

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: P949578

Luminaire Tested: **GALN-SB4B-750-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949578
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-SB4B-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 450mA 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: 20357 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

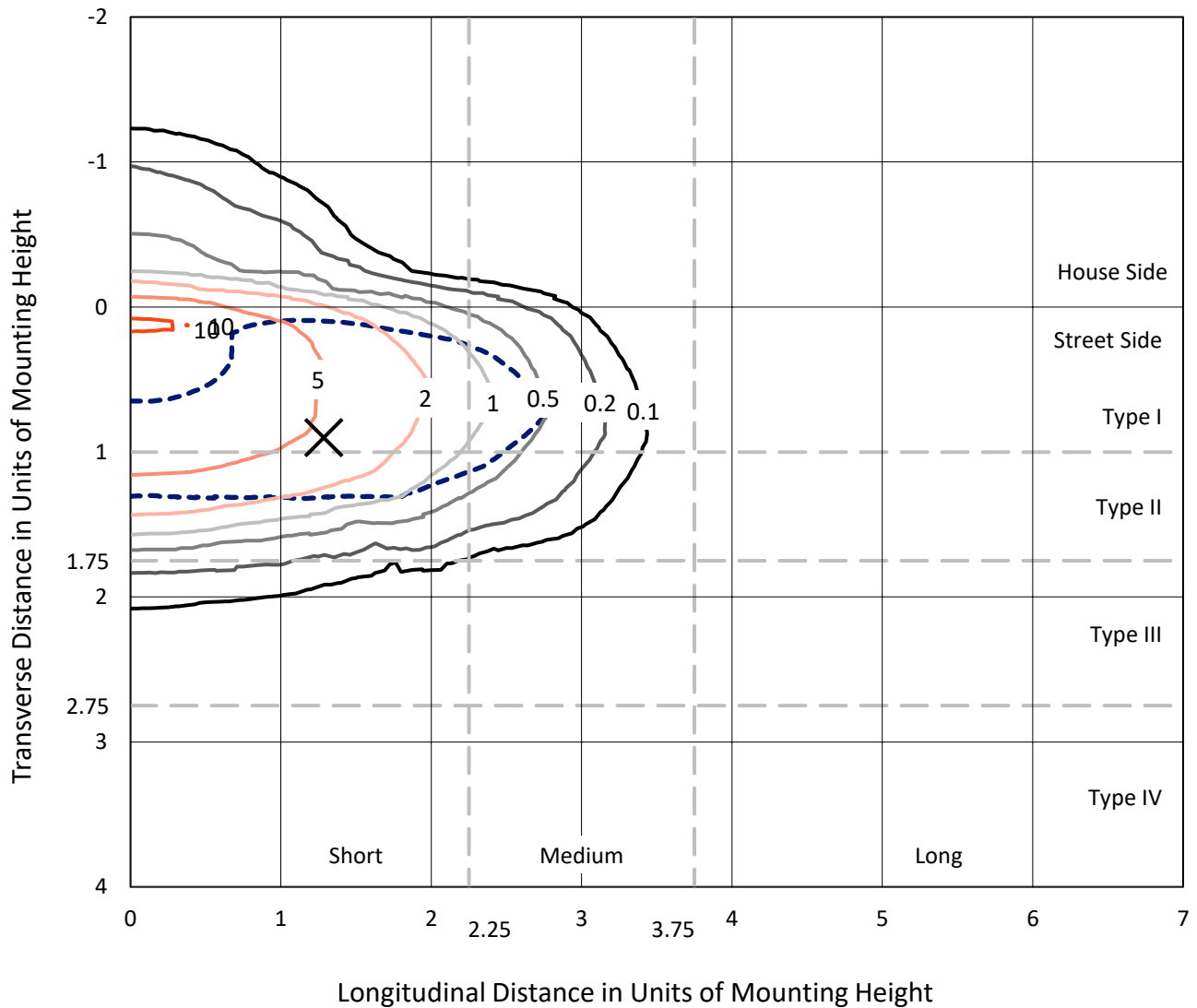
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

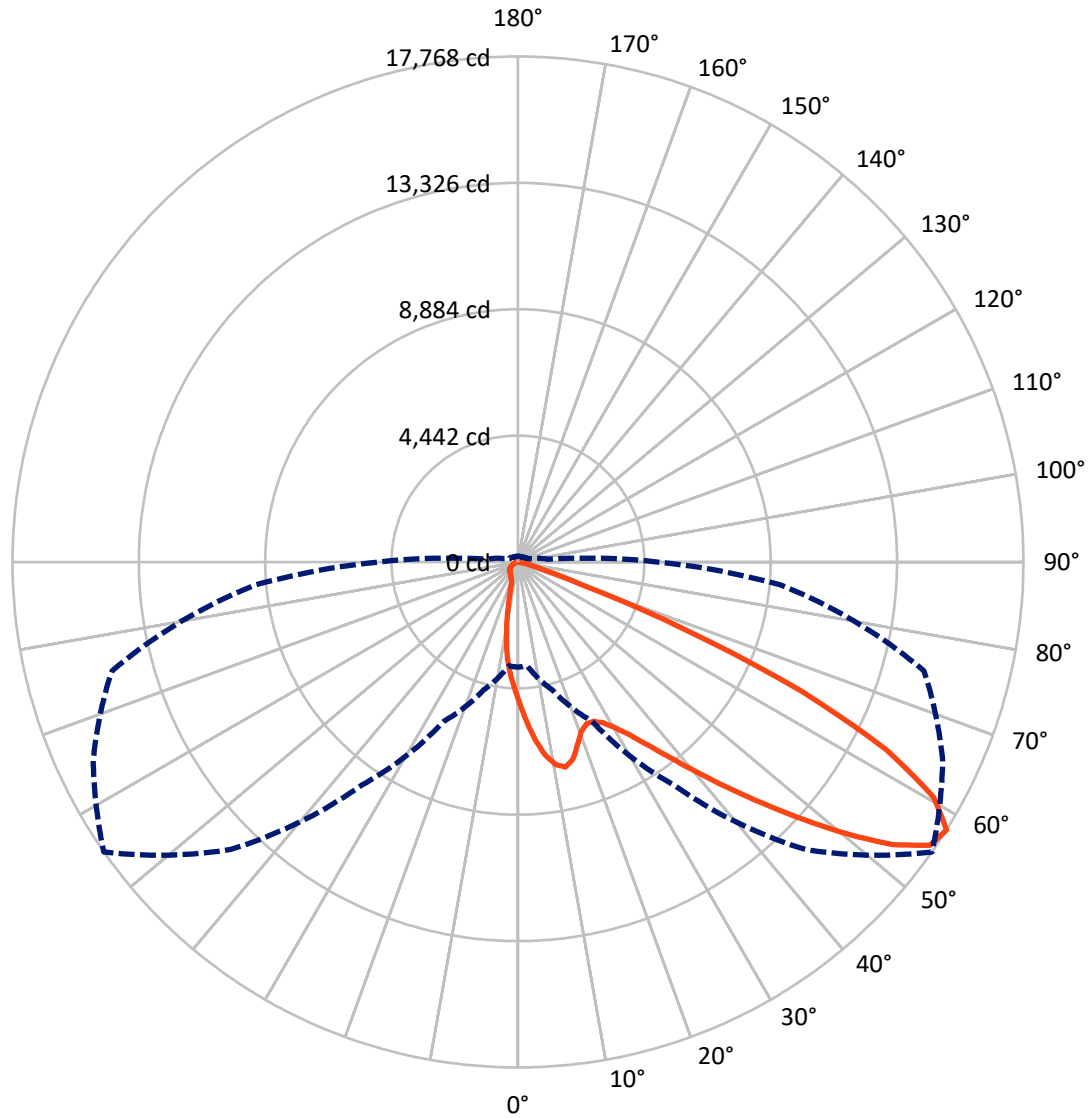
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	1589.8	0.0	1589.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	18767.2	0.0	18767.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	20357.0	0.0	20357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.4	2.2
10°-20°	1102.5	5.4
20°-30°	1764.0	8.7
30°-40°	2985.7	14.7
40°-50°	4901.9	24.1
50°-60°	5387.5	26.5
60°-70°	3090.3	15.2
70°-80°	631.4	3.1
80°-90°	37.3	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°	20357.0	100.0
0°-180°	20357.0	100.0

Coefficient of Utilization



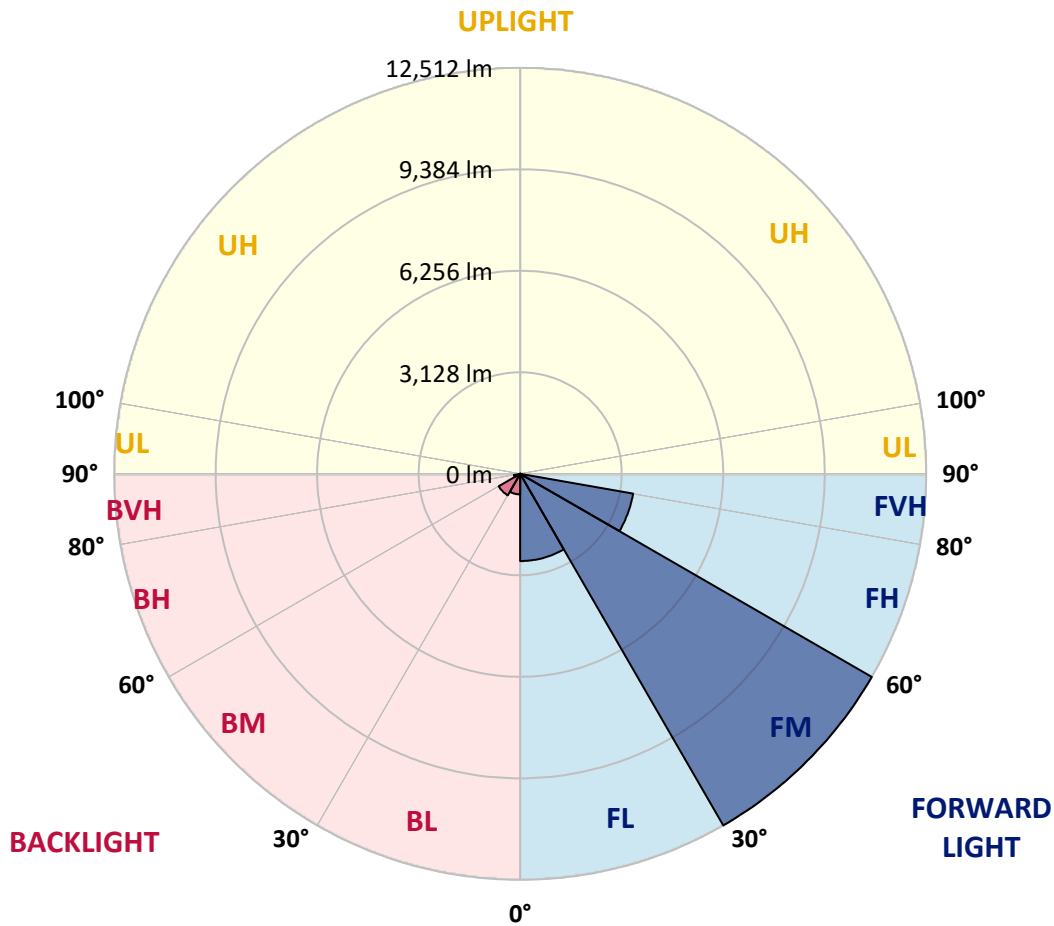
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2688.3	13.2			
FM (30°-60°)	12511.6	61.5			
FH (60°-80°)	3532.6	17.4			G2/5000
FVH (80°-90°)	34.7	0.2			G1/100
BL (0°-30°)	634.7	3.1	B2/1000		
BM (30°-60°)	763.5	3.8	B1/1000		
BH (60°-80°)	189.1	0.9	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5
2.5°	6086.7	6010.2	5998.9	5983.8	5838.2	5729.0	5570.8	5397.6	5203.0	5004.7
5°	7031.9	6971.7	6960.4	6890.1	6724.4	6538.6	6257.4	5902.2	5539.4	5112.7
7.5°	7215.2	7203.9	7255.4	7252.9	7230.3	7083.4	6846.2	6423.1	5878.4	5245.7
10°	6398.0	6426.9	6580.0	6714.4	7077.1	7288.0	7236.5	6887.6	6227.3	5397.6
12.5°	5653.7	5619.8	5729.0	5880.9	6302.6	6930.3	7398.5	7275.5	6626.5	5569.6
15°	5186.7	5172.9	5234.4	5304.7	5626.1	6258.7	7210.2	7590.5	7010.6	5772.9
17.5°	5037.3	5026.0	5044.9	5062.4	5270.8	5760.4	6762.1	7783.8	7378.4	6005.1
20°	5159.1	5144.0	5141.5	5127.7	5214.3	5548.2	6356.6	7797.6	7708.5	6216.0
22.5°	5514.3	5496.8	5435.3	5380.0	5387.6	5577.1	6175.9	7659.6	7957.1	6413.1
25°	6158.3	6129.4	6001.4	5815.6	5697.6	5777.9	6203.5	7477.6	8194.3	6567.5
27.5°	6964.2	6926.5	6762.1	6485.9	6216.0	6118.1	6403.1	7352.0	8391.4	6685.5
30°	7753.7	7704.8	7542.8	7328.2	6934.0	6625.2	6763.3	7407.3	8626.1	6808.5
32.5°	8606.0	8559.6	8344.9	8078.8	7752.5	7337.0	7256.6	7677.1	8913.6	6980.5
35°	9684.3	9611.5	9306.5	8943.7	8597.2	8176.7	7924.4	8142.8	9296.4	7242.8
37.5°	10911.9	10814.0	10485.1	9984.3	9532.4	9061.7	8737.8	8783.0	9857.5	7594.3
40°	12069.3	11980.2	11676.4	11204.4	10637.0	10065.9	9720.7	9620.3	10632.0	8022.3
42.5°	12763.4	12683.1	12555.1	12355.5	11877.2	11294.8	10859.2	10642.0	11548.3	8534.5
45°	12802.3	12732.0	12904.0	13136.2	13042.1	12654.2	12123.2	11725.3	12468.4	9015.2
47.5°	12179.7	12132.0	12654.2	13465.1	13869.3	14032.5	13542.9	12718.2	13227.9	9360.4
50°	10482.6	10465.1	11539.6	13028.3	14184.4	15240.0	15040.5	13642.1	13816.6	9538.7
52.5°	9089.3	9025.3	9651.7	11629.9	13726.2	15875.2	16504.1	14548.4	14228.3	9572.6
55°	6893.9	6837.4	7623.2	9290.1	12248.8	15649.3	17574.8	15483.6	14523.3	9486.0
57.5°	3698.0	3662.8	4655.7	6183.4	9575.1	14293.6	17768.1	16472.7	14771.8	9256.2
60°	1439.8	1433.5	1805.1	3000.1	5819.4	11628.7	16792.8	17066.4	14927.5	8973.8
62.5°	871.1	890.0	950.2	1346.9	2570.8	7224.0	14544.6	16391.1	15031.7	8715.2
65°	720.5	721.8	729.3	925.1	1231.4	3022.7	10949.6	14169.3	14774.3	8254.6
67.5°	617.6	628.9	657.8	734.3	868.6	1325.5	6303.9	10975.9	13209.0	7182.6
70°	487.0	502.1	538.5	603.8	670.3	829.7	2329.8	7303.1	10091.0	5413.9
72.5°	410.5	409.2	428.0	490.8	532.2	583.7	896.3	4092.1	5864.5	2584.6
75°	317.6	330.1	354.0	410.5	435.6	423.0	485.8	1495.0	2101.3	783.3
77.5°	248.5	258.6	279.9	335.2	360.3	300.0	279.9	534.7	675.3	281.2
80°	111.7	120.5	190.8	247.3	293.7	207.1	151.9	273.6	300.0	128.0
82.5°	20.1	33.9	111.7	130.5	150.6	134.3	79.1	141.8	146.9	51.5
85°	1.3	2.5	38.9	47.7	60.3	43.9	23.8	56.5	49.0	17.6
87.5°	0.0	0.0	0.0	1.3	1.3	6.3	7.5	10.0	7.5	6.3
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°
4905.5	0°	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5	4905.5
4916.8	2.5°	4826.5	4648.2	4475.0	4333.1	4250.3	4109.7	4016.8	4001.8	3962.8	3996.7
4929.4	5°	4733.6	4414.7	4092.1	3803.4	3566.2	3259.9	3031.4	2934.8	2850.7	2879.6
4962.0	7.5°	4689.6	4186.3	3684.2	3190.9	2683.7	2194.2	1830.2	1678.3	1562.8	1579.1
4998.4	10°	4630.6	3949.0	3162.0	2408.8	1729.7	1246.5	995.4	902.5	851.1	852.3
5052.4	12.5°	4585.4	3665.3	2555.7	1633.1	1053.2	795.8	718.0	695.4	680.3	681.6
5134.0	15°	4562.9	3331.4	1956.9	1088.3	753.2	674.1	655.2	645.2	635.2	633.9
5224.4	17.5°	4525.2	2959.9	1432.2	794.6	659.0	631.4	615.1	603.8	591.2	588.7
5302.2	20°	4468.7	2538.1	1046.9	671.6	617.6	596.2	573.7	558.6	543.5	541.0
5351.2	22.5°	4364.5	2092.5	804.6	621.4	587.5	563.6	536.0	518.4	503.4	500.8
5327.3	25°	4171.2	1674.5	677.8	590.0	561.1	532.2	502.1	478.3	464.4	461.9
5275.8	27.5°	3926.4	1315.5	615.1	561.1	527.2	500.8	467.0	444.4	431.8	429.3
5208.1	30°	3637.7	1013.0	578.7	528.5	487.0	464.4	434.3	415.5	408.0	408.0
5160.4	32.5°	3326.4	809.6	563.6	495.8	451.9	426.8	402.9	395.4	392.9	391.6
5186.7	35°	3034.0	702.9	556.1	469.5	420.5	396.7	386.6	387.9	392.9	392.9
5268.3	37.5°	2774.1	669.1	552.3	450.6	392.9	371.6	377.8	389.1	384.1	384.1
5411.4	40°	2539.4	672.8	549.8	436.8	370.3	357.7	370.3	361.5	349.0	347.7
5585.9	42.5°	2359.9	704.2	544.8	425.5	356.5	347.7	342.7	328.9	327.6	330.1
5766.6	45°	2229.3	731.8	543.5	420.5	341.4	325.1	318.8	305.0	330.1	336.4
5840.7	47.5°	2074.9	731.8	543.5	402.9	316.3	310.0	300.0	284.9	310.0	316.3
5770.4	50°	1875.4	685.4	522.2	382.9	296.2	292.5	274.9	256.1	251.1	254.8
5606.0	52.5°	1623.0	601.3	468.2	355.2	276.2	268.6	247.3	233.5	229.7	229.7
5311.0	55°	1335.6	503.4	395.4	315.1	254.8	241.0	225.9	219.7	215.9	213.4
4898.0	57.5°	1085.8	413.0	317.6	279.9	234.7	217.2	212.1	204.6	198.3	194.6
4552.8	60°	891.2	325.1	262.3	248.5	214.6	198.3	197.1	187.0	170.7	168.2
4267.9	62.5°	687.9	238.5	220.9	215.9	194.6	180.8	178.2	158.2	133.1	128.0
3863.7	65°	485.8	185.8	178.2	189.5	173.2	160.7	154.4	124.3	97.9	94.1
3233.5	67.5°	341.4	155.7	140.6	165.7	150.6	134.3	130.5	105.4	81.6	79.1
2445.2	70°	243.5	126.8	115.5	141.8	120.5	118.0	110.5	87.9	66.5	64.0
1210.1	72.5°	172.0	96.7	89.1	123.0	82.8	101.7	90.4	67.8	50.2	47.7
411.7	75°	126.8	69.0	62.8	71.5	60.3	76.6	64.0	45.2	31.4	30.1
185.8	77.5°	92.9	43.9	37.7	35.1	35.1	47.7	35.1	18.8	13.8	12.6
94.1	80°	65.3	20.1	17.6	15.1	13.8	11.3	5.0	2.5	1.3	1.3
32.6	82.5°	38.9	8.8	8.8	6.3	3.8	0.0	0.0	0.0	0.0	0.0
12.6	85°	8.8	3.8	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
5.0	87.5°	1.3	1.3	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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