

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: P950145

Luminaire Tested: **GALN-SB4C-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950145
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-SB4C-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 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: 18544 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

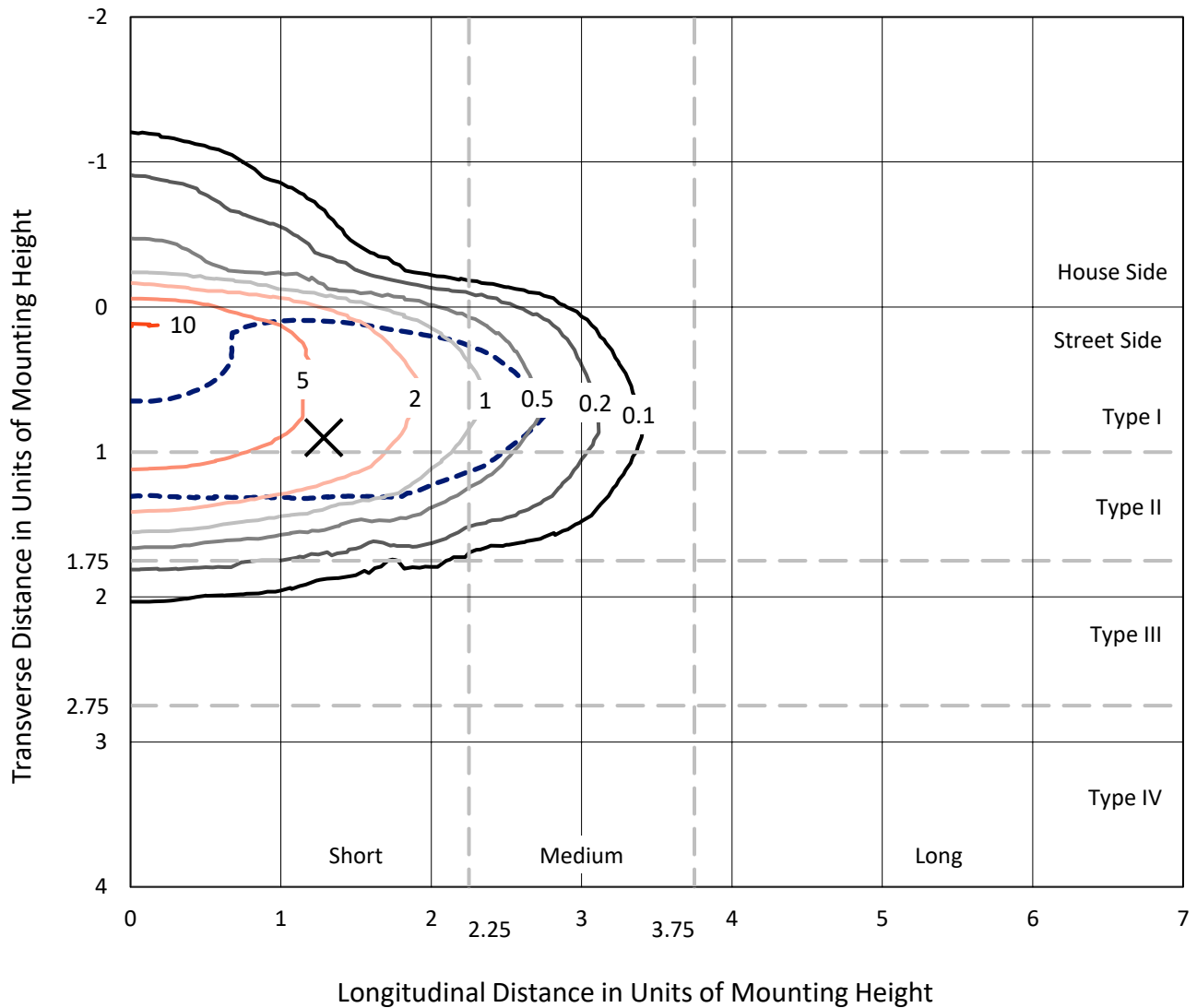
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

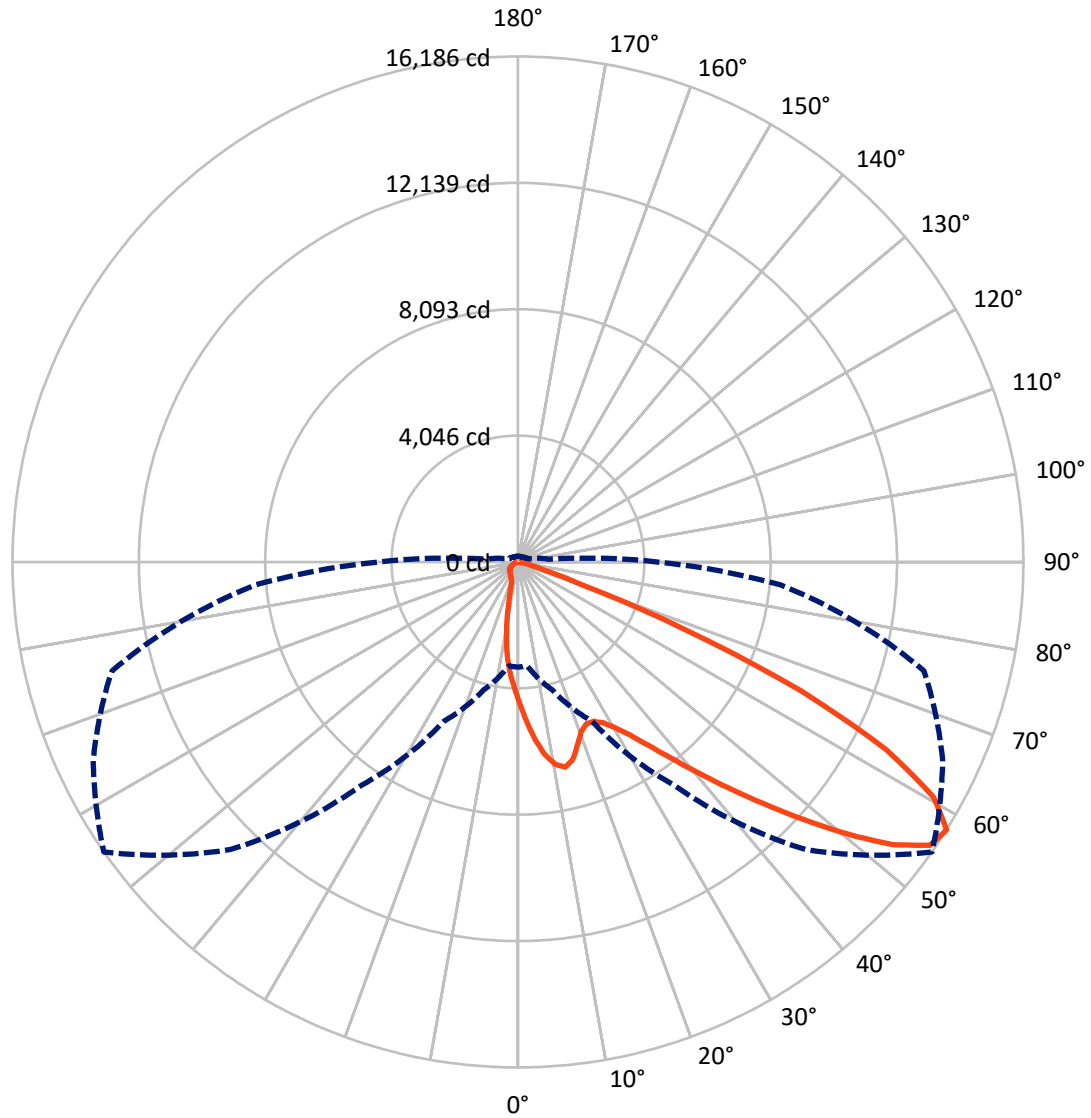
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	1448.2	0.0	1448.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	17095.8	0.0	17095.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	18544.0	0.0	18544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.8	2.2
10°-20°	1004.3	5.4
20°-30°	1606.9	8.7
30°-40°	2719.8	14.7
40°-50°	4465.3	24.1
50°-60°	4907.7	26.5
60°-70°	2815.1	15.2
70°-80°	575.2	3.1
80°-90°	33.9	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°	18544.0	100.0
0°-180°	18544.0	100.0

Coefficient of Utilization



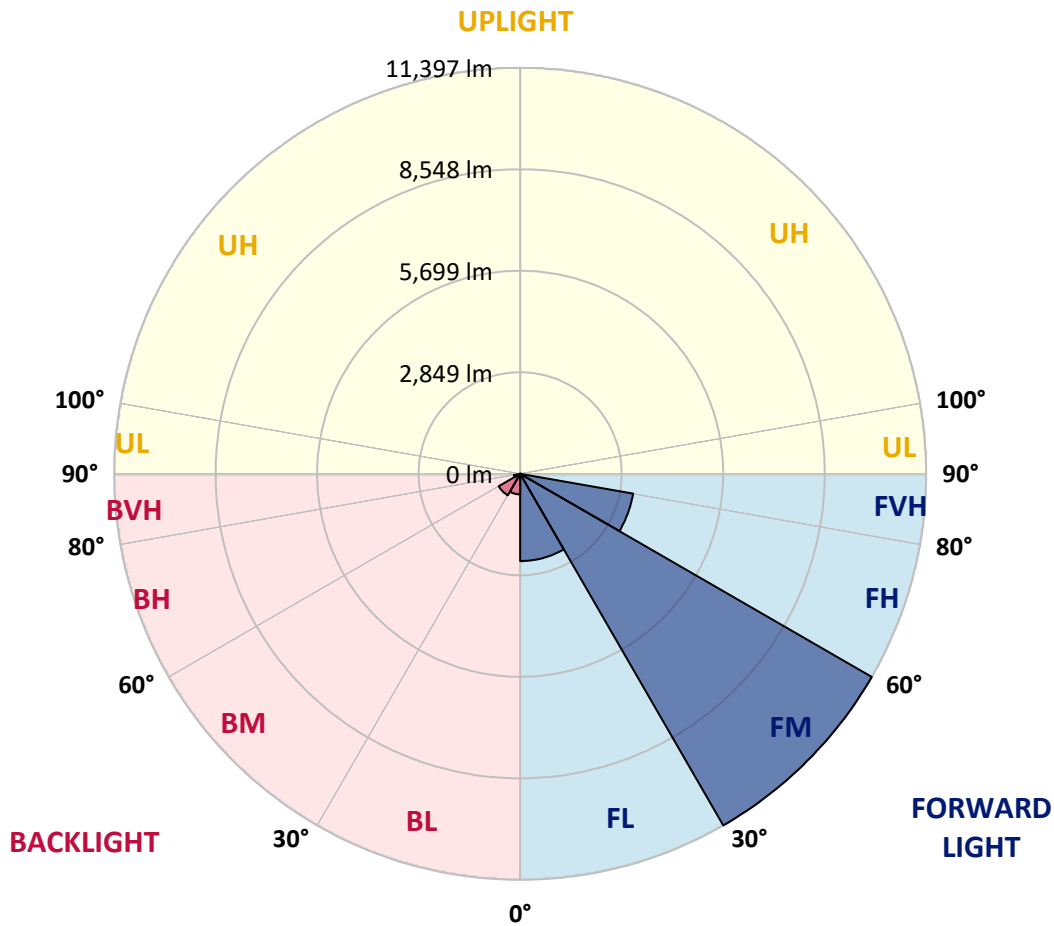
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2448.8	13.2			
FM (30°-60°)	11397.3	61.5			
FH (60°-80°)	3218.0	17.4			G2/5000
FVH (80°-90°)	31.6	0.2			G1/100
BL (0°-30°)	578.2	3.1	B2/1000		
BM (30°-60°)	695.5	3.8	B1/1000		
BH (60°-80°)	172.2	0.9	B1/500		G1/500
BVH (80°-90°)	2.3	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°	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6
2.5°	5544.6	5474.9	5464.6	5450.9	5318.2	5218.8	5074.7	4916.9	4739.6	4559.0
5°	6405.7	6350.8	6340.5	6276.5	6125.5	5956.3	5700.2	5376.6	5046.1	4657.3
7.5°	6572.6	6562.3	6609.2	6606.9	6586.3	6452.6	6236.4	5851.1	5354.8	4778.5
10°	5828.2	5854.5	5994.0	6116.4	6446.8	6638.9	6592.1	6274.2	5672.7	4916.9
12.5°	5150.1	5119.3	5218.8	5357.1	5741.3	6313.1	6739.6	6627.5	6036.3	5073.5
15°	4724.8	4712.2	4768.2	4832.3	5125.0	5701.3	6568.0	6914.5	6386.2	5258.8
17.5°	4588.7	4578.4	4595.6	4611.6	4801.4	5247.3	6159.8	7090.6	6721.3	5470.3
20°	4699.6	4685.9	4683.6	4671.0	4749.9	5054.1	5790.5	7103.2	7022.0	5662.4
22.5°	5023.2	5007.2	4951.2	4900.9	4907.7	5080.4	5625.8	6977.4	7248.4	5841.9
25°	5609.8	5583.5	5466.9	5297.7	5190.2	5263.4	5651.0	6811.6	7464.5	5982.6
27.5°	6343.9	6309.6	6159.8	5908.3	5662.4	5573.2	5832.8	6697.3	7644.0	6090.1
30°	7063.2	7018.6	6871.1	6675.5	6316.5	6035.2	6161.0	6747.6	7857.9	6202.1
32.5°	7839.6	7797.3	7601.7	7359.3	7062.0	6683.5	6610.4	6993.4	8119.7	6358.8
35°	8821.8	8755.5	8477.6	8147.2	7831.6	7448.5	7218.7	7417.6	8468.5	6597.8
37.5°	9940.1	9850.9	9551.3	9095.1	8683.4	8254.6	7959.6	8000.8	8979.6	6917.9
40°	10994.4	10913.2	10636.5	10206.5	9689.7	9169.4	8855.0	8763.5	9685.1	7307.9
42.5°	11626.7	11553.5	11436.9	11255.1	10819.4	10288.9	9892.1	9694.3	10519.8	7774.4
45°	11662.2	11598.1	11754.8	11966.3	11880.6	11527.2	11043.5	10681.1	11358.0	8212.3
47.5°	11095.0	11051.6	11527.2	12265.9	12634.1	12782.8	12336.8	11585.6	12049.8	8526.8
50°	9549.0	9533.0	10511.8	11868.0	12921.1	13882.8	13701.0	12427.1	12586.1	8689.2
52.5°	8279.8	8221.5	8792.1	10594.2	12503.7	14461.4	15034.2	13252.7	12961.1	8720.0
55°	6279.9	6228.4	6944.2	8462.8	11157.9	14255.5	16009.6	14104.6	13229.8	8641.1
57.5°	3368.6	3336.6	4241.1	5632.7	8722.3	13020.6	16185.7	15005.6	13456.3	8431.9
60°	1311.6	1305.8	1644.3	2732.9	5301.1	10593.0	15297.2	15546.5	13598.0	8174.6
62.5°	793.6	810.7	865.6	1226.9	2341.8	6580.6	13249.3	14931.3	13692.9	7939.1
65°	656.3	657.5	664.4	842.7	1121.7	2753.5	9974.4	12907.4	13458.5	7519.4
67.5°	562.6	572.9	599.2	668.9	791.3	1207.5	5742.5	9998.4	12032.6	6542.9
70°	443.7	457.4	490.5	550.0	610.6	755.8	2122.3	6652.7	9192.3	4931.7
72.5°	373.9	372.8	389.9	447.1	484.8	531.7	816.4	3727.7	5342.3	2354.4
75°	289.3	300.7	322.5	373.9	396.8	385.3	442.5	1361.9	1914.2	713.5
77.5°	226.4	235.6	255.0	305.3	328.2	273.3	255.0	487.1	615.2	256.1
80°	101.8	109.8	173.8	225.3	267.6	188.7	138.4	249.3	273.3	116.6
82.5°	18.3	30.9	101.8	118.9	137.2	122.4	72.0	129.2	133.8	46.9
85°	1.1	2.3	35.4	43.5	54.9	40.0	21.7	51.5	44.6	16.0
87.5°	0.0	0.0	0.0	1.1	1.1	5.7	6.9	9.1	6.9	5.7
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°
4468.6	0°	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6
4478.9	2.5°	4396.6	4234.2	4076.4	3947.2	3871.8	3743.7	3659.1	3645.4	3609.9	3640.8
4490.4	5°	4312.0	4021.6	3727.7	3464.7	3248.6	2969.6	2761.5	2673.4	2596.8	2623.1
4520.1	7.5°	4272.0	3813.4	3356.1	2906.7	2444.7	1998.8	1667.2	1528.8	1423.6	1438.5
4553.3	10°	4218.2	3597.3	2880.4	2194.3	1575.7	1135.5	906.8	822.1	775.3	776.4
4602.4	12.5°	4177.1	3338.9	2328.1	1487.6	959.4	725.0	654.1	633.5	619.8	620.9
4676.8	15°	4156.5	3034.7	1782.7	991.4	686.1	614.0	596.9	587.7	578.6	577.4
4759.1	17.5°	4122.2	2696.3	1304.7	723.8	600.3	575.2	560.3	550.0	538.6	536.3
4830.0	20°	4070.7	2312.1	953.6	611.8	562.6	543.1	522.6	508.8	495.1	492.8
4874.6	22.5°	3975.8	1906.2	733.0	566.0	535.1	513.4	488.3	472.2	458.5	456.2
4852.8	25°	3799.7	1525.4	617.5	537.4	511.1	484.8	457.4	435.7	423.1	420.8
4806.0	27.5°	3576.7	1198.3	560.3	511.1	480.3	456.2	425.4	404.8	393.4	391.1
4744.2	30°	3313.8	922.8	527.1	481.4	443.7	423.1	395.6	378.5	371.6	371.6
4700.8	32.5°	3030.2	737.5	513.4	451.7	411.6	388.8	367.1	360.2	357.9	356.8
4724.8	35°	2763.7	640.3	506.6	427.7	383.1	361.3	352.2	353.3	357.9	357.9
4799.1	37.5°	2527.0	609.5	503.1	410.5	357.9	338.5	344.2	354.5	349.9	349.9
4929.5	40°	2313.2	612.9	500.8	397.9	337.3	325.9	337.3	329.3	317.9	316.7
5088.4	42.5°	2149.7	641.5	496.3	387.6	324.7	316.7	312.2	299.6	298.4	300.7
5253.1	45°	2030.8	666.6	495.1	383.1	311.0	296.2	290.4	277.9	300.7	306.4
5320.5	47.5°	1890.1	666.6	495.1	367.1	288.2	282.4	273.3	259.6	282.4	288.2
5256.5	50°	1708.3	624.3	475.7	348.8	269.9	266.4	250.4	233.3	228.7	232.1
5106.7	52.5°	1478.5	547.7	426.5	323.6	251.6	244.7	225.3	212.7	209.3	209.3
4838.0	55°	1216.6	458.5	360.2	287.0	232.1	219.5	205.8	200.1	196.7	194.4
4461.8	57.5°	989.1	376.2	289.3	255.0	213.8	197.8	193.2	186.4	180.7	177.2
4147.3	60°	811.9	296.2	239.0	226.4	195.5	180.7	179.5	170.4	155.5	153.2
3887.8	62.5°	626.6	217.3	201.2	196.7	177.2	164.7	162.4	144.1	121.2	116.6
3519.6	65°	442.5	169.2	162.4	172.7	157.8	146.4	140.6	113.2	89.2	85.8
2945.6	67.5°	311.0	141.8	128.1	150.9	137.2	122.4	118.9	96.1	74.3	72.0
2227.5	70°	221.8	115.5	105.2	129.2	109.8	107.5	100.6	80.0	60.6	58.3
1102.3	72.5°	156.7	88.0	81.2	112.1	75.5	92.6	82.3	61.7	45.7	43.5
375.1	75°	115.5	62.9	57.2	65.2	54.9	69.8	58.3	41.2	28.6	27.4
169.2	77.5°	84.6	40.0	34.3	32.0	32.0	43.5	32.0	17.2	12.6	11.4
85.8	80°	59.5	18.3	16.0	13.7	12.6	10.3	4.6	2.3	1.1	1.1
29.7	82.5°	35.4	8.0	8.0	5.7	3.4	0.0	0.0	0.0	0.0	0.0
11.4	85°	8.0	3.4	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
4.6	87.5°	1.1	1.1	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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