.5°	7241.7	7176.8	6958.5	6626.1	6326.2	6013.8	5798.9	5828.9	6542.0	5040.0
40°	8009.8	7950.7	7749.1	7435.8	7059.3	6680.3	6451.2	6384.5	7056.0	5324.1
42.5°	8470.5	8417.2	8332.2	8199.8	7882.4	7495.8	7206.8	7062.6	7664.1	5663.9
45°	8496.3	8449.7	8563.8	8717.9	8655.4	8398.0	8045.6	7781.6	8274.7	5983.0
47.5°	8083.1	8051.5	8398.0	8936.2	9204.4	9312.7	8987.8	8440.5	8778.7	6212.1
50°	6956.8	6945.2	7658.3	8646.3	9413.5	10114.1	9981.7	9053.6	9169.4	6330.4
52.5°	6032.1	5989.7	6405.4	7718.3	9109.5	10535.6	10953.0	9655.1	9442.7	6352.9
55°	4575.1	4537.6	5059.1	6165.4	8128.9	10385.7	11663.6	10275.7	9638.4	6295.4
57.5°	2454.2	2430.9	3089.8	4103.6	6354.5	9486.0	11791.9	10932.2	9803.4	6142.9
60°	955.5	951.3	1197.9	1991.0	3862.0	7717.4	11144.6	11326.2	9906.7	5955.5
62.5°	578.1	590.6	630.6	893.9	1706.1	4794.2	9652.6	10878.0	9975.8	5783.9
65°	478.2	479.0	484.0	614.0	817.2	2006.0	7266.7	9403.5	9805.1	5478.2
67.5°	409.9	417.4	436.5	487.3	576.5	879.7	4183.6	7284.2	8766.2	4766.7
70°	323.2	333.2	357.4	400.7	444.9	550.6	1546.1	4846.7	6696.9	3593.0
72.5°	272.4	271.6	284.1	325.7	353.2	387.4	594.8	2715.8	3892.0	1715.3
75°	210.8	219.1	234.9	272.4	289.1	280.7	322.4	992.2	1394.5	519.8
77.5°	164.9	171.6	185.8	222.4	239.1	199.1	185.8	354.9	448.2	186.6
80°	74.1	80.0	126.6	164.1	194.9	137.5	100.8	181.6	199.1	85.0
82.5°	13.3	22.5	74.1	86.6	100.0	89.1	52.5	94.1	97.5	34.2
85°	0.8	1.7	25.8	31.7	40.0	29.2	15.8	37.5	32.5	11.7
87.5°	0.0	0.0	0.0	0.8	0.8	4.2	5.0	6.7	5.0	4.2
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°
3255.6	0°	3255.6	3255.6	3255.6	3255.6	3255.6	3255.6	3255.6	3255.6	3255.6	3255.6
3263.1	2.5°	3203.1	3084.8	2969.8	2875.7	2820.7	2727.4	2665.8	2655.8	2630.0	2652.4
3271.4	5°	3141.4	2929.9	2715.8	2524.2	2366.7	2163.4	2011.8	1947.7	1891.9	1911.0
3293.1	7.5°	3112.3	2778.2	2445.0	2117.6	1781.1	1456.2	1214.6	1113.8	1037.2	1048.0
3317.2	10°	3073.1	2620.8	2098.5	1598.6	1147.9	827.2	660.6	599.0	564.8	565.6
3353.0	12.5°	3043.1	2432.5	1696.1	1083.8	698.9	528.2	476.5	461.5	451.5	452.3
3407.2	15°	3028.2	2210.9	1298.7	722.3	499.8	447.4	434.9	428.2	421.5	420.7
3467.2	17.5°	3003.2	1964.3	950.5	527.3	437.4	419.0	408.2	400.7	392.4	390.7
3518.8	20°	2965.7	1684.4	694.8	445.7	409.9	395.7	380.7	370.7	360.7	359.0
3551.3	22.5°	2896.5	1388.7	534.0	412.4	389.9	374.0	355.7	344.1	334.1	332.4
3535.5	25°	2768.2	1111.3	449.8	391.5	372.4	353.2	333.2	317.4	308.2	306.6
3501.3	27.5°	2605.8	873.0	408.2	372.4	349.9	332.4	309.9	294.9	286.6	284.9
3456.3	30°	2414.2	672.3	384.0	350.7	323.2	308.2	288.2	275.7	270.7	270.7
3424.7	32.5°	2207.6	537.3	374.0	329.1	299.9	283.2	267.4	262.4	260.7	259.9
3442.2	35°	2013.5	466.5	369.0	311.6	279.1	263.2	256.6	257.4	260.7	260.7
3496.3	37.5°	1841.1	444.0	366.5	299.1	260.7	246.6	250.7	258.2	254.9	254.9
3591.3	40°	1685.3	446.5	364.9	289.9	245.8	237.4	245.8	239.9	231.6	230.8
3707.1	42.5°	1566.1	467.3	361.5	282.4	236.6	230.8	227.4	218.3	217.4	219.1
3827.1	45°	1479.5	485.7	360.7	279.1	226.6	215.8	211.6	202.4	219.1	223.3
3876.2	47.5°	1377.0	485.7	360.7	267.4	209.9	205.8	199.1	189.1	205.8	209.9
3829.6	50°	1244.6	454.8	346.6	254.1	196.6	194.1	182.4	169.9	166.6	169.1
3720.4	52.5°	1077.1	399.0	310.7	235.8	183.3	178.3	164.1	154.9	152.4	152.4
3524.7	55°	886.4	334.1	262.4	209.1	169.1	159.9	149.9	145.8	143.3	141.6
3250.6	57.5°	720.6	274.1	210.8	185.8	155.8	144.1	140.8	135.8	131.6	129.1
3021.5	60°	591.5	215.8	174.1	164.9	142.5	131.6	130.8	124.1	113.3	111.6
2832.4	62.5°	456.5	158.3	146.6	143.3	129.1	120.0	118.3	105.0	88.3	85.0
2564.1	65°	322.4	123.3	118.3	125.8	115.0	106.6	102.5	82.5	65.0	62.5
2145.9	67.5°	226.6	103.3	93.3	110.0	100.0	89.1	86.6	70.0	54.1	52.5
1622.8	70°	161.6	84.1	76.6	94.1	80.0	78.3	73.3	58.3	44.2	42.5
803.1	72.5°	114.1	64.1	59.1	81.6	55.0	67.5	60.0	45.0	33.3	31.7
273.2	75°	84.1	45.8	41.7	47.5	40.0	50.8	42.5	30.0	20.8	20.0
123.3	77.5°	61.6	29.2	25.0	23.3	23.3	31.7	23.3	12.5	9.2	8.3
62.5	80°	43.3	13.3	11.7	10.0	9.2	7.5	3.3	1.7	0.8	0.8
21.7	82.5°	25.8	5.8	5.8	4.2	2.5	0.0	0.0	0.0	0.0	0.0
8.3	85°	5.8	2.5	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
3.3	87.5°	0.8	0.8	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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