

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: P947646

Luminaire Tested: **GALN-SB2D-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947646
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-SB2D-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 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: 12573 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

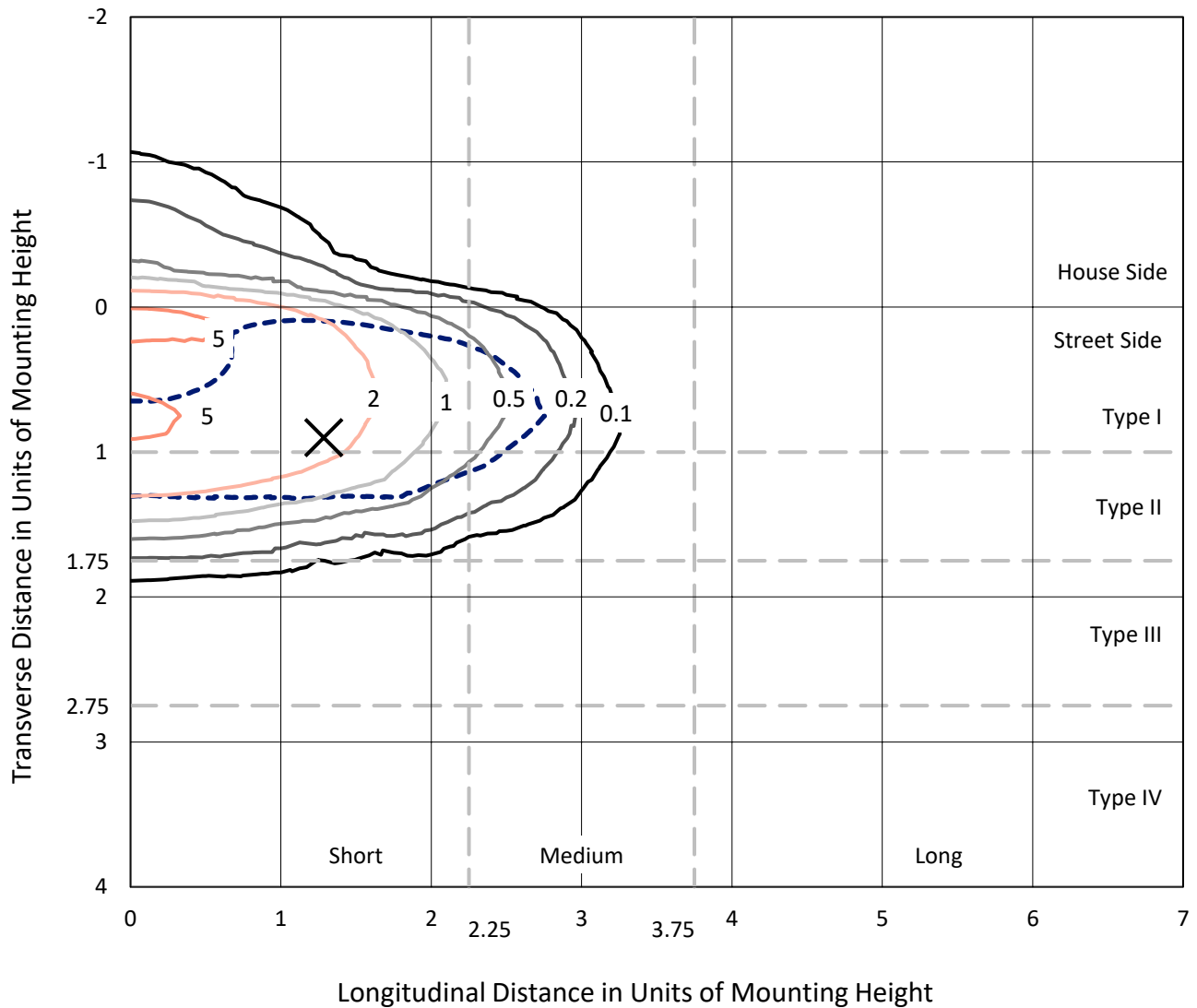
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

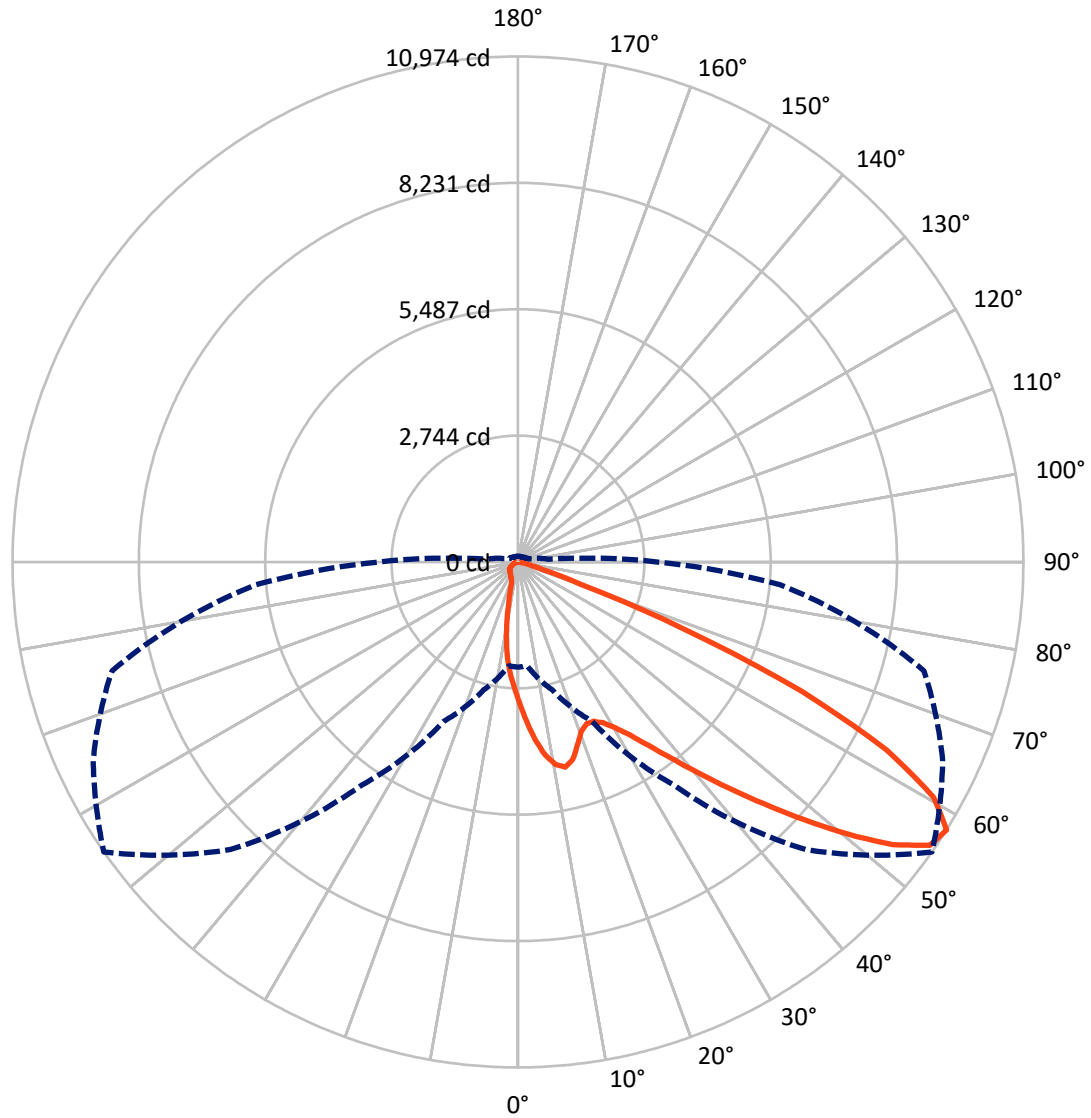
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	981.9	0.0	981.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	11591.1	0.0	11591.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	12573.0	0.0	12573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.9	2.2
10°-20°	680.9	5.4
20°-30°	1089.5	8.7
30°-40°	1844.0	14.7
40°-50°	3027.5	24.1
50°-60°	3327.5	26.5
60°-70°	1908.6	15.2
70°-80°	390.0	3.1
80°-90°	23.0	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°	12573.0	100.0
0°-180°	12573.0	100.0

Coefficient of Utilization



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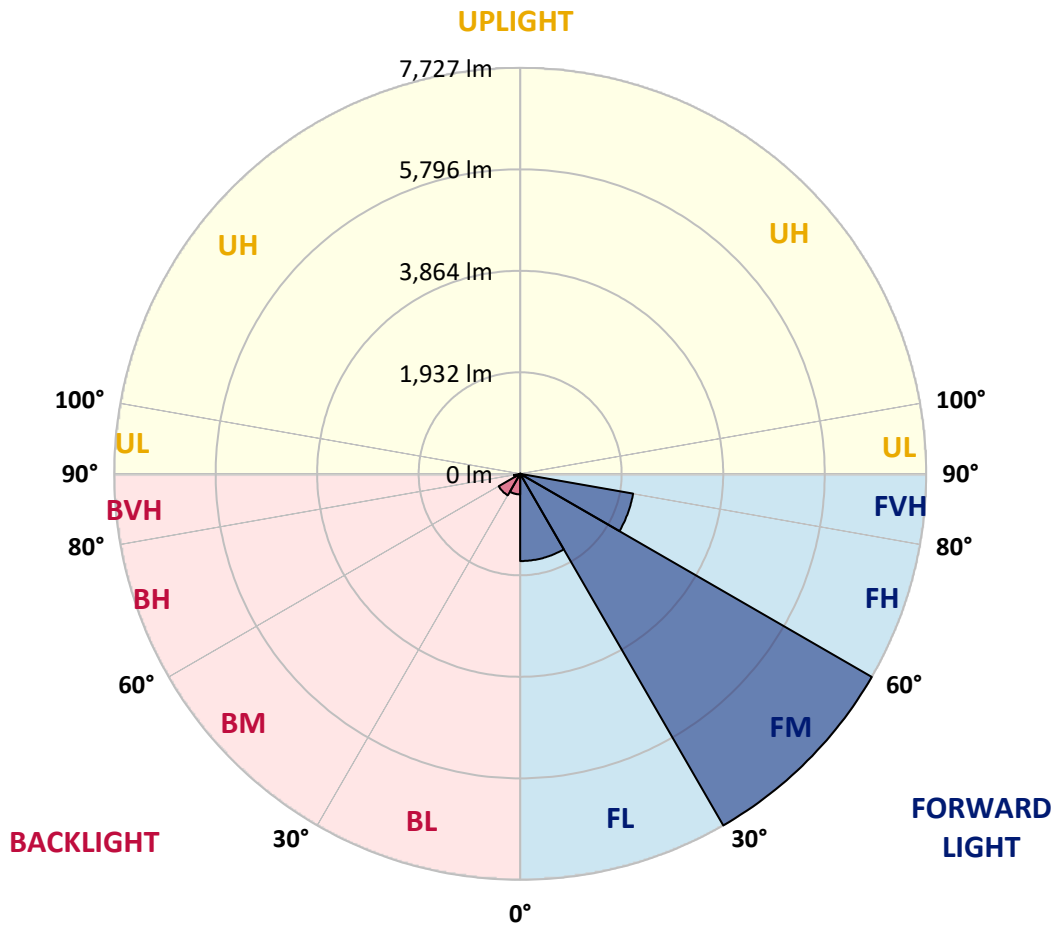
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1660.3	13.2			
FM (30°-60°)	7727.5	61.5			
FH (60°-80°)	2181.8	17.4			G2/5000
FVH (80°-90°)	21.5	0.2			G1/100
BL (0°-30°)	392.0	3.1	B1/500		
BM (30°-60°)	471.6	3.8	B1/1000		
BH (60°-80°)	116.8	0.9	B1/500		G1/500
BVH (80°-90°)	1.6	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°	3029.8	3029.8	3029.8	3029.8	3029.8	3029.8	3029.8	3029.8	3029.8	3029.8
2.5°	3759.3	3712.0	3705.0	3695.7	3605.8	3538.4	3440.7	3333.7	3213.5	3091.0
5°	4343.1	4305.9	4298.9	4255.5	4153.2	4038.4	3864.8	3645.4	3421.3	3157.7
7.5°	4456.3	4449.3	4481.1	4479.6	4465.6	4374.9	4228.4	3967.1	3630.6	3239.9
10°	3951.6	3969.4	4064.0	4147.0	4371.0	4501.3	4469.5	4253.9	3846.1	3333.7
12.5°	3491.8	3470.9	3538.4	3632.2	3892.7	4280.3	4569.5	4493.5	4092.7	3439.9
15°	3203.4	3194.9	3232.9	3276.3	3474.8	3865.5	4453.2	4688.1	4329.9	3565.5
17.5°	3111.2	3104.2	3115.8	3126.7	3255.4	3557.7	4176.4	4807.5	4557.1	3708.9
20°	3186.4	3177.1	3175.5	3167.0	3220.5	3426.7	3926.0	4816.0	4761.0	3839.2
22.5°	3405.8	3394.9	3357.0	3322.8	3327.5	3444.6	3814.4	4730.7	4914.5	3960.9
25°	3803.5	3785.7	3706.6	3591.9	3519.0	3568.6	3831.4	4618.3	5061.0	4056.3
27.5°	4301.2	4278.0	4176.4	4005.9	3839.2	3778.7	3954.7	4540.8	5182.7	4129.1
30°	4788.9	4758.7	4658.6	4526.1	4282.6	4091.9	4177.2	4574.9	5327.7	4205.1
32.5°	5315.3	5286.6	5154.0	4989.7	4788.1	4531.5	4481.9	4741.6	5505.2	4311.3
35°	5981.3	5936.3	5747.9	5523.8	5309.9	5050.2	4894.3	5029.2	5741.7	4473.3
37.5°	6739.5	6679.0	6475.9	6166.6	5887.5	5596.7	5396.7	5424.6	6088.3	4690.4
40°	7454.3	7399.2	7211.6	6920.1	6569.7	6216.9	6003.7	5941.7	6566.6	4954.8
42.5°	7883.0	7833.4	7754.3	7631.1	7335.7	6975.9	6706.9	6572.8	7132.5	5271.1
45°	7907.1	7863.6	7969.8	8113.3	8055.1	7815.6	7487.6	7241.9	7700.8	5568.0
47.5°	7522.5	7493.1	7815.6	8316.4	8566.0	8666.8	8364.5	7855.1	8169.9	5781.2
50°	6474.3	6463.5	7127.1	8046.6	8760.6	9412.6	9289.4	8425.7	8533.5	5891.3
52.5°	5613.8	5574.2	5961.1	7182.9	8477.7	9804.9	10193.3	8985.5	8787.8	5912.3
55°	4257.8	4222.9	4708.3	5737.8	7565.2	9665.4	10854.7	9563.0	8970.0	5858.8
57.5°	2284.0	2262.3	2875.5	3819.0	5913.8	8828.1	10974.0	10174.0	9123.5	5716.9
60°	889.2	885.4	1114.8	1852.9	3594.2	7182.2	10371.7	10540.7	9219.6	5542.5
62.5°	538.0	549.7	586.9	831.9	1587.8	4461.7	8983.1	10123.6	9283.9	5382.7
65°	445.0	445.8	450.4	571.4	760.5	1866.9	6762.7	8751.3	9125.0	5098.2
67.5°	381.4	388.4	406.2	453.5	536.5	818.7	3893.4	6779.0	8158.2	4436.1
70°	300.8	310.1	332.6	372.9	414.0	512.5	1438.9	4510.6	6232.5	3343.8
72.5°	253.5	252.7	264.4	303.1	328.7	360.5	553.5	2527.4	3622.1	1596.3
75°	196.1	203.9	218.6	253.5	269.0	261.3	300.0	923.4	1297.8	483.8
77.5°	153.5	159.7	172.9	207.0	222.5	185.3	172.9	330.3	417.1	173.7
80°	69.0	74.4	117.8	152.7	181.4	127.9	93.8	169.0	185.3	79.1
82.5°	12.4	20.9	69.0	80.6	93.0	83.0	48.8	87.6	90.7	31.8
85°	0.8	1.6	24.0	29.5	37.2	27.1	14.7	34.9	30.2	10.9
87.5°	0.0	0.0	0.0	0.8	0.8	3.9	4.7	6.2	4.7	3.9
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°
3029.8	0°	3029.8	3029.8	3029.8	3029.8	3029.8	3029.8	3029.8	3029.8	3029.8	3029.8
3036.8	2.5°	2980.9	2870.9	2763.9	2676.3	2625.1	2538.3	2480.9	2471.6	2447.5	2468.5
3044.5	5°	2923.6	2726.6	2527.4	2349.1	2202.6	2013.4	1872.3	1812.6	1760.7	1778.5
3064.7	7.5°	2896.4	2585.5	2275.4	1970.8	1657.5	1355.2	1130.4	1036.5	965.2	975.3
3087.2	10°	2860.0	2439.0	1952.9	1487.8	1068.3	769.9	614.8	557.4	525.6	526.4
3120.5	12.5°	2832.1	2263.8	1578.5	1008.6	650.5	491.5	443.5	429.5	420.2	421.0
3170.9	15°	2818.1	2057.6	1208.7	672.2	465.2	416.3	404.7	398.5	392.3	391.5
3226.7	17.5°	2794.9	1828.1	884.6	490.8	407.0	390.0	379.9	372.9	365.2	363.6
3274.8	20°	2760.0	1567.6	646.6	414.8	381.4	368.3	354.3	345.0	335.7	334.1
3305.0	22.5°	2695.6	1292.4	497.0	383.8	362.8	348.1	331.0	320.2	310.9	309.3
3290.3	25°	2576.2	1034.2	418.6	364.4	346.5	328.7	310.1	295.4	286.9	285.3
3258.5	27.5°	2425.1	812.5	379.9	346.5	325.6	309.3	288.4	274.4	266.7	265.1
3216.6	30°	2246.8	625.6	357.4	326.4	300.8	286.9	268.2	256.6	252.0	252.0
3187.2	32.5°	2054.5	500.1	348.1	306.2	279.1	263.6	248.9	244.2	242.7	241.9
3203.4	35°	1873.8	434.2	343.4	290.0	259.7	245.0	238.8	239.6	242.7	242.7
3253.8	37.5°	1713.4	413.2	341.1	278.3	242.7	229.5	233.4	240.3	237.2	237.2
3342.2	40°	1568.4	415.5	339.6	269.8	228.7	221.0	228.7	223.3	215.5	214.8
3450.0	42.5°	1457.5	434.9	336.5	262.8	220.2	214.8	211.7	203.1	202.3	203.9
3561.6	45°	1376.9	452.0	335.7	259.7	210.9	200.8	196.9	188.4	203.9	207.8
3607.4	47.5°	1281.5	452.0	335.7	248.9	195.4	191.5	185.3	176.0	191.5	195.4
3563.9	50°	1158.3	423.3	322.5	236.5	183.0	180.6	169.8	158.2	155.1	157.4
3462.4	52.5°	1002.4	371.4	289.2	219.4	170.6	165.9	152.7	144.2	141.9	141.9
3280.2	55°	824.9	310.9	244.2	194.6	157.4	148.9	139.5	135.7	133.3	131.8
3025.1	57.5°	670.6	255.1	196.1	172.9	145.0	134.1	131.0	126.4	122.5	120.2
2811.9	60°	550.4	200.8	162.0	153.5	132.6	122.5	121.7	115.5	105.4	103.9
2635.9	62.5°	424.9	147.3	136.4	133.3	120.2	111.6	110.1	97.7	82.2	79.1
2386.3	65°	300.0	114.7	110.1	117.1	107.0	99.2	95.4	76.8	60.5	58.1
1997.1	67.5°	210.9	96.1	86.8	102.3	93.0	83.0	80.6	65.1	50.4	48.8
1510.2	70°	150.4	78.3	71.3	87.6	74.4	72.9	68.2	54.3	41.1	39.5
747.4	72.5°	106.2	59.7	55.0	76.0	51.2	62.8	55.8	41.9	31.0	29.5
254.3	75°	78.3	42.6	38.8	44.2	37.2	47.3	39.5	27.9	19.4	18.6
114.7	77.5°	57.4	27.1	23.3	21.7	21.7	29.5	21.7	11.6	8.5	7.8
58.1	80°	40.3	12.4	10.9	9.3	8.5	7.0	3.1	1.6	0.8	0.8
20.2	82.5°	24.0	5.4	5.4	3.9	2.3	0.0	0.0	0.0	0.0	0.0
7.8	85°	5.4	2.3	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
3.1	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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