

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: P949683

Luminaire Tested: **GALN-SB4B-840-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949683
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-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 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: 18405 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

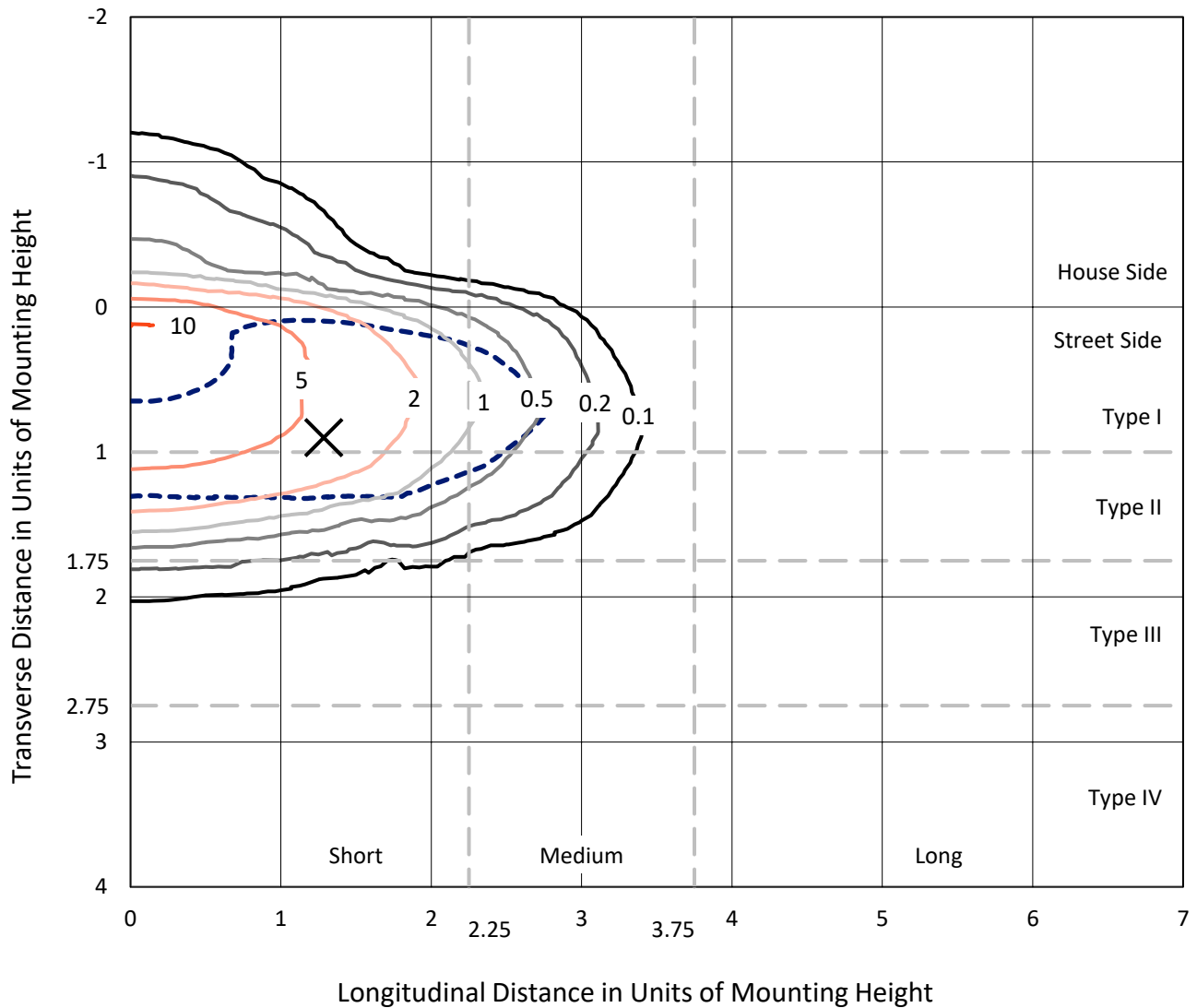
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

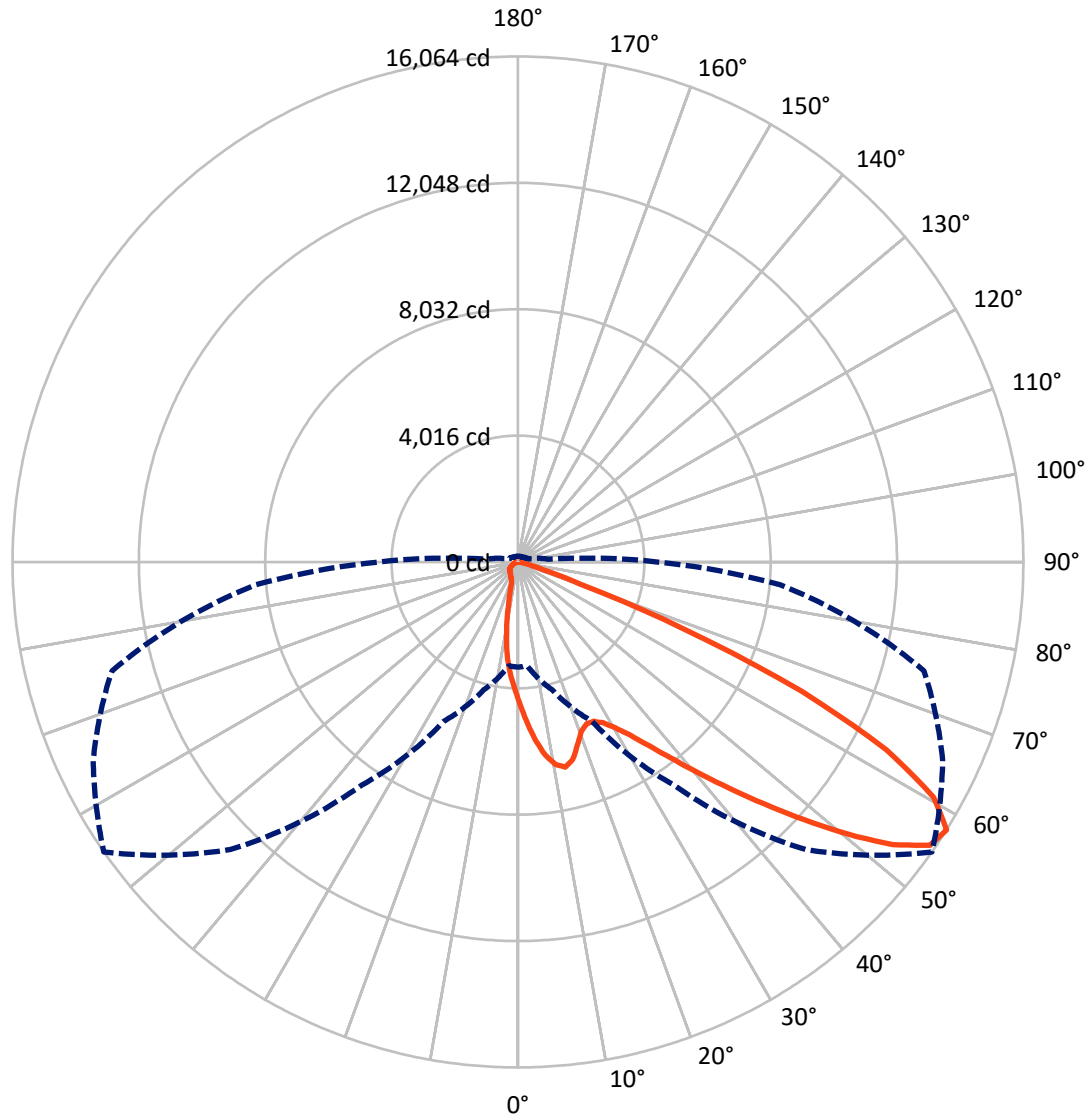
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1437.3	0.0	1437.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	16967.6	0.0	16967.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	18405.0	0.0	18405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.7	2.2
10°-20°	996.8	5.4
20°-30°	1594.9	8.7
30°-40°	2699.4	14.7
40°-50°	4431.8	24.1
50°-60°	4870.9	26.5
60°-70°	2794.0	15.2
70°-80°	570.9	3.1
80°-90°	33.7	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°	18405.0	100.0
0°-180°	18405.0	100.0

Coefficient of Utilization



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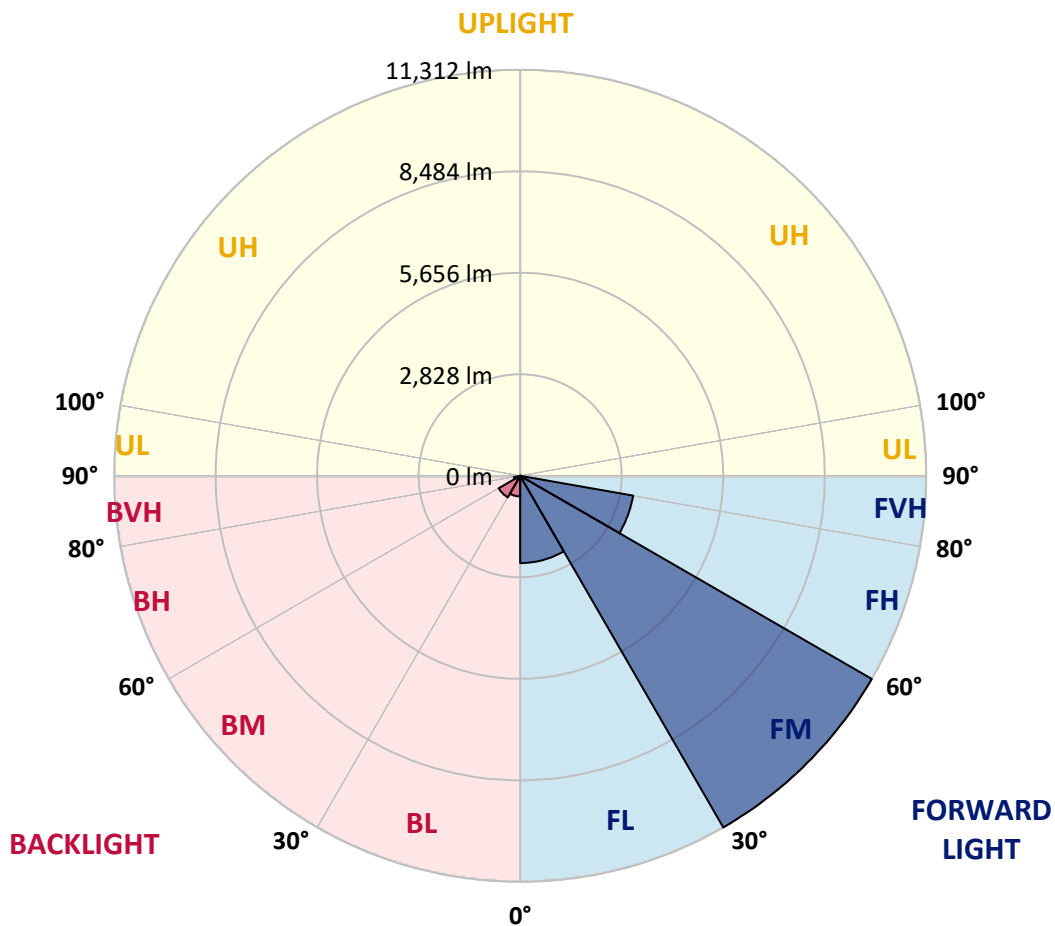
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2430.5	13.2			
FM (30°-60°)	11311.9	61.5			
FH (60°-80°)	3193.9	17.4			G2/5000
FVH (80°-90°)	31.4	0.2			G1/100
BL (0°-30°)	573.8	3.1	B2/1000		
BM (30°-60°)	690.3	3.8	B1/1000		
BH (60°-80°)	170.9	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°	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2
2.5°	5503.1	5433.9	5423.6	5410.0	5278.4	5179.6	5036.6	4880.0	4704.1	4524.8
5°	6357.7	6303.2	6293.0	6229.4	6079.6	5911.6	5657.4	5336.3	5008.3	4622.4
7.5°	6523.3	6513.1	6559.7	6557.4	6537.0	6404.2	6189.7	5807.2	5314.7	4742.7
10°	5784.5	5810.6	5949.1	6070.5	6398.5	6589.2	6542.6	6227.1	5630.2	4880.0
12.5°	5111.5	5080.9	5179.6	5317.0	5698.3	6265.7	6689.0	6577.8	5991.1	5035.5
15°	4689.4	4676.9	4732.5	4796.0	5086.6	5658.6	6518.8	6862.7	6338.4	5219.4
17.5°	4554.3	4544.1	4561.1	4577.0	4765.4	5208.0	6113.7	7037.5	6670.9	5429.3
20°	4664.4	4650.8	4648.5	4636.0	4714.3	5016.2	5747.1	7049.9	6969.4	5620.0
22.5°	4985.6	4969.7	4914.1	4864.1	4870.9	5042.3	5583.7	6925.1	7194.1	5798.2
25°	5567.8	5541.7	5425.9	5257.9	5151.3	5223.9	5608.6	6760.5	7408.6	5937.7
27.5°	6296.4	6262.3	6113.7	5864.0	5620.0	5531.5	5789.1	6647.1	7586.7	6044.4
30°	7010.2	6966.0	6819.6	6625.5	6269.1	5990.0	6114.8	6697.0	7799.0	6155.6
32.5°	7780.8	7738.8	7544.8	7304.2	7009.1	6633.4	6560.8	6941.0	8058.9	6311.1
35°	8755.7	8689.9	8414.1	8086.1	7772.9	7392.7	7164.6	7362.0	8405.0	6548.3
37.5°	9865.6	9777.1	9479.7	9026.9	8618.4	8192.8	7900.0	7940.8	8912.3	6866.1
40°	10912.0	10831.4	10556.7	10130.0	9617.1	9100.7	8788.6	8697.8	9612.5	7253.1
42.5°	11539.6	11466.9	11351.2	11170.7	10738.3	10211.7	9817.9	9621.6	10441.0	7716.1
45°	11574.7	11511.2	11666.7	11876.6	11791.5	11440.8	10960.8	10601.0	11272.9	8150.8
47.5°	11011.8	10968.7	11440.8	12174.0	12539.4	12686.9	12244.3	11498.7	11959.5	8462.9
50°	9477.5	9461.6	10433.0	11779.0	12824.3	13778.7	13598.3	12334.0	12491.7	8624.0
52.5°	8217.7	8159.9	8726.2	10514.8	12410.0	14353.0	14921.5	13153.4	12864.0	8654.7
55°	6232.8	6181.7	6892.2	8399.3	11074.3	14148.7	15889.6	13998.9	13130.7	8576.4
57.5°	3343.4	3311.6	4209.3	5590.5	8656.9	12923.0	16064.4	14893.2	13355.4	8368.7
60°	1301.7	1296.0	1632.0	2712.4	5261.4	10513.6	15182.6	15430.0	13496.1	8113.3
62.5°	787.6	804.6	859.1	1217.7	2324.3	6531.3	13150.0	14819.4	13590.3	7879.5
65°	651.4	652.6	659.4	836.4	1113.3	2732.8	9899.6	12810.6	13357.7	7463.0
67.5°	558.4	568.6	594.7	663.9	785.3	1198.4	5699.4	9923.5	11942.5	6493.8
70°	440.3	454.0	486.9	545.9	606.0	750.2	2106.4	6602.8	9123.4	4894.8
72.5°	371.1	370.0	387.0	443.7	481.2	527.7	810.3	3699.7	5302.2	2336.7
75°	287.1	298.5	320.0	371.1	393.8	382.5	439.2	1351.7	1899.8	708.2
77.5°	224.7	233.8	253.1	303.0	325.7	271.2	253.1	483.5	610.6	254.2
80°	101.0	108.9	172.5	223.6	265.6	187.3	137.3	247.4	271.2	115.8
82.5°	18.2	30.6	101.0	118.0	136.2	121.4	71.5	128.2	132.8	46.5
85°	1.1	2.3	35.2	43.1	54.5	39.7	21.6	51.1	44.3	15.9
87.5°	0.0	0.0	0.0	1.1	1.1	5.7	6.8	9.1	6.8	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°
4435.2	0°	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2
4445.4	2.5°	4363.7	4202.5	4045.9	3917.6	3842.7	3715.6	3631.6	3618.0	3582.8	3613.5
4456.7	5°	4279.7	3991.4	3699.7	3438.7	3224.2	2947.3	2740.8	2653.4	2577.3	2603.4
4486.2	7.5°	4240.0	3784.9	3330.9	2884.9	2426.4	1983.8	1654.7	1517.3	1412.9	1427.7
4519.1	10°	4186.6	3570.4	2858.8	2177.9	1563.9	1126.9	900.0	816.0	769.5	770.6
4567.9	12.5°	4145.8	3313.9	2310.6	1476.5	952.2	719.5	649.2	628.7	615.1	616.2
4641.7	15°	4125.3	3012.0	1769.3	983.9	680.9	609.4	592.4	583.3	574.3	573.1
4723.4	17.5°	4091.3	2676.1	1294.9	718.4	595.8	570.8	556.1	545.9	534.5	532.3
4793.8	20°	4040.2	2294.7	946.5	607.2	558.4	539.1	518.6	505.0	491.4	489.1
4838.0	22.5°	3946.0	1891.9	727.5	561.8	531.1	509.6	484.6	468.7	455.1	452.8
4816.5	25°	3771.2	1513.9	612.8	533.4	507.3	481.2	454.0	432.4	419.9	417.6
4769.9	27.5°	3549.9	1189.4	556.1	507.3	476.7	452.8	422.2	401.8	390.4	388.1
4708.7	30°	3288.9	915.9	523.2	477.8	440.3	419.9	392.7	375.6	368.8	368.8
4665.5	32.5°	3007.5	732.0	509.6	448.3	408.6	385.9	364.3	357.5	355.2	354.1
4689.4	35°	2743.0	635.5	502.8	424.4	380.2	358.6	349.5	350.7	355.2	355.2
4763.1	37.5°	2508.1	604.9	499.4	407.4	355.2	335.9	341.6	351.8	347.3	347.3
4892.5	40°	2295.9	608.3	497.1	394.9	334.8	323.4	334.8	326.8	315.5	314.4
5050.3	42.5°	2133.6	636.7	492.5	384.7	322.3	314.4	309.8	297.3	296.2	298.5
5213.7	45°	2015.6	661.6	491.4	380.2	308.7	293.9	288.3	275.8	298.5	304.2
5280.6	47.5°	1876.0	661.6	491.4	364.3	286.0	280.3	271.2	257.6	280.3	286.0
5217.1	50°	1695.5	619.7	472.1	346.1	267.8	264.4	248.5	231.5	227.0	230.4
5068.4	52.5°	1467.4	543.6	423.3	321.2	249.7	242.9	223.6	211.1	207.7	207.7
4801.7	55°	1207.5	455.1	357.5	284.9	230.4	217.9	204.3	198.6	195.2	192.9
4428.3	57.5°	981.7	373.4	287.1	253.1	212.2	196.3	191.8	185.0	179.3	175.9
4116.2	60°	805.8	293.9	237.2	224.7	194.1	179.3	178.2	169.1	154.3	152.1
3858.6	62.5°	621.9	215.6	199.7	195.2	175.9	163.4	161.2	143.0	120.3	115.8
3493.2	65°	439.2	168.0	161.2	171.4	156.6	145.3	139.6	112.4	88.5	85.1
2923.5	67.5°	308.7	140.7	127.1	149.8	136.2	121.4	118.0	95.3	73.8	71.5
2210.8	70°	220.2	114.6	104.4	128.2	108.9	106.7	99.9	79.4	60.1	57.9
1094.0	72.5°	155.5	87.4	80.6	111.2	74.9	91.9	81.7	61.3	45.4	43.1
372.2	75°	114.6	62.4	56.7	64.7	54.5	69.2	57.9	40.9	28.4	27.2
168.0	77.5°	84.0	39.7	34.0	31.8	31.8	43.1	31.8	17.0	12.5	11.3
85.1	80°	59.0	18.2	15.9	13.6	12.5	10.2	4.5	2.3	1.1	1.1
29.5	82.5°	35.2	7.9	7.9	5.7	3.4	0.0	0.0	0.0	0.0	0.0
11.3	85°	7.9	3.4	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
4.5	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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