

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: P954996

Luminaire Tested: **GALN-SB8A-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954996
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-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 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: 27789 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

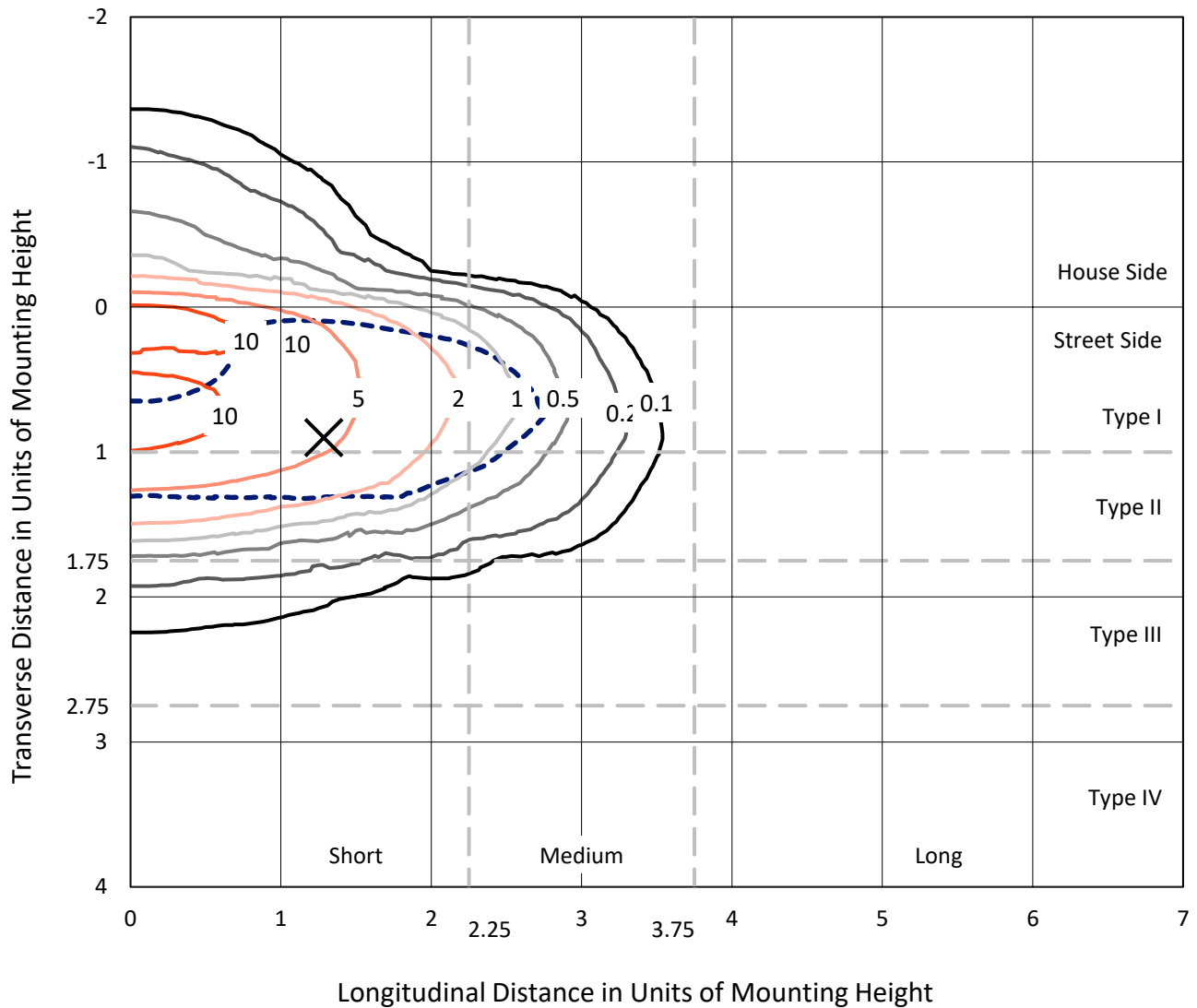
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

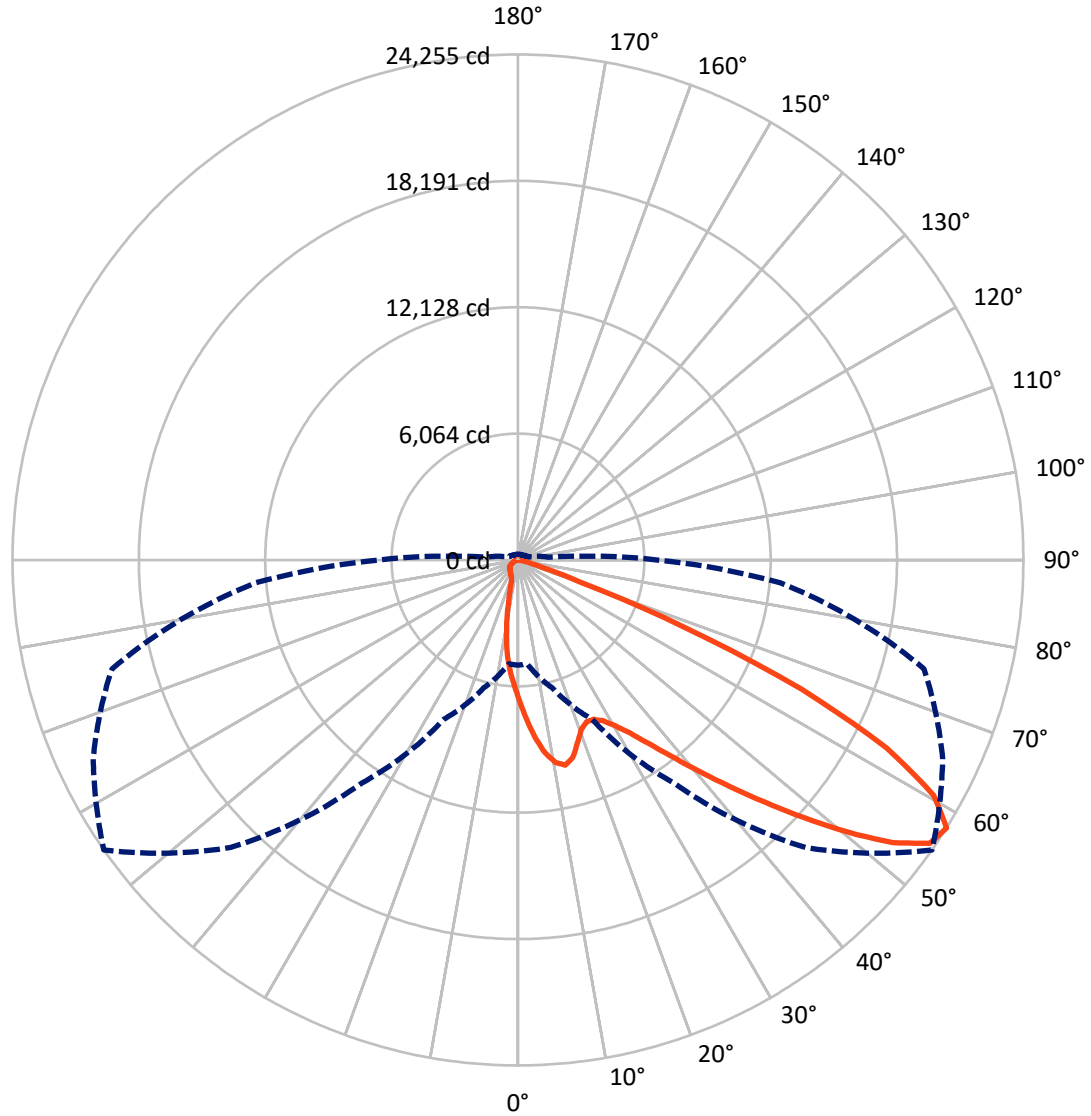
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	2170.2	0.0	2170.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	25618.8	0.0	25618.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	27789.0	0.0	27789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.1	2.2
10°-20°	1505.0	5.4
20°-30°	2408.0	8.7
30°-40°	4075.7	14.7
40°-50°	6691.5	24.1
50°-60°	7354.4	26.5
60°-70°	4218.5	15.2
70°-80°	862.0	3.1
80°-90°	50.8	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°	27789.0	100.0
0°-180°	27789.0	100.0

Coefficient of Utilization



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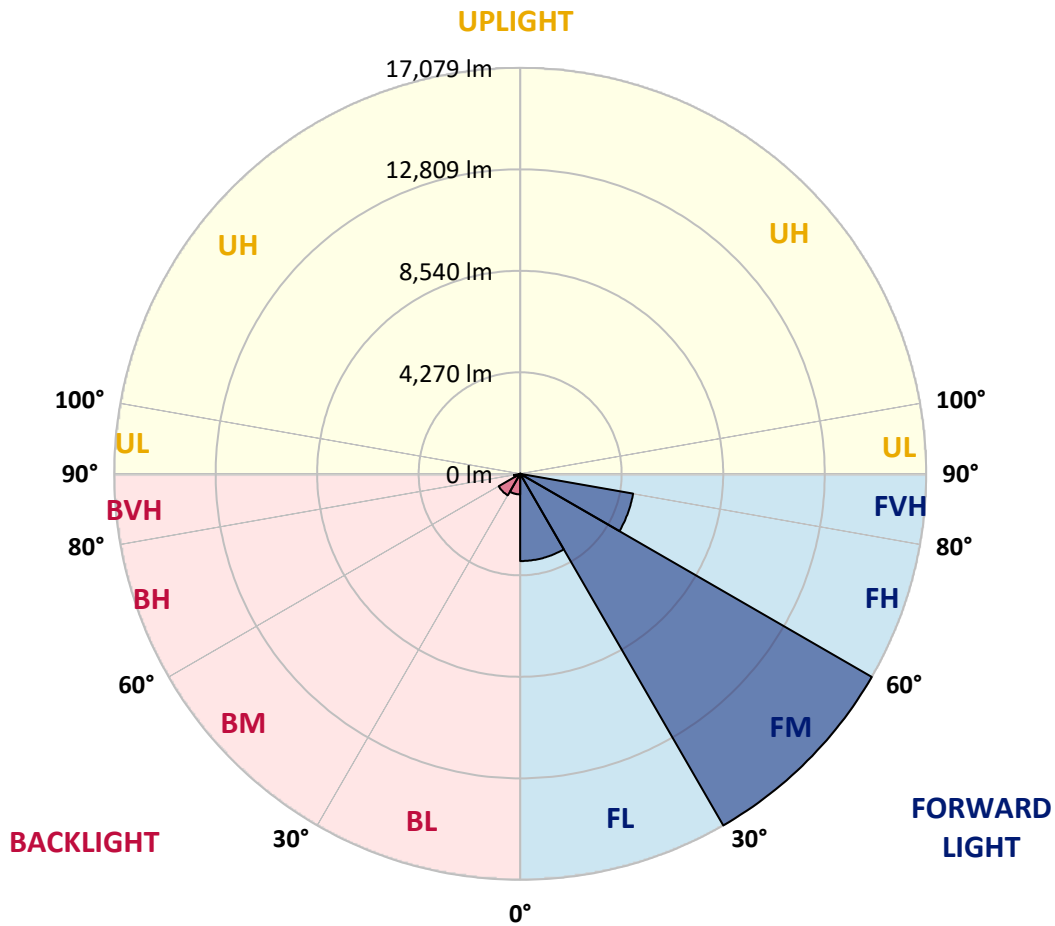
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3669.7	13.2			
FM (30°-60°)	17079.3	61.5			
FH (60°-80°)	4822.3	17.4			G2/5000
FVH (80°-90°)	47.4	0.2			G1/100
BL (0°-30°)	866.4	3.1	B2/1000		
BM (30°-60°)	1042.3	3.8	B2/2500		
BH (60°-80°)	258.1	0.9	B1/500		G1/500
BVH (80°-90°)	3.4	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°	6696.5	6696.5	6696.5	6696.5	6696.5	6696.5	6696.5	6696.5	6696.5	6696.5
2.5°	8308.9	8204.4	8188.9	8168.4	7969.6	7820.5	7604.6	7368.2	7102.6	6831.8
5°	9599.2	9516.9	9501.5	9405.6	9179.4	8925.8	8541.9	8057.0	7561.8	6979.2
7.5°	9849.4	9833.9	9904.2	9900.8	9869.9	9669.4	9345.6	8768.1	8024.4	7160.8
10°	8733.8	8773.3	8982.3	9165.7	9660.9	9948.7	9878.5	9402.1	8500.8	7368.2
12.5°	7717.7	7671.5	7820.5	8027.9	8603.6	9460.4	10099.5	9931.6	9045.7	7602.9
15°	7080.3	7061.4	7145.4	7241.4	7680.0	8543.6	9842.5	10361.7	9570.0	7880.5
17.5°	6876.4	6861.0	6886.7	6910.7	7195.1	7863.4	9230.8	10625.6	10072.1	8197.5
20°	7042.6	7022.0	7018.6	6999.8	7118.0	7573.8	8677.3	10644.4	10522.8	8485.4
22.5°	7527.5	7503.5	7419.6	7344.2	7354.5	7613.2	8430.6	10455.9	10862.0	8754.4
25°	8406.6	8367.2	8192.4	7938.8	7777.7	7887.4	8468.3	10207.5	11185.9	8965.2
27.5°	9506.6	9455.2	9230.8	8853.8	8485.4	8351.7	8740.7	10036.1	11454.9	9126.2
30°	10584.5	10517.6	10296.6	10003.6	9465.5	9044.0	9232.5	10111.5	11775.4	9294.2
32.5°	11747.9	11684.5	11391.5	11028.3	10582.7	10015.6	9905.9	10479.9	12167.8	9528.9
35°	13219.9	13120.5	12704.1	12208.9	11735.9	11161.9	10817.5	11115.7	12690.4	9887.1
37.5°	14895.7	14762.0	14313.1	13629.4	13012.5	12370.0	11927.9	11989.5	13456.3	10366.8
40°	16475.6	16353.9	15939.2	15294.9	14520.4	13740.8	13269.6	13132.5	14513.6	10951.2
42.5°	17423.1	17313.5	17138.7	16866.2	16213.4	15418.3	14823.7	14527.3	15764.4	11650.3
45°	17476.3	17380.3	17615.1	17932.1	17803.5	17274.1	16549.2	16006.1	17020.5	12306.6
47.5°	16626.4	16561.2	17274.1	18381.0	18932.8	19155.5	18487.2	17361.5	18057.1	12777.8
50°	14309.7	14285.7	15752.5	17784.7	19362.9	20803.9	20531.5	18622.6	18860.8	13021.1
52.5°	12407.7	12320.3	13175.3	15875.8	18737.4	21671.0	22529.5	19859.8	19422.8	13067.4
55°	9410.7	9333.6	10406.3	12681.8	16720.6	21362.5	23991.1	21136.4	19825.5	12949.1
57.5°	5048.1	5000.1	6355.5	8440.8	13070.8	19511.9	24255.0	22486.6	20164.8	12635.5
60°	1965.4	1956.8	2464.1	4095.3	7943.9	15874.1	22923.6	23297.1	20377.3	12250.0
62.5°	1189.2	1214.9	1297.1	1838.6	3509.3	9861.3	19854.6	22375.2	20519.5	11897.0
65°	983.6	985.3	995.6	1262.9	1681.0	4126.2	14947.1	19342.3	20168.2	11268.2
67.5°	843.1	858.5	897.9	1002.4	1185.8	1809.5	8605.3	14983.1	18031.4	9804.8
70°	664.8	685.4	735.1	824.2	915.0	1132.6	3180.3	9969.3	13775.0	7390.4
72.5°	560.3	558.6	584.3	670.0	726.5	796.8	1223.5	5586.1	8005.6	3528.2
75°	433.5	450.7	483.2	560.3	594.6	577.5	663.1	2040.8	2868.4	1069.2
77.5°	339.3	353.0	382.1	457.5	491.8	409.5	382.1	730.0	921.9	383.8
80°	152.5	164.5	260.5	337.6	401.0	282.7	207.3	373.5	409.5	174.8
82.5°	27.4	46.3	152.5	178.2	205.6	183.3	108.0	193.6	200.5	70.3
85°	1.7	3.4	53.1	65.1	82.2	60.0	32.6	77.1	66.8	24.0
87.5°	0.0	0.0	0.0	1.7	1.7	8.6	10.3	13.7	10.3	8.6
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°
6696.5	0°	6696.5	6696.5	6696.5	6696.5	6696.5	6696.5	6696.5	6696.5	6696.5	6696.5
6711.9	2.5°	6588.5	6345.2	6108.7	5915.1	5802.0	5610.1	5483.3	5462.7	5409.6	5455.9
6729.0	5°	6461.7	6026.5	5586.1	5192.0	4868.1	4450.0	4138.2	4006.2	3891.4	3930.8
6773.6	7.5°	6401.7	5714.6	5029.2	4355.8	3663.5	2995.2	2498.3	2291.0	2133.3	2155.6
6823.3	10°	6321.2	5390.8	4316.4	3288.3	2361.2	1701.5	1358.8	1232.0	1161.8	1163.5
6896.9	12.5°	6259.5	5003.5	3488.7	2229.3	1437.6	1086.4	980.1	949.3	928.7	930.4
7008.3	15°	6228.7	4547.7	2671.4	1485.6	1028.1	920.2	894.5	880.8	867.0	865.3
7131.7	17.5°	6177.3	4040.5	1955.1	1084.7	899.6	861.9	839.6	824.2	807.1	803.6
7237.9	20°	6100.2	3464.8	1429.1	916.7	843.1	813.9	783.1	762.5	742.0	738.5
7304.8	22.5°	5957.9	2856.4	1098.4	848.2	801.9	769.4	731.7	707.7	687.1	683.7
7272.2	25°	5694.1	2285.8	925.3	805.4	765.9	726.5	685.4	652.9	634.0	630.6
7202.0	27.5°	5359.9	1795.8	839.6	765.9	719.7	683.7	637.4	606.6	589.5	586.0
7109.4	30°	4965.8	1382.8	789.9	721.4	664.8	634.0	592.9	567.2	556.9	556.9
7044.3	32.5°	4540.8	1105.2	769.4	676.8	616.9	582.6	550.0	539.8	536.3	534.6
7080.3	35°	4141.6	959.6	759.1	640.9	574.0	541.5	527.8	529.5	536.3	536.3
7191.7	37.5°	3786.9	913.3	754.0	615.2	536.3	507.2	515.8	531.2	524.3	524.3
7387.0	40°	3466.5	918.5	750.5	596.3	505.5	488.4	505.5	493.5	476.4	474.6
7625.2	42.5°	3221.4	961.3	743.7	580.9	486.6	474.6	467.8	448.9	447.2	450.7
7871.9	45°	3043.2	999.0	742.0	574.0	466.1	443.8	435.2	416.4	450.7	459.2
7973.0	47.5°	2832.5	999.0	742.0	550.0	431.8	423.2	409.5	389.0	423.2	431.8
7877.1	50°	2560.0	935.6	712.8	522.6	404.4	399.3	375.3	349.6	342.7	347.8
7652.6	52.5°	2215.6	820.8	639.1	484.9	377.0	366.7	337.6	318.7	313.6	313.6
7249.9	55°	1823.2	687.1	539.8	430.1	347.8	329.0	308.4	299.9	294.7	291.3
6686.2	57.5°	1482.2	563.8	433.5	382.1	320.4	296.4	289.6	279.3	270.7	265.6
6215.0	60°	1216.6	443.8	358.1	339.3	293.0	270.7	269.0	255.3	233.0	229.6
5826.0	62.5°	939.0	325.6	301.6	294.7	265.6	246.7	243.3	215.9	181.6	174.8
5274.2	65°	663.1	253.6	243.3	258.7	236.5	219.3	210.8	169.6	133.7	128.5
4414.0	67.5°	466.1	212.5	191.9	226.2	205.6	183.3	178.2	143.9	111.4	108.0
3338.0	70°	332.4	173.1	157.6	193.6	164.5	161.1	150.8	119.9	90.8	87.4
1651.8	72.5°	234.8	131.9	121.7	167.9	113.1	138.8	123.4	92.5	68.5	65.1
562.0	75°	173.1	94.2	85.7	97.7	82.2	104.5	87.4	61.7	42.8	41.1
253.6	77.5°	126.8	60.0	51.4	48.0	48.0	65.1	48.0	25.7	18.8	17.1
128.5	80°	89.1	27.4	24.0	20.6	18.8	15.4	6.9	3.4	1.7	1.7
44.6	82.5°	53.1	12.0	12.0	8.6	5.1	0.0	0.0	0.0	0.0	0.0
17.1	85°	12.0	5.1	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0
6.9	87.5°	1.7	1.7	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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