

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: P954891

Luminaire Tested: **GALN-SB8A-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954891
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-SB8A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 350mA 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: 30927 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

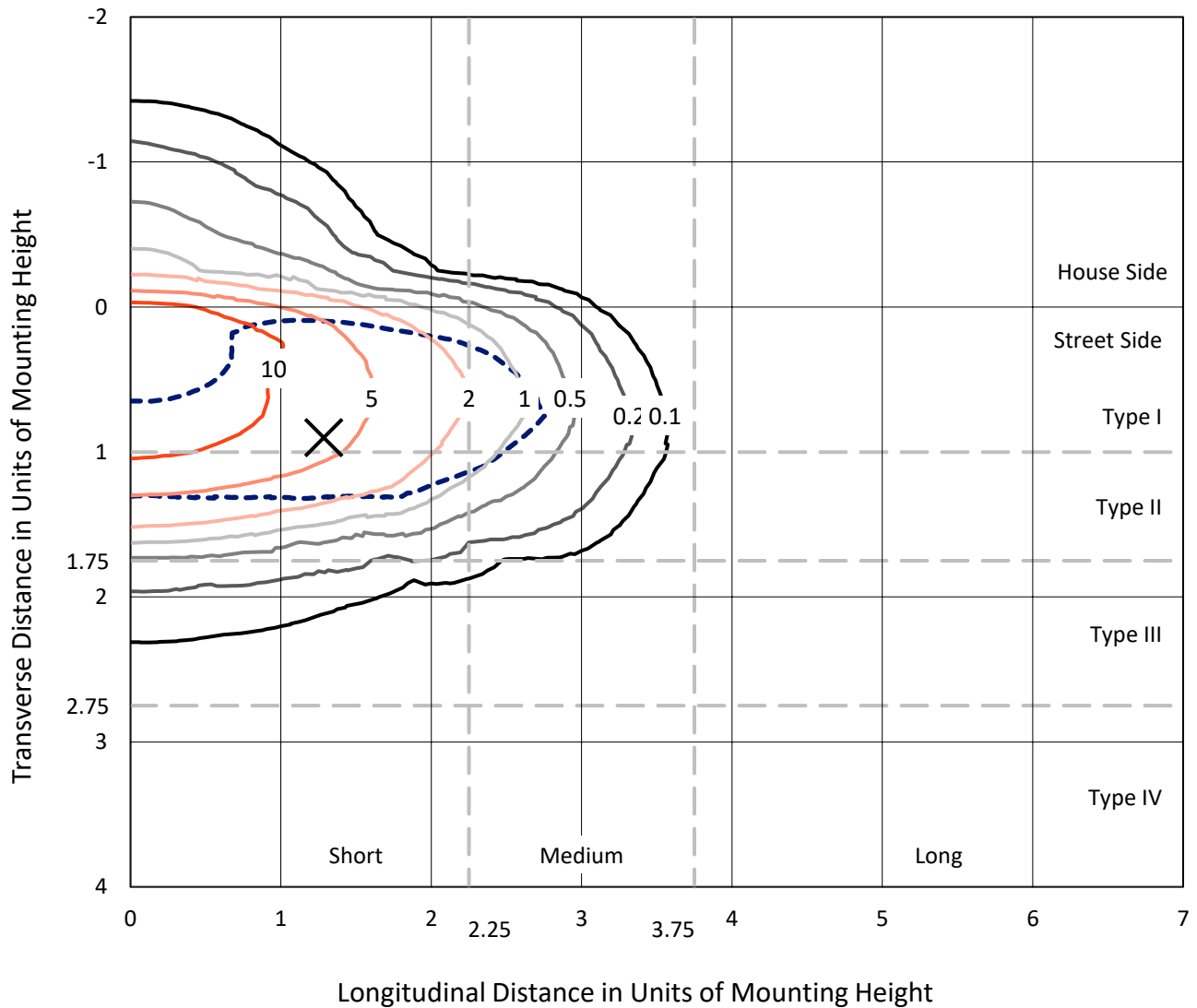
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

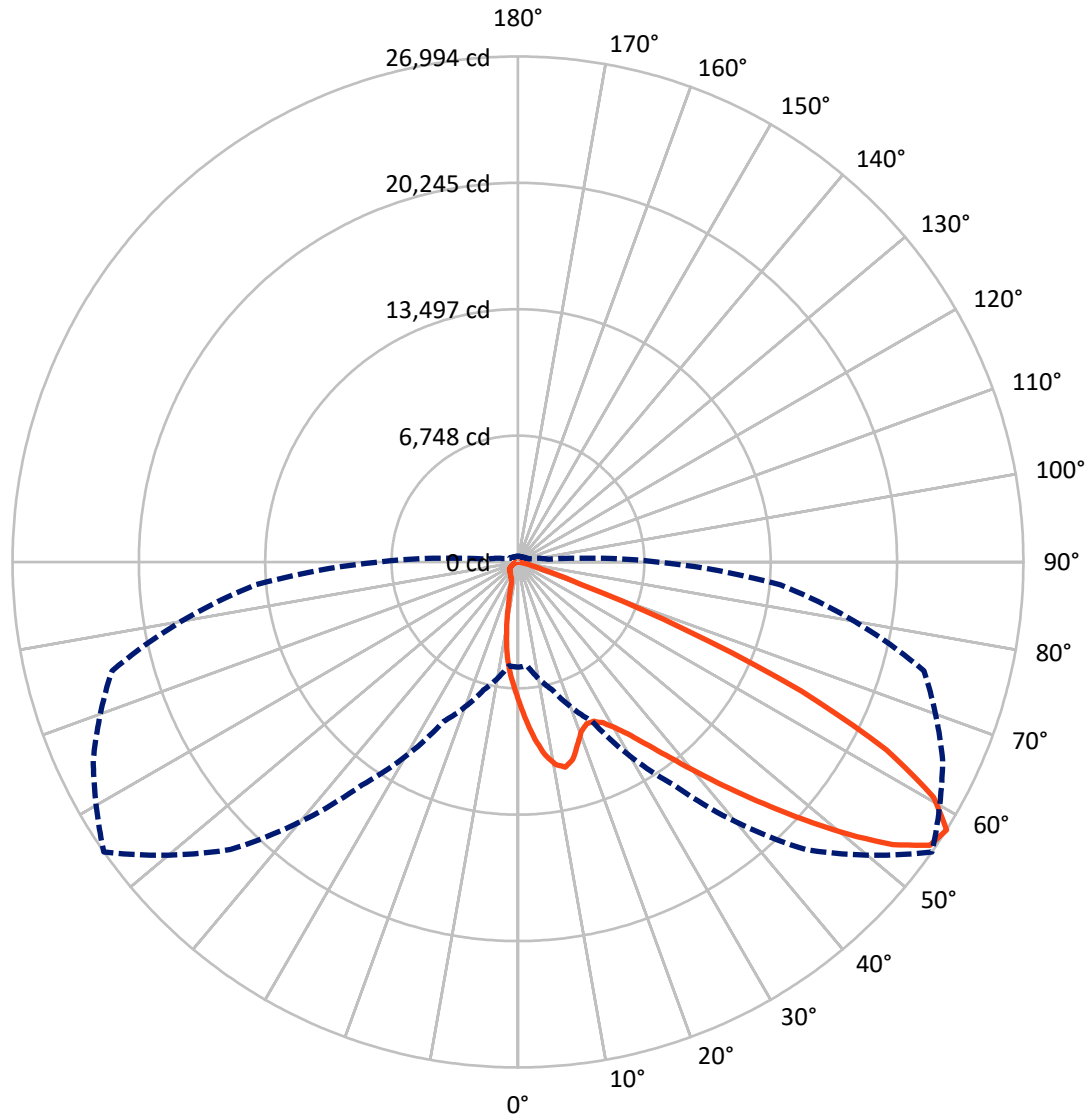
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 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	2415.3	0.0	2415.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	28511.7	0.0	28511.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	30927.0	0.0	30927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	693.4	2.2
10°-20°	1675.0	5.4
20°-30°	2679.9	8.7
30°-40°	4536.0	14.7
40°-50°	7447.1	24.1
50°-60°	8184.9	26.5
60°-70°	4694.9	15.2
70°-80°	959.3	3.1
80°-90°	56.6	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°	30927.0	100.0
0°-180°	30927.0	100.0

Coefficient of Utilization



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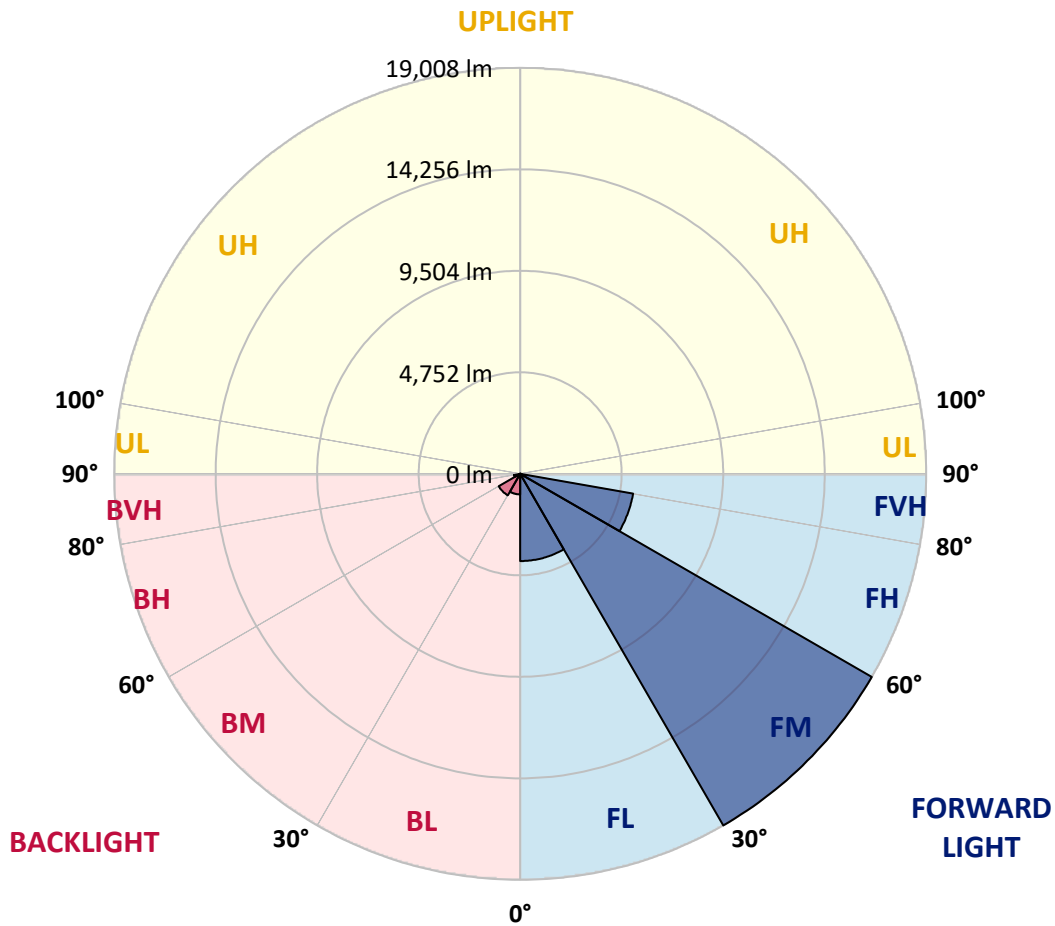
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4084.1	13.2			
FM (30°-60°)	19008.0	61.5			
FH (60°-80°)	5366.9	17.4			G3/7500
FVH (80°-90°)	52.8	0.2			G1/100
BL (0°-30°)	964.2	3.1	B2/1000		
BM (30°-60°)	1160.0	3.8	B2/2500		
BH (60°-80°)	287.2	0.9	B1/500		G1/500
BVH (80°-90°)	3.8	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7452.6	7452.6	7452.6	7452.6	7452.6	7452.6	7452.6	7452.6	7452.6	7452.6
2.5°	9247.2	9130.8	9113.7	9090.8	8869.6	8703.7	8463.4	8200.2	7904.6	7603.3
5°	10683.1	10591.6	10574.4	10467.6	10215.9	9933.7	9506.5	8966.8	8415.7	7767.3
7.5°	10961.6	10944.4	11022.6	11018.8	10984.5	10761.3	10400.9	9758.2	8930.6	7969.4
10°	9720.1	9764.0	9996.6	10200.7	10751.8	11072.2	10994.0	10463.8	9460.7	8200.2
12.5°	8589.2	8537.7	8703.7	8934.4	9575.2	10528.7	11240.0	11053.1	10067.2	8461.5
15°	7879.8	7858.8	7952.3	8059.1	8547.3	9508.4	10953.9	11531.8	10650.7	8770.4
17.5°	7652.9	7635.7	7664.3	7691.0	8007.6	8751.3	10273.1	11825.4	11209.5	9123.2
20°	7837.9	7815.0	7811.2	7790.2	7921.8	8429.0	9657.2	11846.4	11711.0	9443.6
22.5°	8377.6	8350.9	8257.4	8173.5	8184.9	8472.9	9382.6	11636.7	12088.6	9743.0
25°	9355.9	9312.0	9117.5	8835.2	8656.0	8778.0	9424.5	11360.1	12449.0	9977.5
27.5°	10580.2	10523.0	10273.1	9853.6	9443.6	9294.8	9727.7	11169.4	12748.4	10156.8
30°	11779.7	11705.3	11459.3	11133.2	10534.4	10065.3	10275.0	11253.3	13105.1	10343.7
32.5°	13074.5	13004.0	12677.9	12273.6	11777.8	11146.5	11024.5	11663.4	13541.8	10605.0
35°	14712.7	14602.1	14138.7	13587.5	13061.2	12422.3	12039.0	12370.9	14123.4	11003.5
37.5°	16577.7	16429.0	15929.4	15168.5	14481.9	13766.8	13274.8	13343.4	14975.8	11537.5
40°	18336.0	18200.6	17739.1	17022.1	16160.1	15292.4	14768.0	14615.4	16152.5	12187.8
42.5°	19390.6	19268.6	19074.0	18770.8	18044.2	17159.4	16497.7	16167.7	17544.6	12965.8
45°	19449.7	19342.9	19604.2	19957.0	19814.0	19224.7	18418.0	17813.5	18942.5	13696.2
47.5°	18503.8	18431.4	19224.7	20456.6	21070.7	21318.6	20574.9	19322.0	20096.2	14220.7
50°	15925.5	15898.8	17531.3	19793.0	21549.4	23153.2	22849.9	20725.5	20990.6	14491.5
52.5°	13808.8	13711.5	14663.1	17668.6	20853.3	24118.1	25073.5	22102.4	21616.1	14543.0
55°	10473.4	10387.6	11581.3	14113.9	18608.7	23774.9	26700.2	23523.1	22064.3	14411.4
57.5°	5618.1	5564.7	7073.1	9394.0	14546.8	21715.3	26993.9	25025.9	22441.8	14062.4
60°	2187.4	2177.8	2742.3	4557.8	8841.0	17666.7	25512.1	25927.9	22678.3	13633.3
62.5°	1323.5	1352.1	1443.6	2046.2	3905.6	10974.9	22096.7	24901.9	22836.6	13240.5
65°	1094.6	1096.5	1108.0	1405.5	1870.8	4592.1	16635.0	21526.5	22445.7	12540.6
67.5°	938.3	955.4	999.3	1115.6	1319.7	2013.8	9577.1	16675.0	20067.6	10912.0
70°	739.9	762.8	818.1	917.3	1018.4	1260.5	3539.4	11095.1	15330.6	8225.0
72.5°	623.6	621.7	650.3	745.6	808.6	886.8	1361.6	6216.9	8909.6	3926.6
75°	482.5	501.5	537.8	623.6	661.7	642.7	738.0	2271.3	3192.4	1190.0
77.5°	377.6	392.8	425.3	509.2	547.3	455.8	425.3	812.4	1026.0	427.2
80°	169.7	183.1	289.9	375.7	446.2	314.7	230.7	415.7	455.8	194.5
82.5°	30.5	51.5	169.7	198.3	228.8	204.1	120.1	215.5	223.1	78.2
85°	1.9	3.8	59.1	72.5	91.5	66.7	36.2	85.8	74.4	26.7
87.5°	0.0	0.0	0.0	1.9	1.9	9.5	11.4	15.3	11.4	9.5
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°
7452.6	0°	7452.6	7452.6	7452.6	7452.6	7452.6	7452.6	7452.6	7452.6	7452.6	7452.6
7469.8	2.5°	7332.5	7061.7	6798.5	6583.0	6457.2	6243.6	6102.5	6079.6	6020.5	6072.0
7488.9	5°	7191.4	6707.0	6216.9	5778.3	5417.9	4952.5	4605.5	4458.6	4330.8	4374.7
7538.5	7.5°	7124.6	6359.9	5597.1	4847.7	4077.2	3333.5	2780.4	2549.7	2374.2	2399.0
7593.8	10°	7035.0	5999.5	4803.8	3659.6	2627.9	1893.7	1512.3	1371.1	1293.0	1294.9
7675.8	12.5°	6966.4	5568.5	3882.7	2481.0	1600.0	1209.1	1090.8	1056.5	1033.6	1035.5
7799.7	15°	6932.0	5061.2	2973.0	1653.4	1144.2	1024.1	995.5	980.2	965.0	963.0
7937.0	17.5°	6874.8	4496.8	2175.9	1207.1	1001.2	959.2	934.4	917.3	898.2	894.4
8055.3	20°	6789.0	3856.0	1590.5	1020.3	938.3	905.8	871.5	848.6	825.7	821.9
8129.6	22.5°	6630.7	3179.0	1222.4	944.0	892.5	856.3	814.3	787.6	764.7	760.9
8093.4	25°	6337.0	2544.0	1029.8	896.3	852.4	808.6	762.8	726.6	705.6	701.8
8015.2	27.5°	5965.2	1998.6	934.4	852.4	800.9	760.9	709.4	675.1	656.0	652.2
7912.2	30°	5526.6	1539.0	879.1	802.9	739.9	705.6	659.8	631.2	619.8	619.8
7839.8	32.5°	5053.6	1230.0	856.3	753.3	686.5	648.4	612.2	600.7	596.9	595.0
7879.8	35°	4609.3	1067.9	844.8	713.2	638.9	602.6	587.4	589.3	596.9	596.9
8003.8	37.5°	4214.5	1016.4	839.1	684.6	596.9	564.5	574.0	591.2	583.5	583.5
8221.2	40°	3857.9	1022.2	835.3	663.6	562.6	543.5	562.6	549.2	530.2	528.2
8486.3	42.5°	3585.2	1069.8	827.6	646.5	541.6	528.2	520.6	499.6	497.7	501.5
8760.9	45°	3386.9	1111.8	825.7	638.9	518.7	493.9	484.4	463.4	501.5	511.1
8873.4	47.5°	3152.3	1111.8	825.7	612.2	480.6	471.0	455.8	432.9	471.0	480.6
8766.6	50°	2849.1	1041.2	793.3	581.6	450.1	444.3	417.6	389.0	381.4	387.1
8516.8	52.5°	2465.8	913.5	711.3	539.7	419.5	408.1	375.7	354.7	349.0	349.0
8068.6	55°	2029.1	764.7	600.7	478.7	387.1	366.1	343.3	333.7	328.0	324.2
7441.2	57.5°	1649.6	627.4	482.5	425.3	356.6	329.9	322.3	310.8	301.3	295.6
6916.8	60°	1354.0	493.9	398.6	377.6	326.1	301.3	299.4	284.1	259.4	255.5
6483.9	62.5°	1045.0	362.3	335.6	328.0	295.6	274.6	270.8	240.3	202.1	194.5
5869.8	65°	738.0	282.2	270.8	288.0	263.2	244.1	234.6	188.8	148.7	143.0
4912.5	67.5°	518.7	236.5	213.6	251.7	228.8	204.1	198.3	160.2	124.0	120.1
3714.9	70°	370.0	192.6	175.4	215.5	183.1	179.3	167.8	133.5	101.1	97.3
1838.4	72.5°	261.3	146.8	135.4	186.9	125.9	154.5	137.3	103.0	76.3	72.5
625.5	75°	192.6	104.9	95.4	108.7	91.5	116.3	97.3	68.7	47.7	45.8
282.2	77.5°	141.1	66.7	57.2	53.4	53.4	72.5	53.4	28.6	21.0	19.1
143.0	80°	99.2	30.5	26.7	22.9	21.0	17.2	7.6	3.8	1.9	1.9
49.6	82.5°	59.1	13.3	13.3	9.5	5.7	0.0	0.0	0.0	0.0	0.0
19.1	85°	13.3	5.7	5.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
7.6	87.5°	1.9	1.9	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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