

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: P950985

Luminaire Tested: **GALN-SB5B-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950985
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-SB5B-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 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: 25659 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

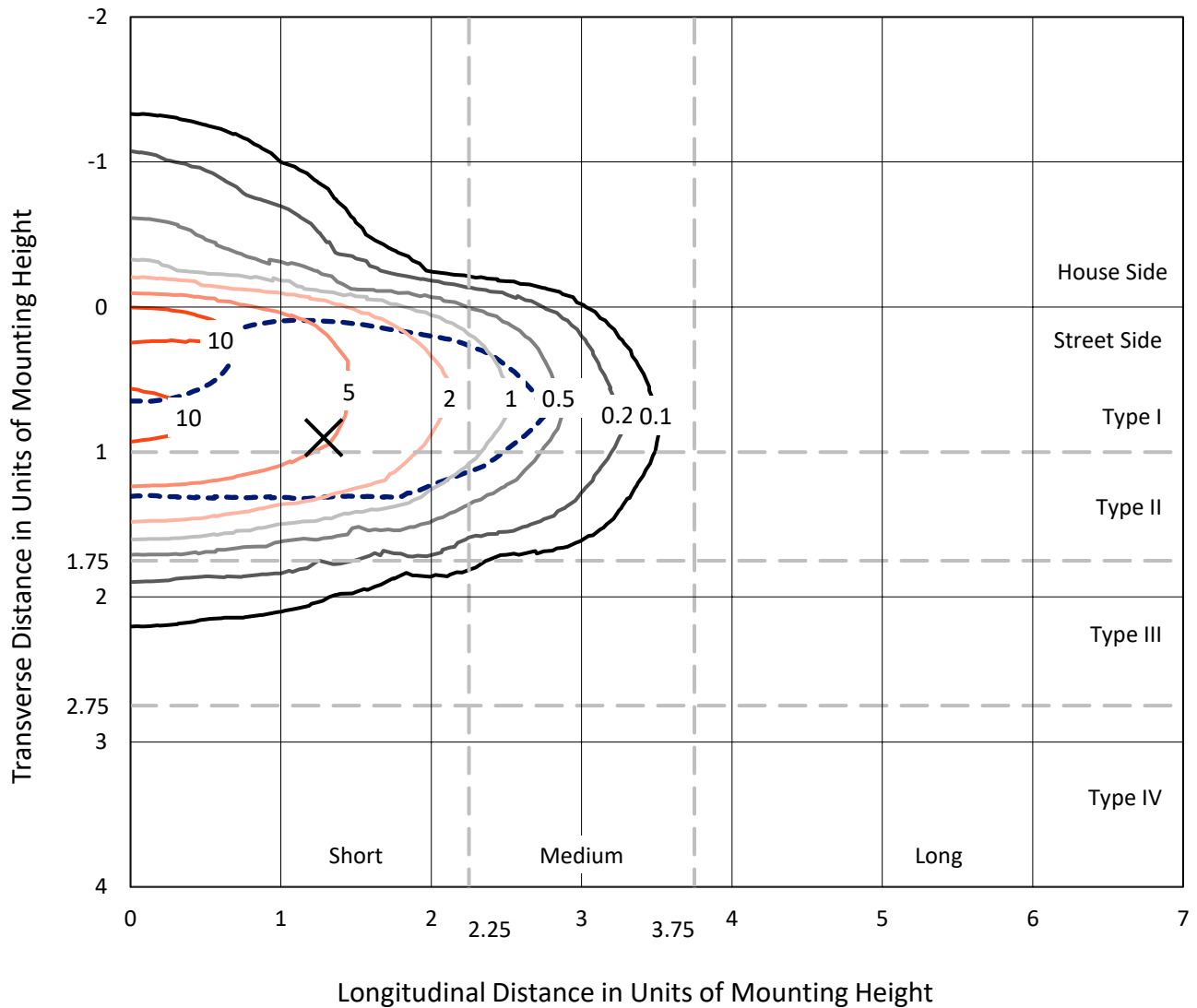
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

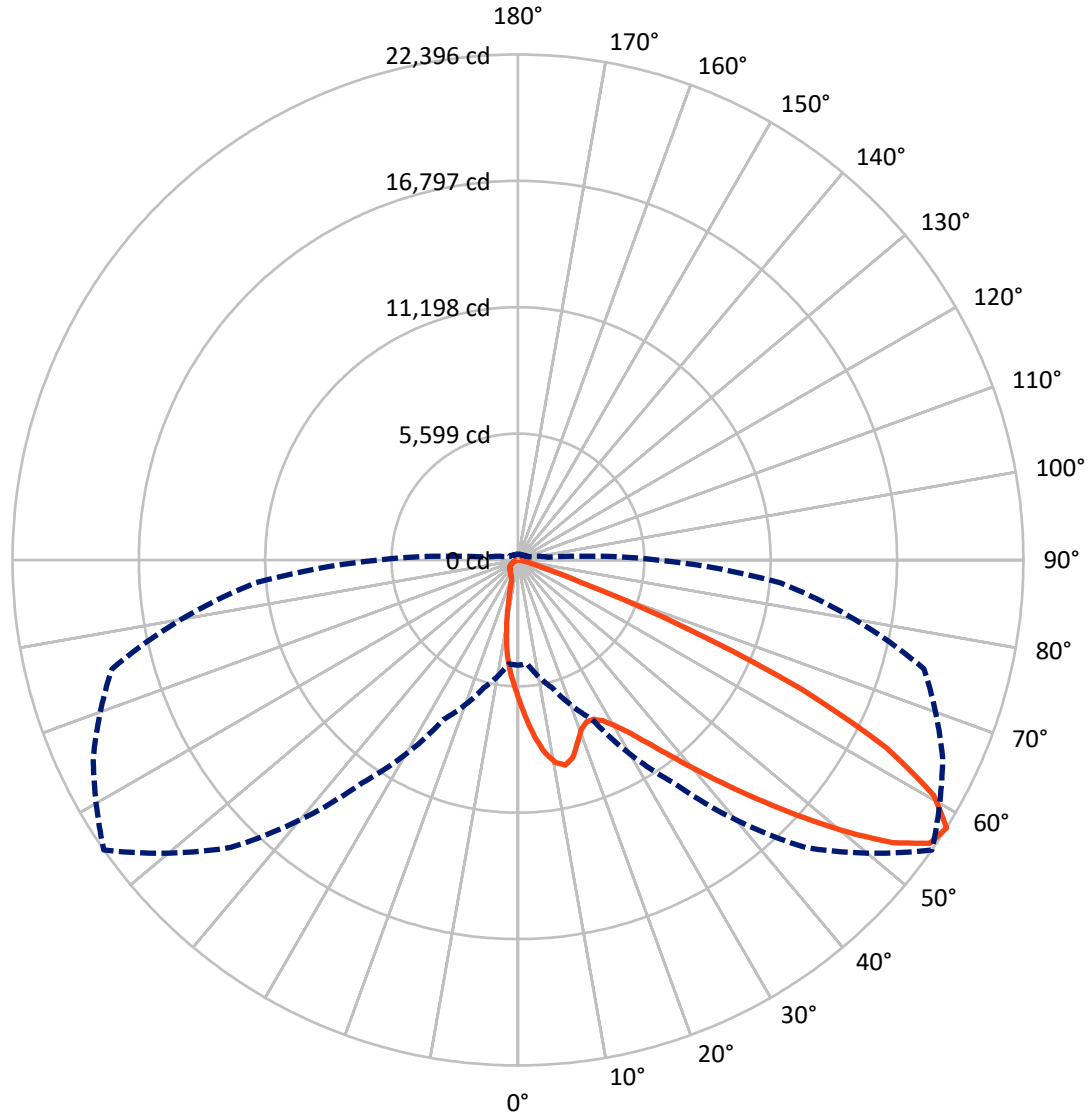
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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	2003.9	0.0	2003.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	23655.1	0.0	23655.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	25659.0	0.0	25659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.3	2.2
10°-20°	1389.7	5.4
20°-30°	2223.4	8.7
30°-40°	3763.3	14.7
40°-50°	6178.6	24.1
50°-60°	6790.7	26.5
60°-70°	3895.1	15.2
70°-80°	795.9	3.1
80°-90°	46.9	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°	25659.0	100.0
0°-180°	25659.0	100.0

Coefficient of Utilization



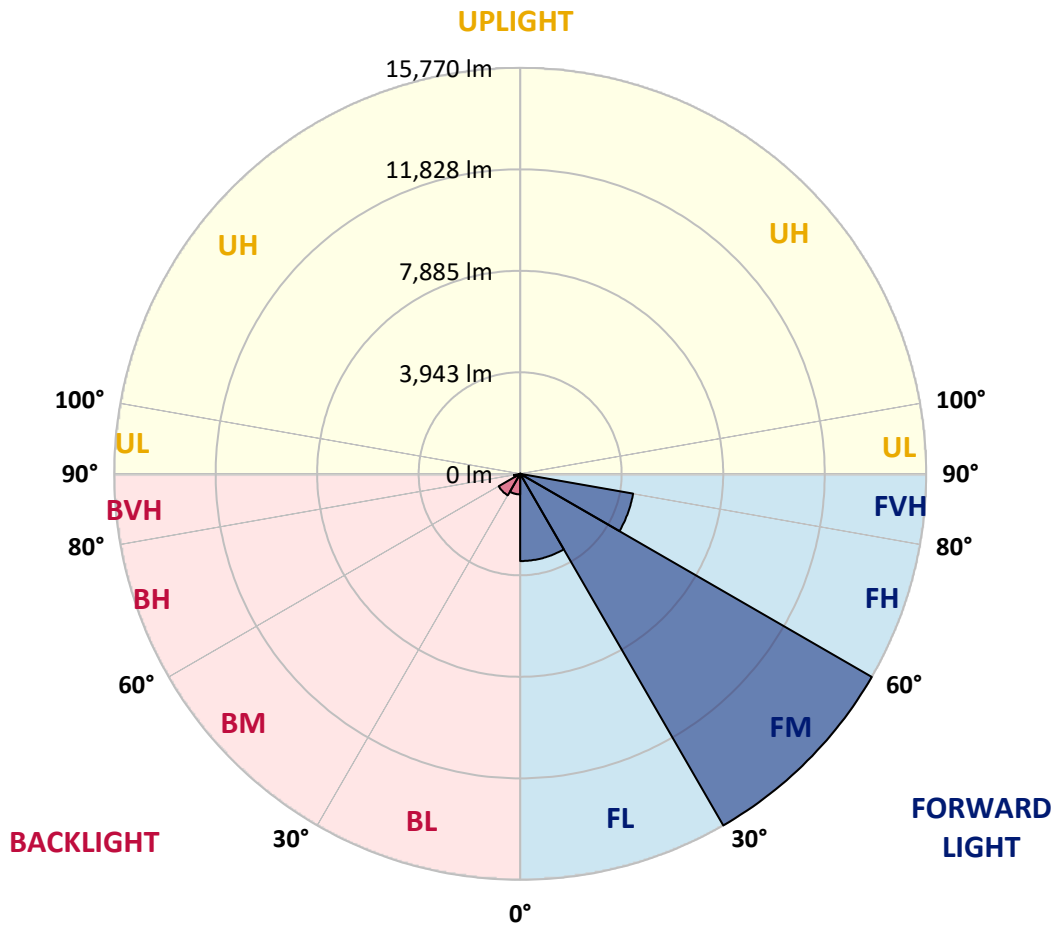
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3388.4	13.2			
FM (30°-60°)	15770.2	61.5			
FH (60°-80°)	4452.7	17.4			G2/5000
FVH (80°-90°)	43.8	0.2			G1/100
BL (0°-30°)	800.0	3.1	B2/1000		
BM (30°-60°)	962.4	3.8	B1/1000		
BH (60°-80°)	238.3	0.9	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6183.2	6183.2	6183.2	6183.2	6183.2	6183.2	6183.2	6183.2	6183.2	6183.2
2.5°	7672.0	7575.5	7561.3	7542.3	7358.8	7221.1	7021.7	6803.4	6558.2	6308.2
5°	8863.4	8787.5	8773.2	8684.6	8475.8	8241.6	7887.2	7439.4	6982.2	6444.2
7.5°	9094.4	9080.2	9145.0	9141.9	9113.4	8928.3	8629.2	8096.1	7409.4	6612.0
10°	8064.4	8100.8	8293.8	8463.1	8920.4	9186.2	9121.3	8681.5	7849.2	6803.4
12.5°	7126.2	7083.5	7221.1	7412.5	7944.2	8735.3	9325.4	9170.4	8352.4	7020.2
15°	6537.6	6520.2	6597.7	6686.3	7091.4	7888.8	9088.1	9567.5	8836.5	7276.5
17.5°	6349.3	6335.1	6358.8	6381.0	6643.6	7260.7	8523.2	9811.1	9300.1	7569.2
20°	6502.8	6483.8	6480.6	6463.2	6572.4	6993.3	8012.2	9828.5	9716.2	7835.0
22.5°	6950.5	6928.4	6850.9	6781.3	6790.7	7029.7	7784.4	9654.5	10029.5	8083.4
25°	7762.2	7725.8	7564.4	7330.3	7181.5	7282.8	7819.2	9425.1	10328.5	8278.0
27.5°	8778.0	8730.5	8523.2	8175.2	7835.0	7711.6	8070.7	9266.9	10576.9	8426.7
30°	9773.2	9711.5	9507.4	9236.8	8740.0	8350.8	8524.8	9336.5	10872.8	8581.8
32.5°	10847.5	10788.9	10518.4	10183.0	9771.6	9247.9	9146.6	9676.7	11235.1	8798.5
35°	12206.6	12114.8	11730.3	11273.1	10836.4	10306.4	9988.3	10263.6	11717.7	9129.2
37.5°	13754.0	13630.5	13216.0	12584.7	12015.1	11421.8	11013.6	11070.6	12424.9	9572.2
40°	15212.7	15100.4	14717.5	14122.6	13407.5	12687.6	12252.5	12125.9	13401.1	10111.8
42.5°	16087.7	15986.4	15825.0	15573.5	14970.7	14236.5	13687.5	13413.8	14556.1	10757.3
45°	16136.7	16048.1	16264.9	16557.6	16438.9	15950.0	15280.8	14779.2	15715.9	11363.3
47.5°	15352.0	15291.8	15950.0	16972.1	17481.6	17687.3	17070.2	16030.7	16673.1	11798.4
50°	13212.8	13190.7	14545.0	16421.5	17878.7	19209.3	18957.8	17195.2	17415.1	12023.0
52.5°	11456.6	11375.9	12165.4	14659.0	17301.2	20009.9	20802.6	18337.5	17934.1	12065.8
55°	8689.4	8618.2	9608.6	11709.8	15439.0	19725.1	22152.2	19516.3	18305.9	11956.6
57.5°	4661.1	4616.8	5868.3	7793.9	12068.9	18016.4	22395.9	20763.0	18619.2	11667.0
60°	1814.8	1806.9	2275.2	3781.4	7335.0	14657.4	21166.5	21511.4	18815.4	11311.1
62.5°	1098.0	1121.8	1197.7	1697.7	3240.3	9105.5	18332.8	20660.2	18946.7	10985.1
65°	908.2	909.8	919.3	1166.1	1552.1	3809.9	13801.4	17859.7	18622.3	10404.5
67.5°	778.4	792.7	829.1	925.6	1094.9	1670.8	7945.7	13834.6	16649.4	9053.3
70°	613.9	632.9	678.8	761.0	844.9	1045.8	2936.5	9205.2	12719.2	6824.0
72.5°	517.4	515.8	539.5	618.6	670.8	735.7	1129.7	5157.9	7392.0	3257.7
75°	400.3	416.1	446.2	517.4	549.0	533.2	612.3	1884.4	2648.6	987.3
77.5°	313.3	325.9	352.8	422.4	454.1	378.1	352.8	674.0	851.2	354.4
80°	140.8	151.9	240.5	311.7	370.2	261.1	191.4	344.9	378.1	161.4
82.5°	25.3	42.7	140.8	164.5	189.9	169.3	99.7	178.8	185.1	64.9
85°	1.6	3.2	49.0	60.1	75.9	55.4	30.1	71.2	61.7	22.2
87.5°	0.0	0.0	0.0	1.6	1.6	7.9	9.5	12.7	9.5	7.9
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°
6183.2	0°	6183.2	6183.2	6183.2	6183.2	6183.2	6183.2	6183.2	6183.2	6183.2	6183.2
6197.4	2.5°	6083.5	5858.8	5640.5	5461.7	5357.3	5180.1	5063.0	5044.0	4995.0	5037.7
6213.2	5°	5966.4	5564.6	5157.9	4794.0	4495.0	4108.9	3821.0	3699.2	3593.1	3629.5
6254.4	7.5°	5911.1	5276.6	4643.7	4021.9	3382.7	2765.7	2306.8	2115.4	1969.8	1990.4
6300.3	10°	5836.7	4977.6	3985.5	3036.2	2180.3	1571.1	1254.7	1137.6	1072.7	1074.3
6368.3	12.5°	5779.7	4620.0	3221.3	2058.4	1327.5	1003.1	905.0	876.5	857.5	859.1
6471.1	15°	5751.2	4199.1	2466.6	1371.8	949.3	849.6	825.9	813.2	800.6	799.0
6585.1	17.5°	5703.8	3730.8	1805.3	1001.5	830.6	795.8	775.3	761.0	745.2	742.0
6683.2	20°	5632.6	3199.2	1319.5	846.5	778.4	751.5	723.1	704.1	685.1	681.9
6744.9	22.5°	5501.3	2637.5	1014.2	783.2	740.5	710.4	675.6	653.4	634.5	631.3
6714.8	25°	5257.6	2110.6	854.4	743.6	707.2	670.8	632.9	602.8	585.4	582.2
6649.9	27.5°	4949.1	1658.1	775.3	707.2	664.5	631.3	588.6	560.1	544.3	541.1
6564.5	30°	4585.2	1276.8	729.4	666.1	613.9	585.4	547.4	523.7	514.2	514.2
6504.4	32.5°	4192.8	1020.5	710.4	625.0	569.6	537.9	507.9	498.4	495.2	493.6
6537.6	35°	3824.1	886.0	700.9	591.7	530.0	500.0	487.3	488.9	495.2	495.2
6640.4	37.5°	3496.6	843.3	696.2	568.0	495.2	468.3	476.2	490.5	484.1	484.1
6820.8	40°	3200.8	848.1	693.0	550.6	466.7	450.9	466.7	455.7	439.8	438.3
7040.7	42.5°	2974.5	887.6	686.7	536.4	449.3	438.3	431.9	414.5	413.0	416.1
7268.6	45°	2810.0	922.4	685.1	530.0	430.4	409.8	401.9	384.5	416.1	424.0
7361.9	47.5°	2615.4	922.4	685.1	507.9	398.7	390.8	378.1	359.2	390.8	398.7
7273.3	50°	2363.8	863.9	658.2	482.6	373.4	368.6	346.5	322.8	316.4	321.2
7066.0	52.5°	2045.8	757.9	590.2	447.8	348.1	338.6	311.7	294.3	289.5	289.5
6694.2	55°	1683.4	634.5	498.4	397.1	321.2	303.8	284.8	276.9	272.1	269.0
6173.7	57.5°	1368.6	520.5	400.3	352.8	295.9	273.7	267.4	257.9	250.0	245.2
5738.6	60°	1123.4	409.8	330.7	313.3	270.6	250.0	248.4	235.7	215.2	212.0
5379.4	62.5°	867.0	300.6	278.5	272.1	245.2	227.8	224.7	199.4	167.7	161.4
4870.0	65°	612.3	234.2	224.7	238.9	218.3	202.5	194.6	156.6	123.4	118.7
4075.7	67.5°	430.4	196.2	177.2	208.8	189.9	169.3	164.5	132.9	102.8	99.7
3082.1	70°	306.9	159.8	145.6	178.8	151.9	148.7	139.2	110.8	83.9	80.7
1525.2	72.5°	216.8	121.8	112.3	155.1	104.4	128.2	113.9	85.4	63.3	60.1
519.0	75°	159.8	87.0	79.1	90.2	75.9	96.5	80.7	57.0	39.6	38.0
234.2	77.5°	117.1	55.4	47.5	44.3	44.3	60.1	44.3	23.7	17.4	15.8
118.7	80°	82.3	25.3	22.2	19.0	17.4	14.2	6.3	3.2	1.6	1.6
41.1	82.5°	49.0	11.1	11.1	7.9	4.7	0.0	0.0	0.0	0.0	0.0
15.8	85°	11.1	4.7	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
6.3	87.5°	1.6	1.6	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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