

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: P947835

Luminaire Tested: **GALN-SB3A-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947835
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-SB3A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA 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: 9979 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

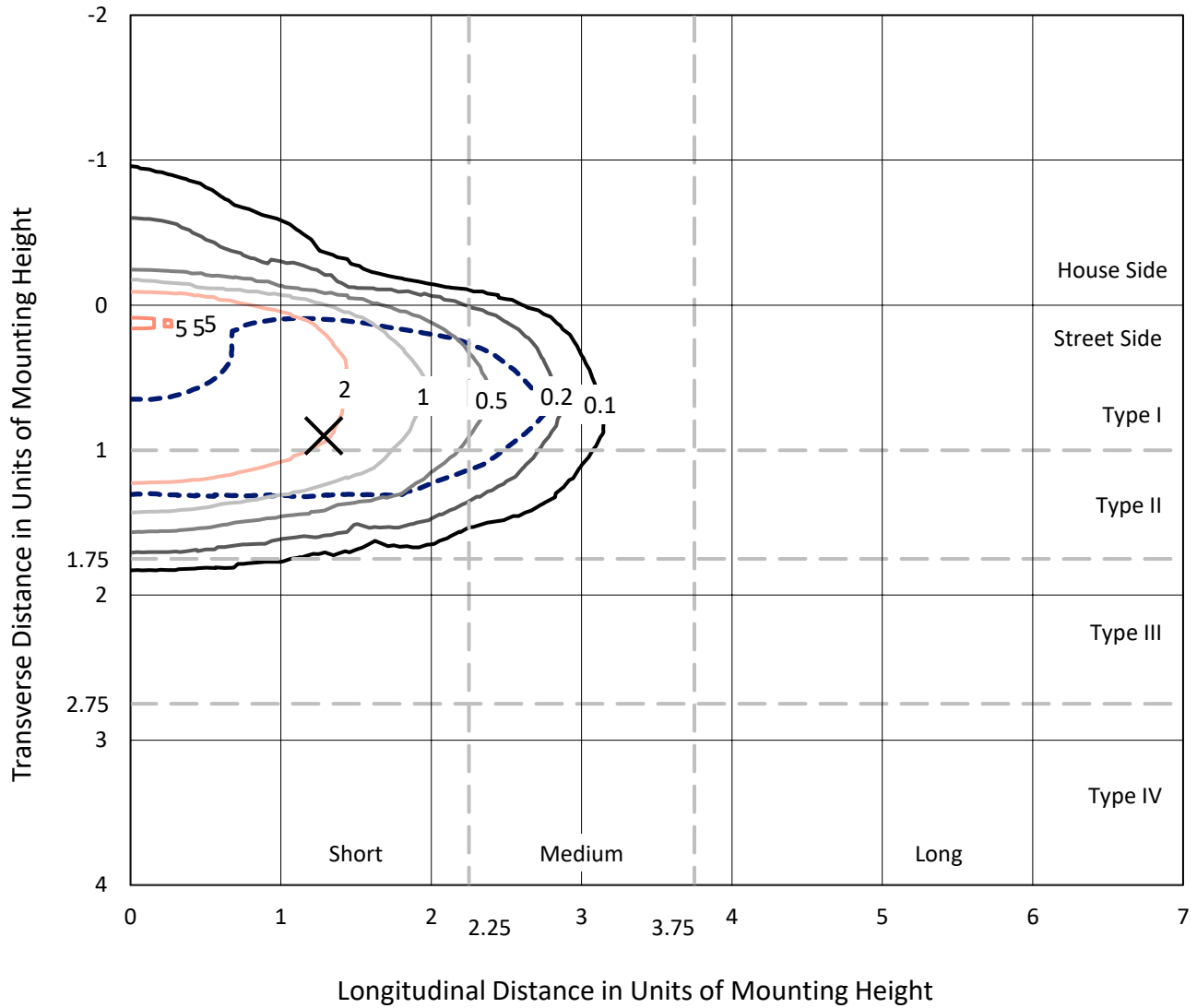
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

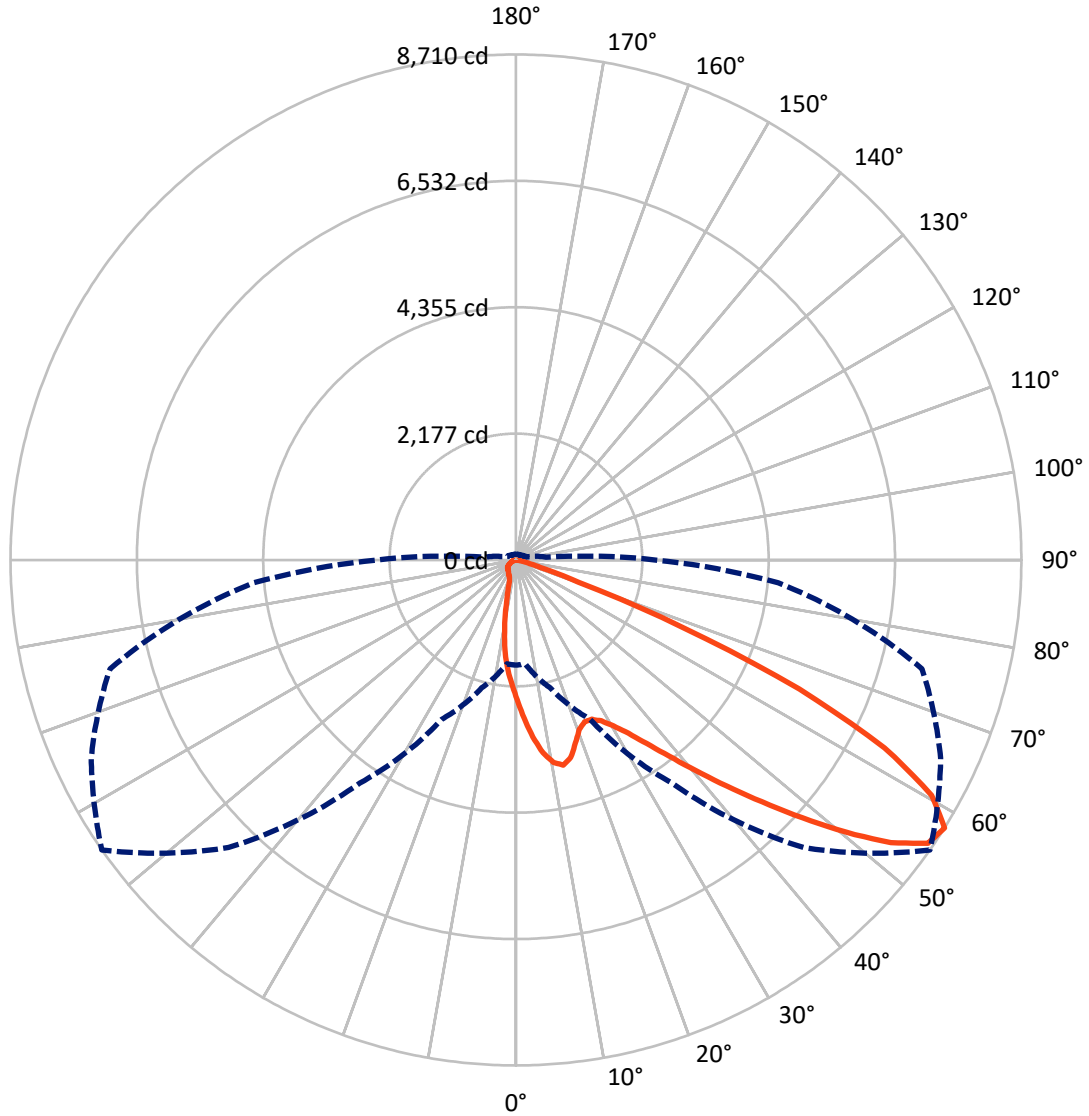
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	779.3	0.0	779.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	9199.7	0.0	9199.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	9979.0	0.0	9979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	2.2
10°-20°	540.5	5.4
20°-30°	864.7	8.7
30°-40°	1463.6	14.7
40°-50°	2402.9	24.1
50°-60°	2641.0	26.5
60°-70°	1514.9	15.2
70°-80°	309.5	3.1
80°-90°	18.3	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°	9979.0	100.0
0°-180°	9979.0	100.0

Coefficient of Utilization



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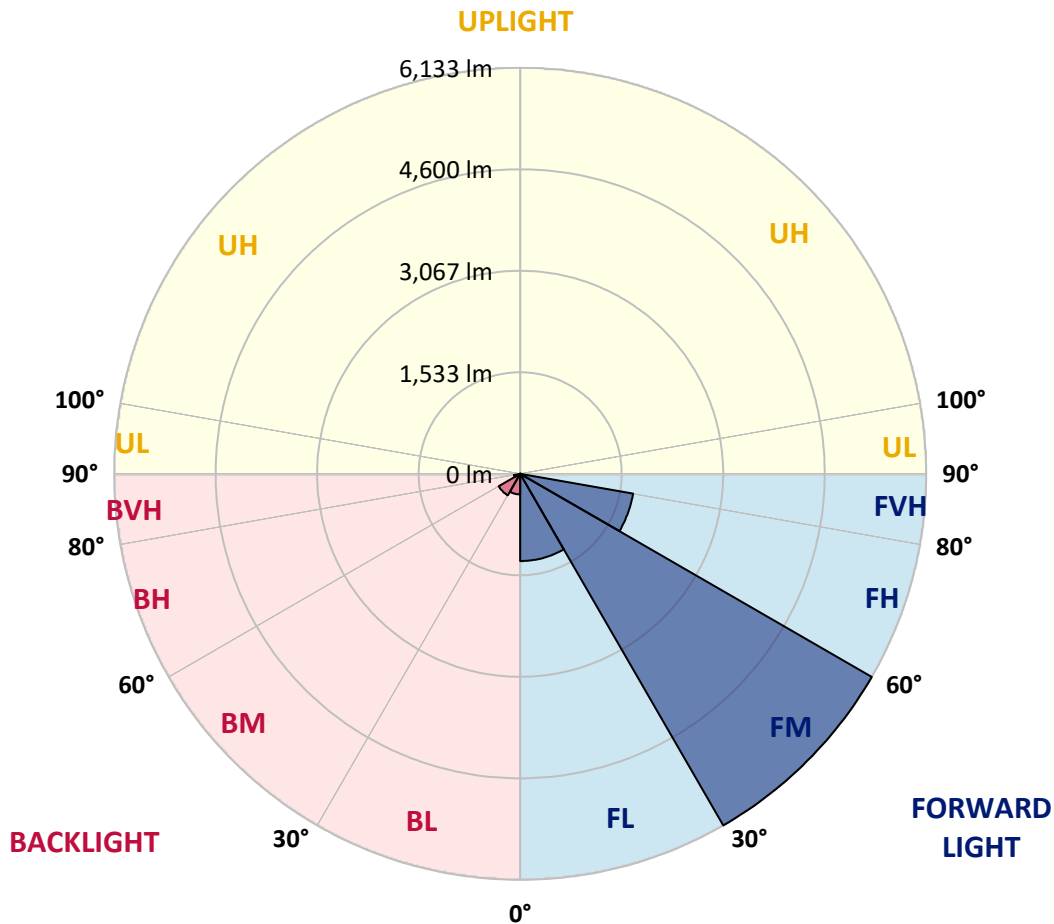
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1317.8	13.2			
FM (30°-60°)	6133.2	61.5			
FH (60°-80°)	1731.7	17.4			G1/1800
FVH (80°-90°)	17.0	0.2			G1/100
BL (0°-30°)	311.1	3.1	B1/500		
BM (30°-60°)	374.3	3.8	B1/1000		
BH (60°-80°)	92.7	0.9	B0/110		G0/110
BVH (80°-90°)	1.2	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7
2.5°	2983.7	2946.2	2940.6	2933.3	2861.9	2808.3	2730.8	2645.9	2550.5	2453.3
5°	3447.1	3417.5	3412.0	3377.5	3296.3	3205.2	3067.4	2893.3	2715.4	2506.2
7.5°	3536.9	3531.4	3556.6	3555.4	3544.3	3472.3	3356.0	3148.6	2881.6	2571.4
10°	3136.3	3150.5	3225.5	3291.4	3469.2	3572.6	3547.4	3376.3	3052.6	2645.9
12.5°	2771.4	2754.8	2808.3	2882.8	3089.6	3397.2	3626.7	3566.4	3248.3	2730.2
15°	2542.5	2535.8	2565.9	2600.4	2757.9	3068.0	3534.4	3720.9	3436.6	2829.9
17.5°	2469.3	2463.8	2473.0	2481.6	2583.8	2823.7	3314.8	3815.6	3616.9	2943.7
20°	2529.0	2521.6	2520.4	2513.6	2556.1	2719.7	3116.0	3822.4	3778.7	3047.1
22.5°	2703.1	2694.5	2664.4	2637.3	2641.0	2733.9	3027.4	3754.7	3900.5	3143.7
25°	3018.8	3004.6	2941.9	2850.8	2793.0	2832.3	3040.9	3665.5	4016.8	3219.4
27.5°	3413.8	3395.4	3314.8	3179.4	3047.1	2999.1	3138.8	3604.0	4113.5	3277.2
30°	3800.9	3776.9	3697.5	3592.3	3399.1	3247.7	3315.4	3631.0	4228.5	3337.5
32.5°	4218.7	4195.9	4090.7	3960.2	3800.3	3596.6	3557.2	3763.3	4369.4	3421.8
35°	4747.2	4711.5	4562.0	4384.2	4214.4	4008.2	3884.6	3991.6	4557.1	3550.4
37.5°	5349.0	5301.0	5139.8	4894.3	4672.8	4442.0	4283.3	4305.4	4832.2	3722.7
40°	5916.4	5872.7	5723.8	5492.4	5214.3	4934.3	4765.1	4715.9	5211.8	3932.5
42.5°	6256.6	6217.3	6154.5	6056.7	5822.2	5536.7	5323.2	5216.7	5661.0	4183.6
45°	6275.7	6241.2	6325.5	6439.4	6393.2	6203.1	5942.8	5747.8	6112.0	4419.3
47.5°	5970.5	5947.1	6203.1	6600.6	6798.7	6878.7	6638.7	6234.5	6484.3	4588.5
50°	5138.6	5130.0	5656.7	6386.5	6953.2	7470.7	7372.8	6687.4	6772.9	4675.9
52.5°	4455.6	4424.2	4731.2	5701.0	6728.6	7782.0	8090.3	7131.6	6974.7	4692.5
55°	3379.4	3351.7	3736.9	4554.0	6004.3	7671.3	8615.2	7590.0	7119.3	4650.0
57.5°	1812.7	1795.5	2282.2	3031.1	4693.7	7006.7	8709.9	8074.9	7241.2	4537.4
60°	705.8	702.7	884.8	1470.6	2852.7	5700.4	8231.8	8366.0	7317.5	4399.0
62.5°	427.0	436.3	465.8	660.2	1260.2	3541.2	7129.8	8034.9	7368.5	4272.2
65°	353.2	353.8	357.5	453.5	603.6	1481.7	5367.5	6945.8	7242.4	4046.4
67.5°	302.7	308.3	322.4	360.0	425.8	649.8	3090.2	5380.4	6475.1	3520.9
70°	238.7	246.1	264.0	296.0	328.6	406.7	1142.0	3580.0	4946.6	2653.9
72.5°	201.2	200.6	209.8	240.6	260.9	286.1	439.3	2006.0	2874.8	1267.0
75°	155.7	161.8	173.5	201.2	213.5	207.4	238.1	732.9	1030.1	384.0
77.5°	121.8	126.8	137.2	164.3	176.6	147.1	137.2	262.1	331.0	137.8
80°	54.8	59.1	93.5	121.2	144.0	101.5	74.5	134.1	147.1	62.8
82.5°	9.8	16.6	54.8	64.0	73.8	65.8	38.8	69.5	72.0	25.2
85°	0.6	1.2	19.1	23.4	29.5	21.5	11.7	27.7	24.0	8.6
87.5°	0.0	0.0	0.0	0.6	0.6	3.1	3.7	4.9	3.7	3.1
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°
2404.7	0°	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7
2410.2	2.5°	2365.9	2278.6	2193.6	2124.1	2083.5	2014.6	1969.0	1961.7	1942.6	1959.2
2416.4	5°	2320.4	2164.1	2006.0	1864.4	1748.1	1598.0	1486.0	1438.6	1397.4	1411.6
2432.4	7.5°	2298.9	2052.1	1806.0	1564.2	1315.6	1075.6	897.1	822.7	766.1	774.1
2450.2	10°	2269.9	1935.8	1550.0	1180.8	847.9	611.0	488.0	442.4	417.2	417.8
2476.7	12.5°	2247.8	1796.8	1252.8	800.5	516.3	390.1	352.0	340.9	333.5	334.1
2516.7	15°	2236.7	1633.1	959.3	533.5	369.2	330.4	321.2	316.3	311.4	310.7
2561.0	17.5°	2218.2	1450.9	702.1	389.5	323.0	309.5	301.5	296.0	289.8	288.6
2599.1	20°	2190.6	1244.2	513.2	329.2	302.7	292.3	281.2	273.8	266.4	265.2
2623.1	22.5°	2139.5	1025.7	394.4	304.6	288.0	276.3	262.7	254.1	246.7	245.5
2611.4	25°	2044.7	820.8	332.3	289.2	275.1	260.9	246.1	234.4	227.7	226.4
2586.2	27.5°	1924.7	644.9	301.5	275.1	258.4	245.5	228.9	217.8	211.7	210.4
2553.0	30°	1783.2	496.6	283.7	259.1	238.7	227.7	212.9	203.7	200.0	200.0
2529.6	32.5°	1630.6	396.9	276.3	243.1	221.5	209.2	197.5	193.8	192.6	192.0
2542.5	35°	1487.2	344.6	272.6	230.1	206.1	194.4	189.5	190.1	192.6	192.6
2582.5	37.5°	1359.9	328.0	270.7	220.9	192.6	182.1	185.2	190.8	188.3	188.3
2652.7	40°	1244.8	329.8	269.5	214.1	181.5	175.4	181.5	177.2	171.1	170.4
2738.2	42.5°	1156.8	345.2	267.1	208.6	174.8	170.4	168.0	161.2	160.6	161.8
2826.8	45°	1092.8	358.7	266.4	206.1	167.4	159.4	156.3	149.5	161.8	164.9
2863.1	47.5°	1017.1	358.7	266.4	197.5	155.1	152.0	147.1	139.7	152.0	155.1
2828.7	50°	919.3	336.0	256.0	187.7	145.2	143.4	134.8	125.5	123.1	124.9
2748.0	52.5°	795.6	294.7	229.5	174.1	135.4	131.7	121.2	114.5	112.6	112.6
2603.4	55°	654.7	246.7	193.8	154.4	124.9	118.1	110.8	107.7	105.8	104.6
2401.0	57.5°	532.3	202.4	155.7	137.2	115.1	106.5	104.0	100.3	97.2	95.4
2231.8	60°	436.9	159.4	128.6	121.8	105.2	97.2	96.6	91.7	83.7	82.5
2092.1	62.5°	337.2	116.9	108.3	105.8	95.4	88.6	87.4	77.5	65.2	62.8
1894.0	65°	238.1	91.1	87.4	92.9	84.9	78.8	75.7	60.9	48.0	46.1
1585.1	67.5°	167.4	76.3	68.9	81.2	73.8	65.8	64.0	51.7	40.0	38.8
1198.7	70°	119.4	62.1	56.6	69.5	59.1	57.8	54.1	43.1	32.6	31.4
593.2	72.5°	84.3	47.4	43.7	60.3	40.6	49.8	44.3	33.2	24.6	23.4
201.8	75°	62.1	33.8	30.8	35.1	29.5	37.5	31.4	22.2	15.4	14.8
91.1	77.5°	45.5	21.5	18.5	17.2	17.2	23.4	17.2	9.2	6.8	6.2
46.1	80°	32.0	9.8	8.6	7.4	6.8	5.5	2.5	1.2	0.6	0.6
16.0	82.5°	19.1	4.3	4.3	3.1	1.8	0.0	0.0	0.0	0.0	0.0
6.2	85°	4.3	1.8	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
2.5	87.5°	0.6	0.6	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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