

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: P947037

Luminaire Tested: **GALN-SB2C-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947037
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-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 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: 12770 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

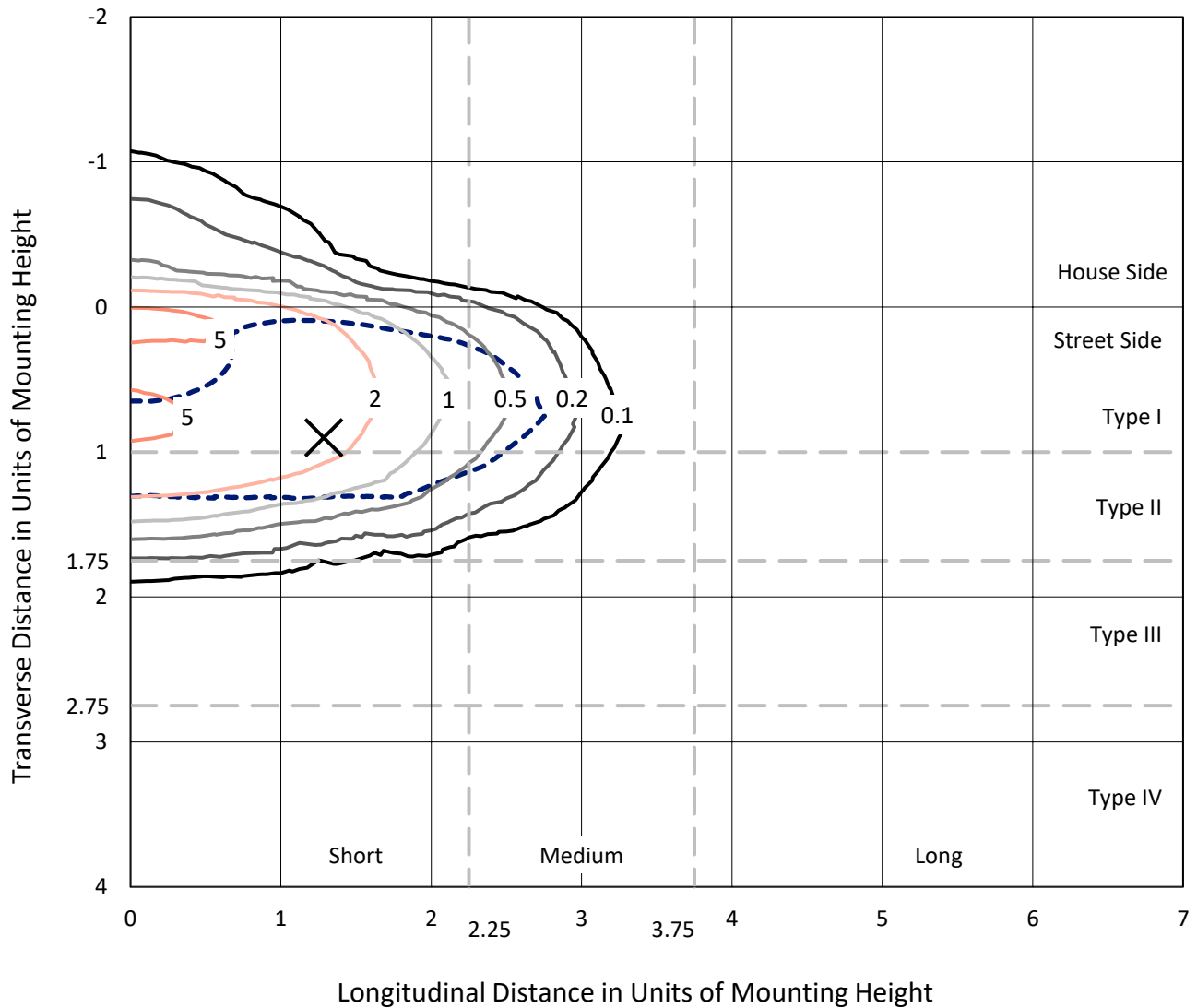
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

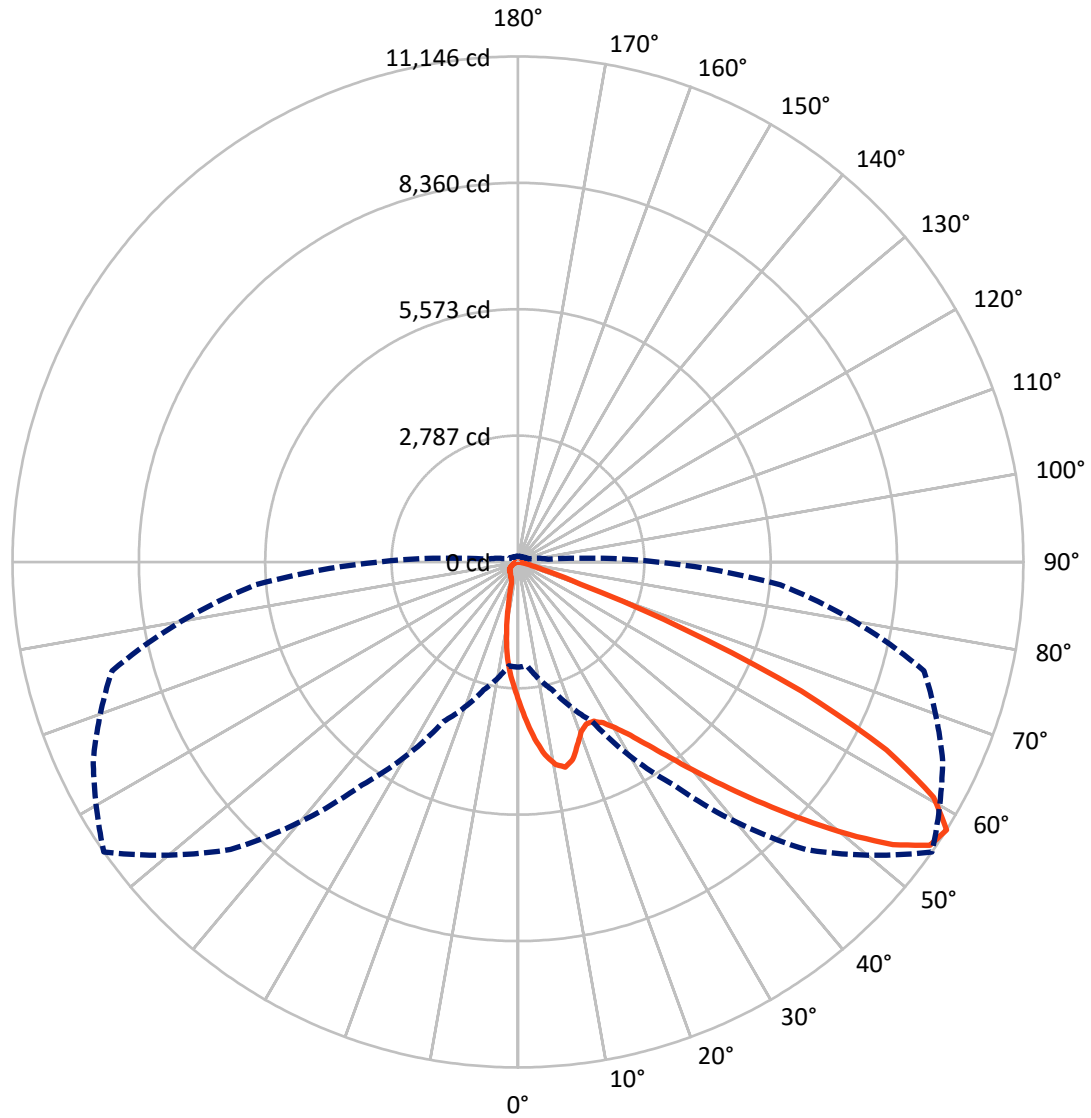
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	997.3	0.0	997.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	11772.7	0.0	11772.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	12770.0	0.0	12770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.3	2.2
10°-20°	691.6	5.4
20°-30°	1106.6	8.7
30°-40°	1872.9	14.7
40°-50°	3075.0	24.1
50°-60°	3379.6	26.5
60°-70°	1938.5	15.2
70°-80°	396.1	3.1
80°-90°	23.4	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°	12770.0	100.0
0°-180°	12770.0	100.0

Coefficient of Utilization



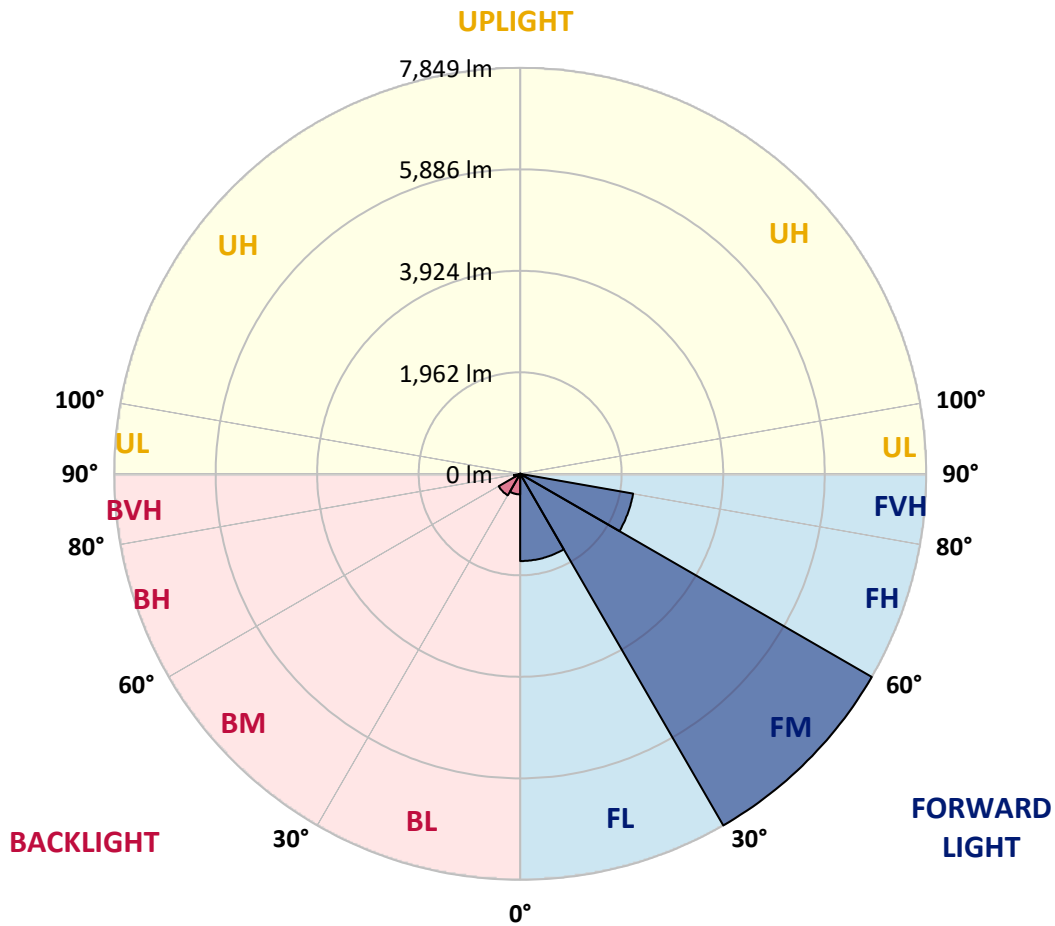
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1686.4	13.2			
FM (30°-60°)	7848.5	61.5			
FH (60°-80°)	2216.0	17.4			G2/5000
FVH (80°-90°)	21.8	0.2			G1/100
BL (0°-30°)	398.1	3.1	B1/500		
BM (30°-60°)	479.0	3.8	B1/1000		
BH (60°-80°)	118.6	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°	3077.3	3077.3	3077.3	3077.3	3077.3	3077.3	3077.3	3077.3	3077.3	3077.3
2.5°	3818.2	3770.2	3763.1	3753.7	3662.3	3593.8	3494.6	3385.9	3263.9	3139.5
5°	4411.2	4373.4	4366.3	4322.2	4218.2	4101.7	3925.3	3702.5	3474.9	3207.2
7.5°	4526.1	4519.0	4551.3	4549.7	4535.6	4443.4	4294.6	4029.3	3687.5	3290.6
10°	4013.5	4031.6	4127.7	4211.9	4439.5	4571.8	4539.5	4320.6	3906.4	3385.9
12.5°	3546.6	3525.3	3593.8	3689.1	3953.7	4347.4	4641.1	4563.9	4156.8	3493.8
15°	3253.6	3245.0	3283.6	3327.7	3529.2	3926.1	4523.0	4761.6	4397.8	3621.4
17.5°	3159.9	3152.8	3164.7	3175.7	3306.4	3613.5	4241.9	4882.8	4628.5	3767.0
20°	3236.3	3226.9	3225.3	3216.6	3271.0	3480.4	3987.5	4891.5	4835.6	3899.3
22.5°	3459.2	3448.1	3409.5	3374.9	3379.6	3498.5	3874.1	4804.9	4991.5	4023.0
25°	3863.1	3845.0	3764.7	3648.1	3574.1	3624.5	3891.5	4690.7	5140.3	4119.8
27.5°	4368.6	4345.0	4241.9	4068.6	3899.3	3837.9	4016.7	4611.9	5263.9	4193.8
30°	4863.9	4833.2	4731.6	4597.0	4349.7	4156.0	4242.6	4646.6	5411.2	4271.0
32.5°	5398.6	5369.4	5234.8	5067.9	4863.1	4602.5	4552.1	4815.9	5591.5	4378.9
35°	6075.0	6029.3	5838.0	5610.4	5393.1	5129.3	4971.0	5108.0	5831.7	4543.4
37.5°	6845.1	6783.7	6577.4	6263.2	5979.7	5684.4	5481.3	5509.6	6183.6	4763.9
40°	7571.1	7515.2	7324.6	7028.6	6672.6	6314.4	6097.8	6034.8	6669.5	5032.4
42.5°	8006.5	7956.1	7875.8	7750.6	7450.6	7085.2	6812.0	6675.8	7244.3	5353.7
45°	8030.9	7986.8	8094.7	8240.4	8181.3	7938.0	7604.9	7355.3	7821.5	5655.3
47.5°	7640.4	7610.5	7938.0	8446.7	8700.3	8802.6	8495.5	7978.2	8297.9	5871.8
50°	6575.8	6564.8	7238.8	8172.7	8897.9	9560.1	9434.9	8557.7	8667.2	5983.6
52.5°	5701.7	5661.6	6054.5	7295.5	8610.5	9958.6	10353.1	9126.3	8925.5	6004.9
55°	4324.5	4289.1	4782.0	5827.7	7683.7	9816.8	11024.7	9712.9	9110.5	5950.6
57.5°	2319.8	2297.7	2920.6	3878.9	6006.5	8966.4	11146.0	10333.4	9266.4	5806.5
60°	903.2	899.2	1132.3	1881.9	3650.5	7294.7	10534.2	10705.8	9364.1	5629.3
62.5°	546.5	558.3	596.1	844.9	1612.6	4531.6	9123.9	10282.2	9429.4	5467.1
65°	452.0	452.8	457.5	580.3	772.5	1896.1	6868.7	8888.4	9268.0	5178.1
67.5°	387.4	394.5	412.6	460.6	544.9	831.5	3954.4	6885.2	8286.1	4505.6
70°	305.5	315.0	337.8	378.8	420.5	520.5	1461.5	4581.2	6330.1	3396.2
72.5°	257.5	256.7	268.5	307.9	333.9	366.2	562.2	2567.0	3678.8	1621.3
75°	199.2	207.1	222.1	257.5	273.2	265.4	304.7	937.8	1318.1	491.4
77.5°	155.9	162.2	175.6	210.2	226.0	188.2	175.6	335.4	423.6	176.4
80°	70.1	75.6	119.7	155.1	184.3	129.9	95.3	171.7	188.2	80.3
82.5°	12.6	21.3	70.1	81.9	94.5	84.3	49.6	89.0	92.1	32.3
85°	0.8	1.6	24.4	29.9	37.8	27.6	15.0	35.4	30.7	11.0
87.5°	0.0	0.0	0.0	0.8	0.8	3.9	4.7	6.3	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°
3077.3	0°	3077.3	3077.3	3077.3	3077.3	3077.3	3077.3	3077.3	3077.3	3077.3	3077.3
3084.3	2.5°	3027.6	2915.8	2807.2	2718.2	2666.2	2578.0	2519.8	2510.3	2485.9	2507.2
3092.2	5°	2969.4	2769.4	2567.0	2385.9	2237.1	2044.9	1901.6	1841.0	1788.2	1806.4
3112.7	7.5°	2941.8	2626.1	2311.1	2001.6	1683.5	1376.4	1148.1	1052.8	980.3	990.6
3135.5	10°	2904.8	2477.2	1983.5	1511.1	1085.1	781.9	624.4	566.2	533.9	534.7
3169.4	12.5°	2876.5	2299.3	1603.2	1024.4	660.6	499.2	450.4	436.2	426.8	427.6
3220.6	15°	2862.3	2089.8	1227.6	682.7	472.5	422.8	411.0	404.7	398.4	397.6
3277.3	17.5°	2838.7	1856.7	898.5	498.4	413.4	396.1	385.8	378.8	370.9	369.3
3326.1	20°	2803.2	1592.2	656.7	421.3	387.4	374.0	359.9	350.4	341.0	339.4
3356.8	22.5°	2737.9	1312.6	504.7	389.8	368.5	353.6	336.2	325.2	315.8	314.2
3341.8	25°	2616.6	1050.4	425.2	370.1	352.0	333.9	315.0	300.0	291.3	289.8
3309.5	27.5°	2463.1	825.2	385.8	352.0	330.7	314.2	292.9	278.7	270.9	269.3
3267.0	30°	2282.0	635.5	363.0	331.5	305.5	291.3	272.4	260.6	255.9	255.9
3237.1	32.5°	2086.7	507.9	353.6	311.0	283.5	267.7	252.8	248.0	246.5	245.7
3253.6	35°	1903.2	441.0	348.8	294.5	263.8	248.8	242.5	243.3	246.5	246.5
3304.8	37.5°	1740.2	419.7	346.5	282.7	246.5	233.1	237.0	244.1	241.0	241.0
3394.6	40°	1593.0	422.1	344.9	274.0	232.3	224.4	232.3	226.8	218.9	218.1
3504.0	42.5°	1480.4	441.7	341.7	266.9	223.6	218.1	215.0	206.3	205.5	207.1
3617.4	45°	1398.5	459.1	341.0	263.8	214.2	203.9	200.0	191.3	207.1	211.0
3663.9	47.5°	1301.6	459.1	341.0	252.8	198.4	194.5	188.2	178.7	194.5	198.4
3619.8	50°	1176.4	429.9	327.6	240.2	185.8	183.5	172.4	160.6	157.5	159.8
3516.6	52.5°	1018.1	377.2	293.7	222.8	173.2	168.5	155.1	146.5	144.1	144.1
3331.6	55°	837.8	315.8	248.0	197.6	159.8	151.2	141.7	137.8	135.4	133.9
3072.5	57.5°	681.1	259.1	199.2	175.6	147.2	136.2	133.1	128.4	124.4	122.1
2856.0	60°	559.1	203.9	164.6	155.9	134.6	124.4	123.6	117.3	107.1	105.5
2677.2	62.5°	431.5	149.6	138.6	135.4	122.1	113.4	111.8	99.2	83.5	80.3
2423.7	65°	304.7	116.5	111.8	118.9	108.7	100.8	96.9	78.0	61.4	59.1
2028.4	67.5°	214.2	97.6	88.2	103.9	94.5	84.3	81.9	66.1	51.2	49.6
1533.9	70°	152.8	79.5	72.4	89.0	75.6	74.0	69.3	55.1	41.7	40.2
759.1	72.5°	107.9	60.6	55.9	77.2	52.0	63.8	56.7	42.5	31.5	29.9
258.3	75°	79.5	43.3	39.4	44.9	37.8	48.0	40.2	28.3	19.7	18.9
116.5	77.5°	58.3	27.6	23.6	22.0	22.0	29.9	22.0	11.8	8.7	7.9
59.1	80°	40.9	12.6	11.0	9.4	8.7	7.1	3.1	1.6	0.8	0.8
20.5	82.5°	24.4	5.5	5.5	3.9	2.4	0.0	0.0	0.0	0.0	0.0
7.9	85°	5.5	2.4	2.4	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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