

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: P947142

Luminaire Tested: **GALN-SB2C-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947142
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-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 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: 11474 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

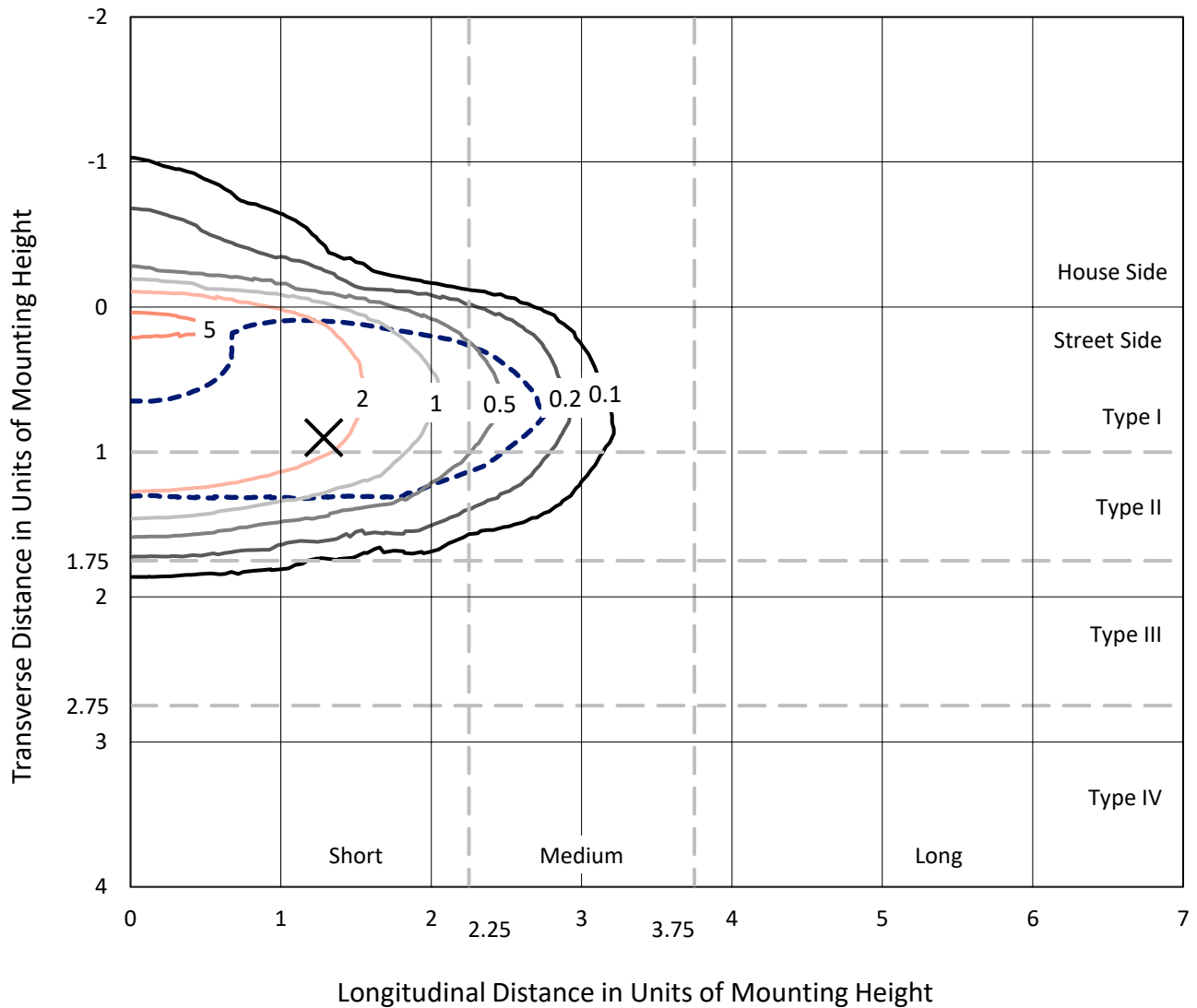
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

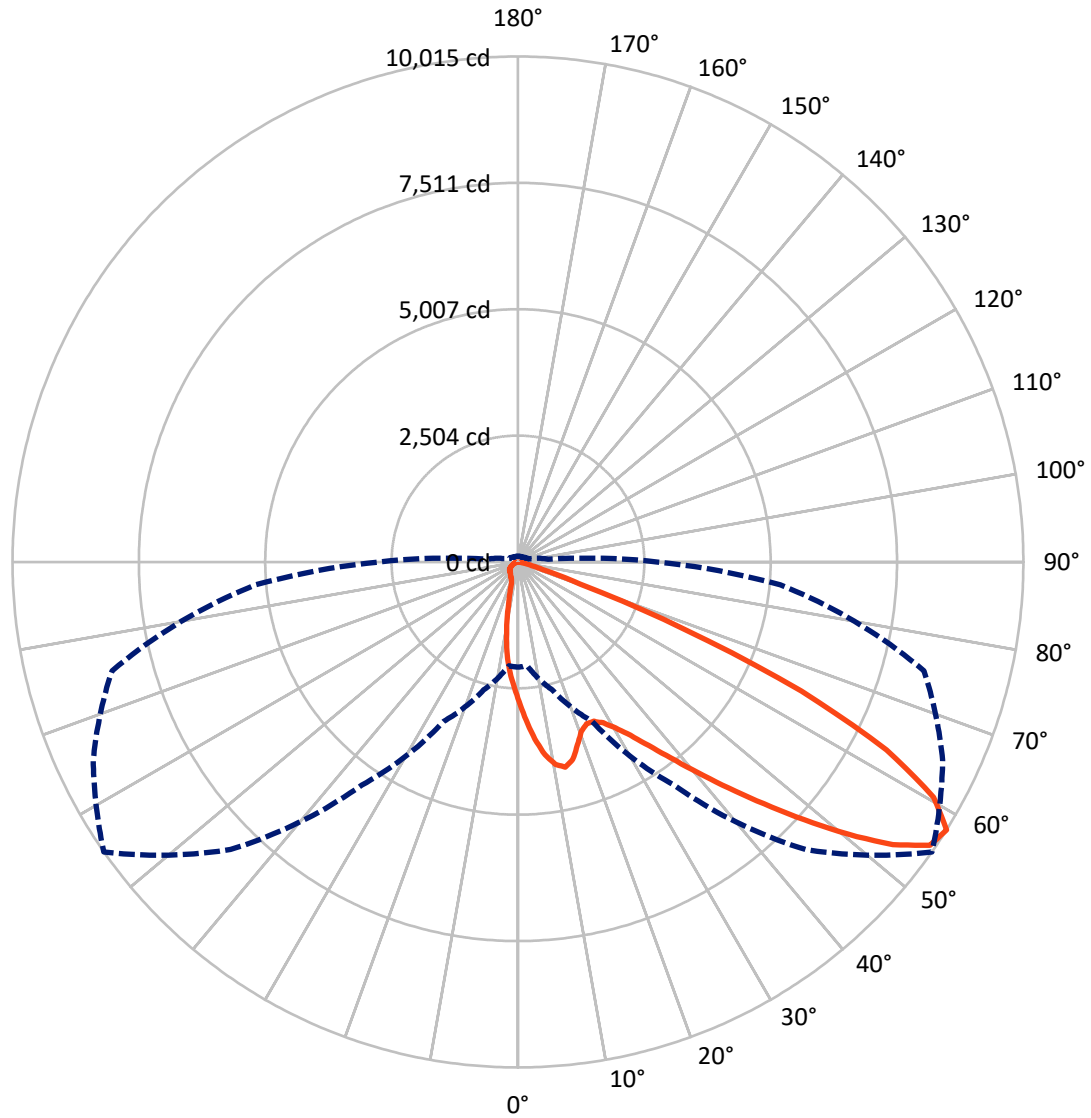
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	896.1	0.0	896.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	10577.9	0.0	10577.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	11474.0	0.0	11474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.3	2.2
10°-20°	621.4	5.4
20°-30°	994.3	8.7
30°-40°	1682.9	14.7
40°-50°	2762.9	24.1
50°-60°	3036.6	26.5
60°-70°	1741.8	15.2
70°-80°	355.9	3.1
80°-90°	21.0	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°	11474.0	100.0
0°-180°	11474.0	100.0

Coefficient of Utilization



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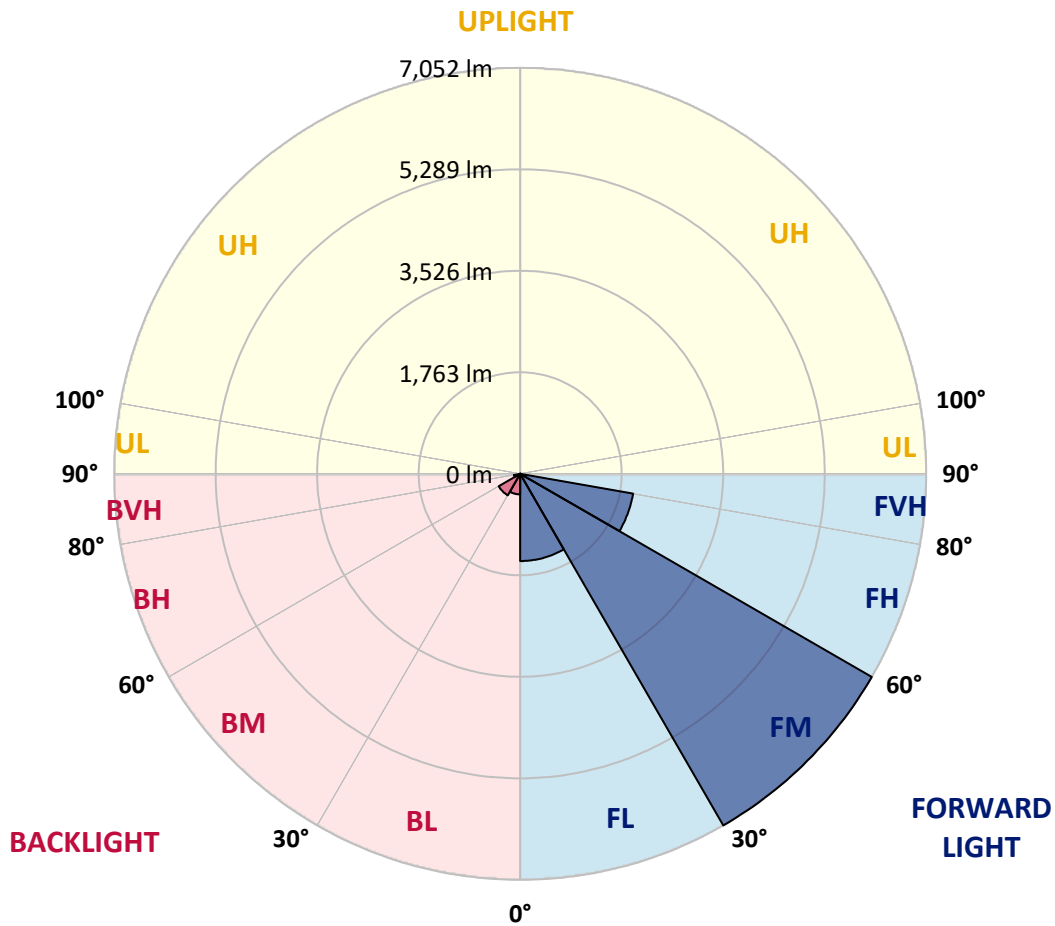
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1515.2	13.2			
FM (30°-60°)	7052.0	61.5			
FH (60°-80°)	1991.1	17.4			G2/5000
FVH (80°-90°)	19.6	0.2			G1/100
BL (0°-30°)	357.7	3.1	B1/500		
BM (30°-60°)	430.4	3.8	B1/1000		
BH (60°-80°)	106.6	0.9	B0/110		G0/110
BVH (80°-90°)	1.4	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°	2765.0	2765.0	2765.0	2765.0	2765.0	2765.0	2765.0	2765.0	2765.0	2765.0
2.5°	3430.7	3387.6	3381.2	3372.7	3290.6	3229.1	3139.9	3042.3	2932.6	2820.8
5°	3963.5	3929.5	3923.1	3883.5	3790.1	3685.4	3526.9	3326.7	3122.2	2881.7
7.5°	4066.8	4060.4	4089.4	4088.0	4075.3	3992.5	3858.8	3620.3	3313.3	2956.7
10°	3606.2	3622.5	3708.8	3784.5	3988.9	4107.8	4078.8	3882.1	3510.0	3042.3
12.5°	3186.6	3167.5	3229.1	3314.7	3552.4	3906.2	4170.1	4100.7	3734.9	3139.2
15°	2923.4	2915.7	2950.3	2989.9	3171.1	3527.6	4063.9	4278.3	3951.4	3253.8
17.5°	2839.2	2832.9	2843.5	2853.4	2970.8	3246.8	3811.4	4387.3	4158.7	3384.7
20°	2907.9	2899.4	2898.0	2890.2	2939.0	3127.2	3582.8	4395.1	4344.8	3503.6
22.5°	3108.1	3098.2	3063.5	3032.4	3036.6	3143.5	3481.0	4317.2	4484.9	3614.7
25°	3471.0	3454.8	3382.6	3277.9	3211.4	3256.7	3496.5	4214.6	4618.6	3701.7
27.5°	3925.3	3904.0	3811.4	3655.7	3503.6	3448.4	3609.0	4143.9	4729.7	3768.2
30°	4370.3	4342.7	4251.4	4130.4	3908.3	3734.2	3812.1	4175.0	4862.0	3837.5
32.5°	4850.7	4824.5	4703.5	4553.5	4369.6	4135.4	4090.1	4327.1	5024.0	3934.5
35°	5458.4	5417.4	5245.5	5041.0	4845.7	4608.7	4466.5	4589.6	5239.8	4082.3
37.5°	6150.4	6095.2	5909.8	5627.5	5372.8	5107.5	4925.0	4950.5	5556.1	4280.4
40°	6802.7	6752.5	6581.3	6315.2	5995.4	5673.5	5479.0	5422.4	5992.6	4521.7
42.5°	7194.0	7148.7	7076.5	6964.0	6694.5	6366.2	6120.7	5998.3	6509.1	4810.4
45°	7215.9	7176.3	7273.2	7404.1	7351.0	7132.4	6833.1	6608.9	7027.7	5081.3
47.5°	6865.0	6838.1	7132.4	7589.5	7817.3	7909.3	7633.3	7168.5	7455.7	5275.9
50°	5908.4	5898.5	6504.1	7343.3	7994.9	8589.9	8477.4	7689.2	7787.6	5376.4
52.5°	5123.1	5087.0	5440.0	6555.1	7736.6	8947.9	9302.3	8200.0	8019.6	5395.5
55°	3885.6	3853.8	4296.7	5236.3	6903.9	8820.5	9905.9	8727.1	8185.9	5346.7
57.5°	2084.3	2064.5	2624.2	3485.2	5396.9	8056.4	10014.8	9284.7	8326.0	5217.2
60°	811.5	808.0	1017.4	1691.0	3280.0	6554.4	9465.1	9619.3	8413.7	5058.0
62.5°	491.0	501.6	535.6	759.2	1449.0	4071.7	8197.9	9238.7	8472.4	4912.2
65°	406.1	406.8	411.1	521.4	694.1	1703.7	6171.6	7986.4	8327.4	4652.6
67.5°	348.1	354.5	370.7	413.9	489.6	747.1	3553.1	6186.5	7445.1	4048.4
70°	274.5	283.0	303.5	340.3	377.8	467.7	1313.1	4116.3	5687.7	3051.5
72.5°	231.4	230.6	241.3	276.6	300.0	329.0	505.2	2306.5	3305.5	1456.8
75°	179.0	186.1	199.5	231.4	245.5	238.4	273.8	842.6	1184.4	441.5
77.5°	140.1	145.7	157.8	188.9	203.1	169.1	157.8	301.4	380.6	158.5
80°	63.0	67.9	107.5	139.4	165.6	116.7	85.6	154.2	169.1	72.2
82.5°	11.3	19.1	63.0	73.6	84.9	75.7	44.6	79.9	82.8	29.0
85°	0.7	1.4	21.9	26.9	34.0	24.8	13.4	31.8	27.6	9.9
87.5°	0.0	0.0	0.0	0.7	0.7	3.5	4.2	5.7	4.2	3.5
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°
2765.0	0°	2765.0	2765.0	2765.0	2765.0	2765.0	2765.0	2765.0	2765.0	2765.0	2765.0
2771.3	2.5°	2720.4	2619.9	2522.3	2442.3	2395.6	2316.4	2264.0	2255.5	2233.6	2252.7
2778.4	5°	2668.0	2488.3	2306.5	2143.8	2010.0	1837.4	1708.6	1654.2	1606.8	1623.0
2796.8	7.5°	2643.3	2359.5	2076.5	1798.5	1512.7	1236.7	1031.6	945.9	880.9	890.0
2817.3	10°	2610.0	2225.8	1782.2	1357.7	974.9	702.6	561.1	508.7	479.7	480.4
2847.7	12.5°	2584.5	2065.9	1440.5	920.5	593.6	448.6	404.7	392.0	383.5	384.2
2893.7	15°	2571.8	1877.7	1103.0	613.4	424.5	379.9	369.3	363.7	358.0	357.3
2944.7	17.5°	2550.6	1668.3	807.3	447.9	371.4	355.9	346.7	340.3	333.2	331.8
2988.5	20°	2518.7	1430.6	590.1	378.5	348.1	336.1	323.3	314.8	306.4	304.9
3016.1	22.5°	2460.0	1179.4	453.5	350.2	331.1	317.7	302.1	292.2	283.7	282.3
3002.7	25°	2351.1	943.8	382.1	332.5	316.3	300.0	283.0	269.6	261.8	260.4
2973.7	27.5°	2213.1	741.5	346.7	316.3	297.2	282.3	263.2	250.5	243.4	242.0
2935.5	30°	2050.4	571.0	326.2	297.9	274.5	261.8	244.8	234.2	229.9	229.9
2908.6	32.5°	1874.9	456.3	317.7	279.5	254.7	240.6	227.1	222.9	221.5	220.7
2923.4	35°	1710.1	396.2	313.4	264.6	237.0	223.6	217.9	218.6	221.5	221.5
2969.4	37.5°	1563.6	377.1	311.3	254.0	221.5	209.4	213.0	219.3	216.5	216.5
3050.1	40°	1431.3	379.2	309.9	246.2	208.7	201.6	208.7	203.8	196.7	196.0
3148.4	42.5°	1330.1	396.9	307.1	239.8	200.9	196.0	193.2	185.4	184.7	186.1
3250.3	45°	1256.5	412.5	306.4	237.0	192.4	183.2	179.7	171.9	186.1	189.6
3292.0	47.5°	1169.5	412.5	306.4	227.1	178.3	174.8	169.1	160.6	174.8	178.3
3252.4	50°	1057.0	386.3	294.3	215.8	167.0	164.8	154.9	144.3	141.5	143.6
3159.7	52.5°	914.8	338.9	263.9	200.2	155.7	151.4	139.4	131.6	129.5	129.5
2993.5	55°	752.8	283.7	222.9	177.6	143.6	135.8	127.4	123.8	121.7	120.3
2760.7	57.5°	612.0	232.8	179.0	157.8	132.3	122.4	119.6	115.3	111.8	109.7
2566.1	60°	502.3	183.2	147.9	140.1	121.0	111.8	111.1	105.4	96.2	94.8
2405.5	62.5°	387.7	134.4	124.5	121.7	109.7	101.9	100.5	89.1	75.0	72.2
2177.7	65°	273.8	104.7	100.5	106.8	97.6	90.6	87.0	70.0	55.2	53.1
1822.5	67.5°	192.4	87.7	79.2	93.4	84.9	75.7	73.6	59.4	46.0	44.6
1378.2	70°	137.3	71.5	65.1	79.9	67.9	66.5	62.3	49.5	37.5	36.1
682.0	72.5°	96.9	54.5	50.2	69.3	46.7	57.3	50.9	38.2	28.3	26.9
232.1	75°	71.5	38.9	35.4	40.3	34.0	43.2	36.1	25.5	17.7	17.0
104.7	77.5°	52.4	24.8	21.2	19.8	19.8	26.9	19.8	10.6	7.8	7.1
53.1	80°	36.8	11.3	9.9	8.5	7.8	6.4	2.8	1.4	0.7	0.7
18.4	82.5°	21.9	5.0	5.0	3.5	2.1	0.0	0.0	0.0	0.0	0.0
7.1	85°	5.0	2.1	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
2.8	87.5°	0.7	0.7	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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