

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: P945987

Luminaire Tested: **GALN-SB1D-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945987
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-SB1D-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9182 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

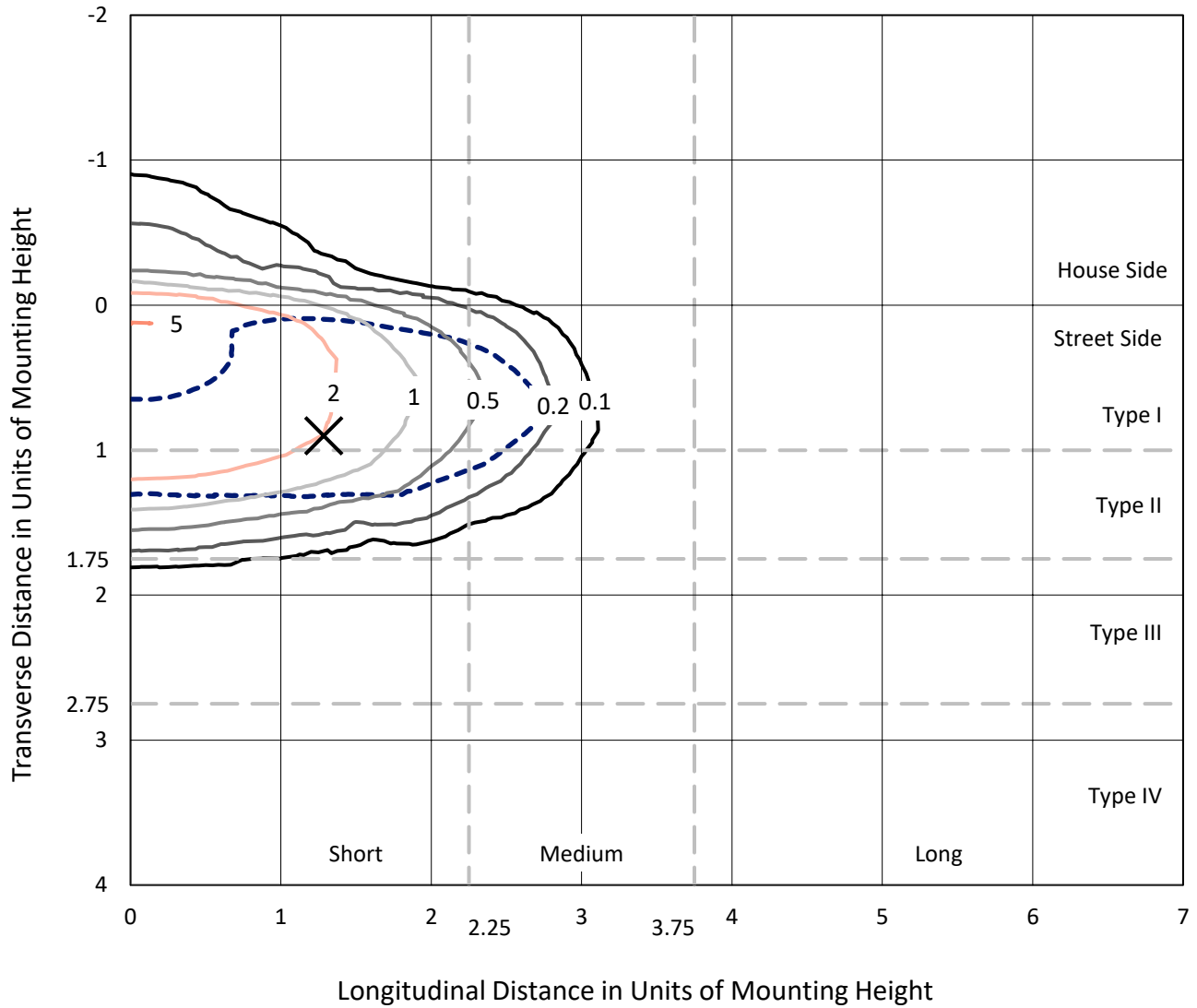
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

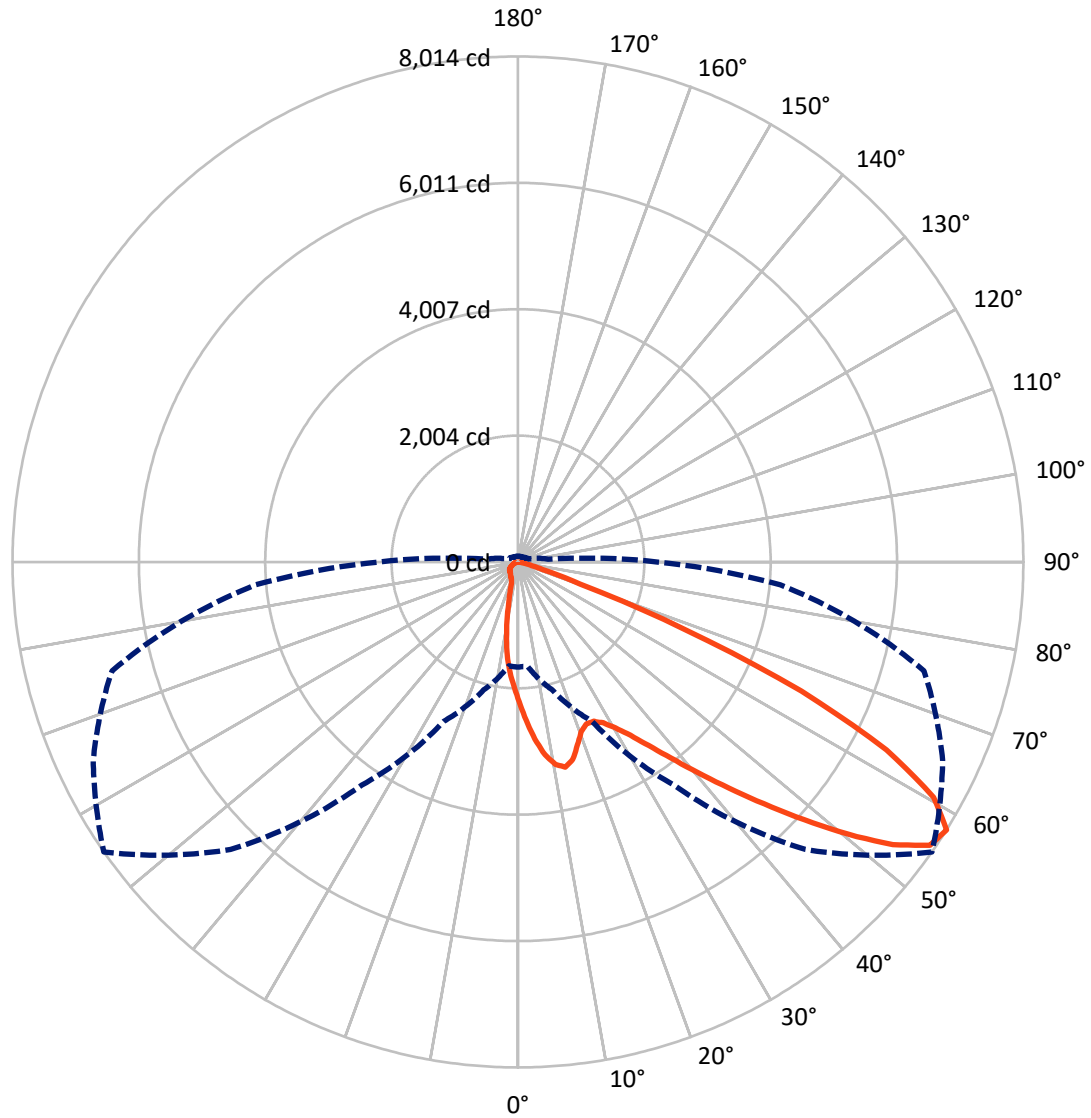
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	717.1	0.0	717.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	8464.9	0.0	8464.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	9182.0	0.0	9182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	2.2
10°-20°	497.3	5.4
20°-30°	795.7	8.7
30°-40°	1346.7	14.7
40°-50°	2211.0	24.1
50°-60°	2430.0	26.5
60°-70°	1393.9	15.2
70°-80°	284.8	3.1
80°-90°	16.8	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°	9182.0	100.0
0°-180°	9182.0	100.0

Coefficient of Utilization



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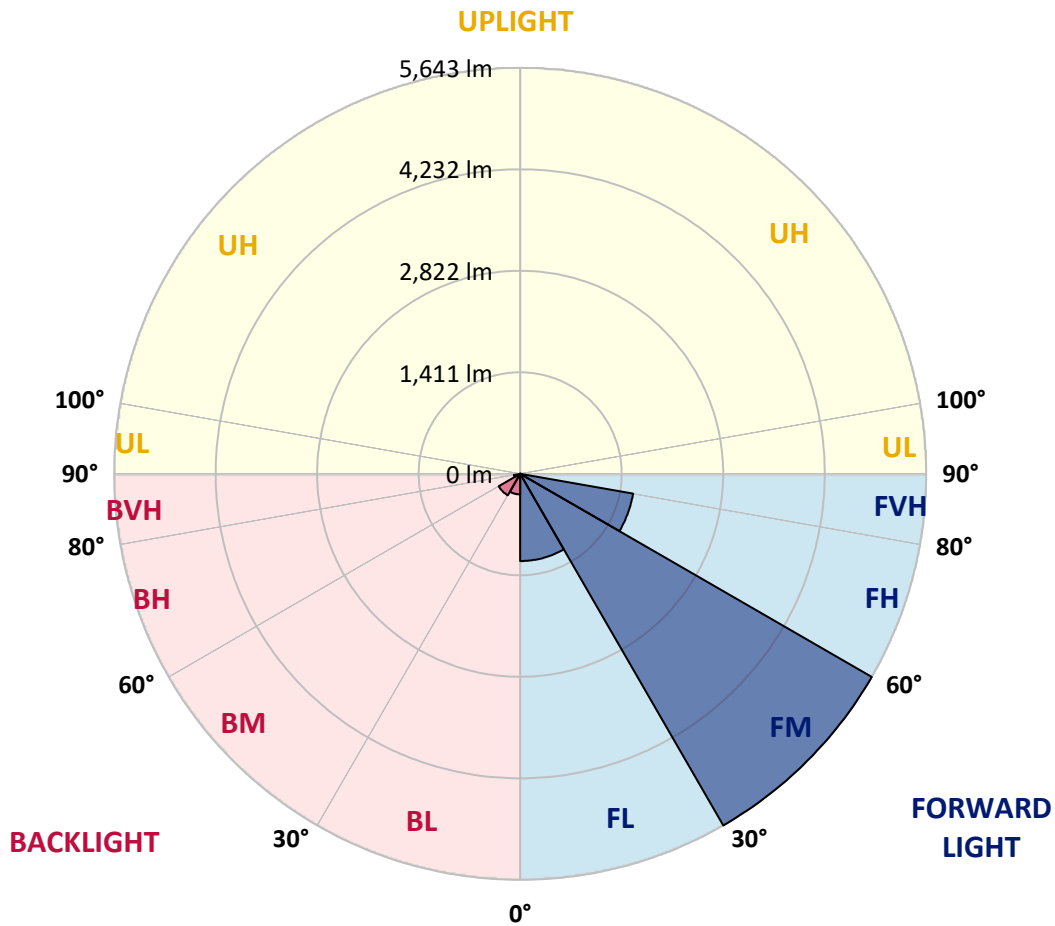
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1212.5	13.2			
FM (30°-60°)	5643.3	61.5			
FH (60°-80°)	1593.4	17.4			G1/1800
FVH (80°-90°)	15.7	0.2			G1/100
BL (0°-30°)	286.3	3.1	B1/500		
BM (30°-60°)	344.4	3.8	B1/1000		
BH (60°-80°)	85.3	0.9	B0/110		G0/110
BVH (80°-90°)	1.1	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°	2212.6	2212.6	2212.6	2212.6	2212.6	2212.6	2212.6	2212.6	2212.6	2212.6
2.5°	2745.4	2710.9	2705.8	2699.0	2633.3	2584.1	2512.7	2434.6	2346.8	2257.4
5°	3171.7	3144.6	3139.5	3107.8	3033.0	2949.2	2822.4	2662.2	2498.6	2306.1
7.5°	3254.4	3249.3	3272.5	3271.4	3261.2	3195.0	3088.0	2897.1	2651.4	2366.1
10°	2885.8	2898.8	2967.9	3028.5	3192.1	3287.2	3264.0	3106.6	2808.8	2434.6
12.5°	2550.1	2534.8	2584.1	2652.6	2842.8	3125.9	3337.1	3281.6	2988.9	2512.1
15°	2339.5	2333.2	2361.0	2392.7	2537.6	2823.0	3252.1	3423.7	3162.1	2603.9
17.5°	2272.1	2267.0	2275.5	2283.4	2377.4	2598.2	3050.0	3510.9	3328.0	2708.6
20°	2327.0	2320.2	2319.1	2312.8	2351.9	2502.5	2867.1	3517.1	3476.9	2803.7
22.5°	2487.2	2479.3	2451.6	2426.7	2430.0	2515.5	2785.6	3454.8	3589.0	2892.6
25°	2777.7	2764.7	2706.9	2623.1	2569.9	2606.1	2798.1	3372.7	3696.0	2962.3
27.5°	3141.2	3124.2	3050.0	2925.5	2803.7	2759.6	2888.1	3316.1	3784.9	3015.5
30°	3497.3	3475.2	3402.2	3305.4	3127.6	2988.3	3050.6	3341.0	3890.8	3071.0
32.5°	3881.7	3860.8	3764.0	3643.9	3496.7	3309.3	3273.1	3462.8	4020.5	3148.5
35°	4368.1	4335.2	4197.7	4034.0	3877.8	3688.1	3574.3	3672.8	4193.1	3266.9
37.5°	4921.8	4877.7	4729.3	4503.4	4299.6	4087.3	3941.2	3961.6	4446.2	3425.4
40°	5443.8	5403.6	5266.6	5053.7	4797.8	4540.2	4384.5	4339.2	4795.6	3618.5
42.5°	5756.9	5720.7	5662.9	5572.9	5357.2	5094.5	4898.0	4800.1	5208.9	3849.5
45°	5774.5	5742.8	5820.3	5925.1	5882.6	5707.7	5468.2	5288.7	5623.9	4066.3
47.5°	5493.7	5472.1	5707.7	6073.4	6255.7	6329.3	6108.5	5736.5	5966.4	4222.0
50°	4728.2	4720.3	5204.9	5876.4	6397.8	6874.0	6784.0	6153.3	6232.0	4302.4
52.5°	4099.7	4070.8	4353.4	5245.7	6191.2	7160.5	7444.1	6562.0	6417.7	4317.7
55°	3109.5	3084.0	3438.4	4190.3	5524.8	7058.6	7927.1	6983.8	6550.7	4278.6
57.5°	1668.0	1652.1	2100.0	2789.0	4318.8	6447.1	8014.3	7430.0	6662.8	4175.0
60°	649.4	646.6	814.2	1353.2	2624.8	5245.1	7574.4	7697.8	6733.0	4047.6
62.5°	392.9	401.4	428.6	607.5	1159.5	3258.4	6560.3	7393.2	6780.0	3931.0
65°	325.0	325.6	329.0	417.3	555.4	1363.4	4938.8	6391.1	6664.0	3723.2
67.5°	278.6	283.7	296.7	331.2	391.8	597.9	2843.4	4950.7	5957.9	3239.7
70°	219.7	226.5	242.9	272.3	302.3	374.2	1050.8	3294.0	4551.5	2441.9
72.5°	185.1	184.6	193.1	221.4	240.1	263.3	404.3	1845.8	2645.2	1165.8
75°	143.2	148.9	159.7	185.1	196.5	190.8	219.1	674.3	947.8	353.3
77.5°	112.1	116.6	126.3	151.2	162.5	135.3	126.3	241.2	304.6	126.8
80°	50.4	54.4	86.1	111.5	132.5	93.4	68.5	123.4	135.3	57.8
82.5°	9.1	15.3	50.4	58.9	67.9	60.6	35.7	64.0	66.2	23.2
85°	0.6	1.1	17.6	21.5	27.2	19.8	10.8	25.5	22.1	7.9
87.5°	0.0	0.0	0.0	0.6	0.6	2.8	3.4	4.5	3.4	2.8
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°
2212.6	0°	2212.6	2212.6	2212.6	2212.6	2212.6	2212.6	2212.6	2212.6	2212.6	2212.6
2217.7	2.5°	2177.0	2096.6	2018.4	1954.5	1917.1	1853.7	1811.8	1805.0	1787.4	1802.7
2223.4	5°	2135.1	1991.3	1845.8	1715.5	1608.5	1470.4	1367.3	1323.7	1285.8	1298.8
2238.1	7.5°	2115.3	1888.2	1661.7	1439.2	1210.5	989.7	825.5	757.0	704.9	712.3
2254.5	10°	2088.6	1781.2	1426.2	1086.5	780.2	562.2	449.0	407.1	383.9	384.4
2278.9	12.5°	2068.3	1653.2	1152.7	736.6	475.0	359.0	323.9	313.7	306.9	307.4
2315.7	15°	2058.1	1502.6	882.7	490.9	339.7	304.0	295.5	291.0	286.5	285.9
2356.4	17.5°	2041.1	1335.1	646.0	358.4	297.2	284.8	277.4	272.3	266.7	265.5
2391.5	20°	2015.6	1144.8	472.2	302.9	278.6	268.9	258.7	252.0	245.2	244.0
2413.6	22.5°	1968.6	943.8	362.9	280.3	265.0	254.2	241.8	233.8	227.0	225.9
2402.9	25°	1881.4	755.3	305.7	266.1	253.1	240.1	226.5	215.7	209.5	208.4
2379.7	27.5°	1771.0	593.4	277.4	253.1	237.8	225.9	210.6	200.4	194.8	193.6
2349.1	30°	1640.8	456.9	261.0	238.4	219.7	209.5	195.9	187.4	184.0	184.0
2327.6	32.5°	1500.4	365.2	254.2	223.6	203.8	192.5	181.7	178.3	177.2	176.6
2339.5	35°	1368.5	317.1	250.8	211.8	189.7	178.9	174.4	174.9	177.2	177.2
2376.3	37.5°	1251.3	301.8	249.1	203.3	177.2	167.6	170.4	175.5	173.3	173.3
2440.8	40°	1145.4	303.5	248.0	197.0	167.0	161.4	167.0	163.1	157.4	156.8
2519.5	42.5°	1064.4	317.6	245.7	191.9	160.8	156.8	154.6	148.3	147.8	148.9
2601.0	45°	1005.5	330.1	245.2	189.7	154.0	146.6	143.8	137.6	148.9	151.7
2634.4	47.5°	935.9	330.1	245.2	181.7	142.7	139.8	135.3	128.5	139.8	142.7
2602.7	50°	845.9	309.1	235.5	172.7	133.6	131.9	124.0	115.5	113.2	114.9
2528.6	52.5°	732.1	271.2	211.2	160.2	124.6	121.2	111.5	105.3	103.6	103.6
2395.5	55°	602.4	227.0	178.3	142.1	114.9	108.7	101.9	99.1	97.4	96.3
2209.2	57.5°	489.7	186.3	143.2	126.3	105.9	97.9	95.7	92.3	89.5	87.8
2053.5	60°	402.0	146.6	118.3	112.1	96.8	89.5	88.9	84.4	77.0	75.9
1925.0	62.5°	310.3	107.6	99.6	97.4	87.8	81.5	80.4	71.3	60.0	57.8
1742.7	65°	219.1	83.8	80.4	85.5	78.1	72.5	69.6	56.1	44.2	42.5
1458.5	67.5°	154.0	70.2	63.4	74.7	67.9	60.6	58.9	47.6	36.8	35.7
1102.9	70°	109.8	57.2	52.1	64.0	54.4	53.2	49.8	39.6	30.0	28.9
545.8	72.5°	77.6	43.6	40.2	55.5	37.4	45.9	40.8	30.6	22.6	21.5
185.7	75°	57.2	31.1	28.3	32.3	27.2	34.5	28.9	20.4	14.2	13.6
83.8	77.5°	41.9	19.8	17.0	15.9	15.9	21.5	15.9	8.5	6.2	5.7
42.5	80°	29.4	9.1	7.9	6.8	6.2	5.1	2.3	1.1	0.6	0.6
14.7	82.5°	17.6	4.0	4.0	2.8	1.7	0.0	0.0	0.0	0.0	0.0
5.7	85°	4.0	1.7	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
2.3	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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