

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: P952539

Luminaire Tested: **GALN-SB6B-840-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952539
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-SB6B-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 27849 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

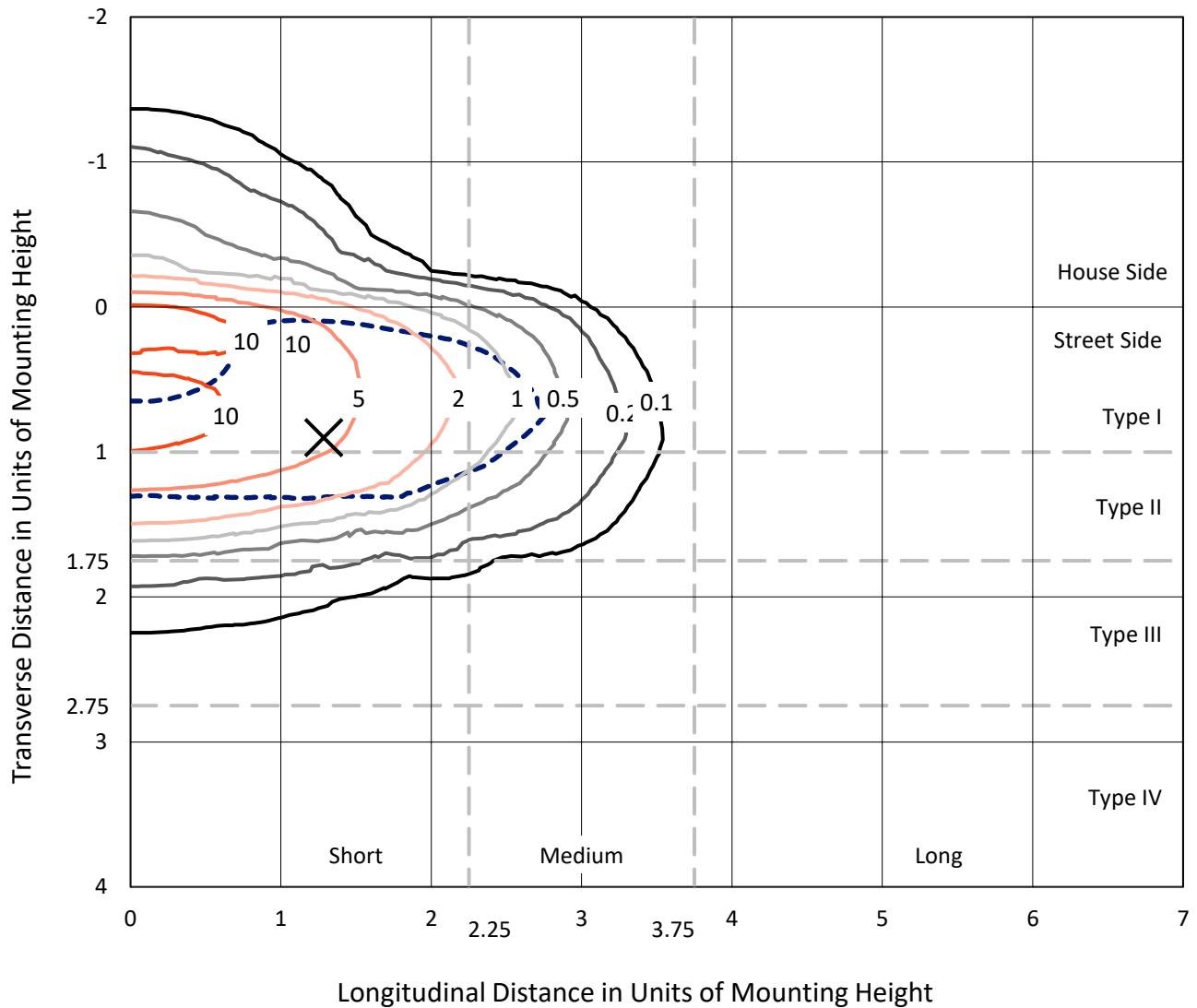
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

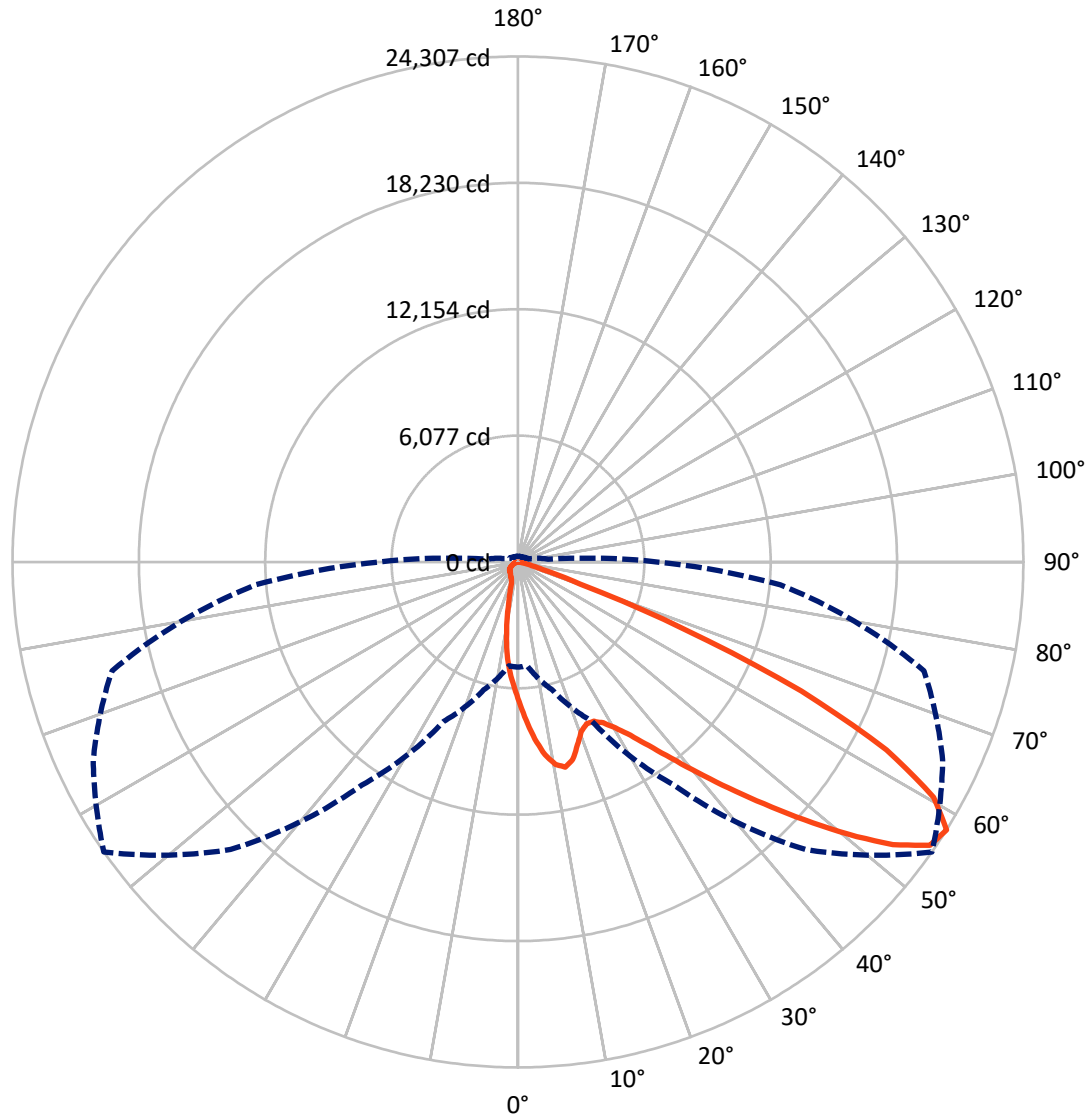
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	2174.9	0.0	2174.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	25674.1	0.0	25674.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	27849.0	0.0	27849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.4	2.2
10°-20°	1508.3	5.4
20°-30°	2413.2	8.7
30°-40°	4084.5	14.7
40°-50°	6705.9	24.1
50°-60°	7370.3	26.5
60°-70°	4227.6	15.2
70°-80°	863.8	3.1
80°-90°	51.0	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°	27849.0	100.0
0°-180°	27849.0	100.0

Coefficient of Utilization



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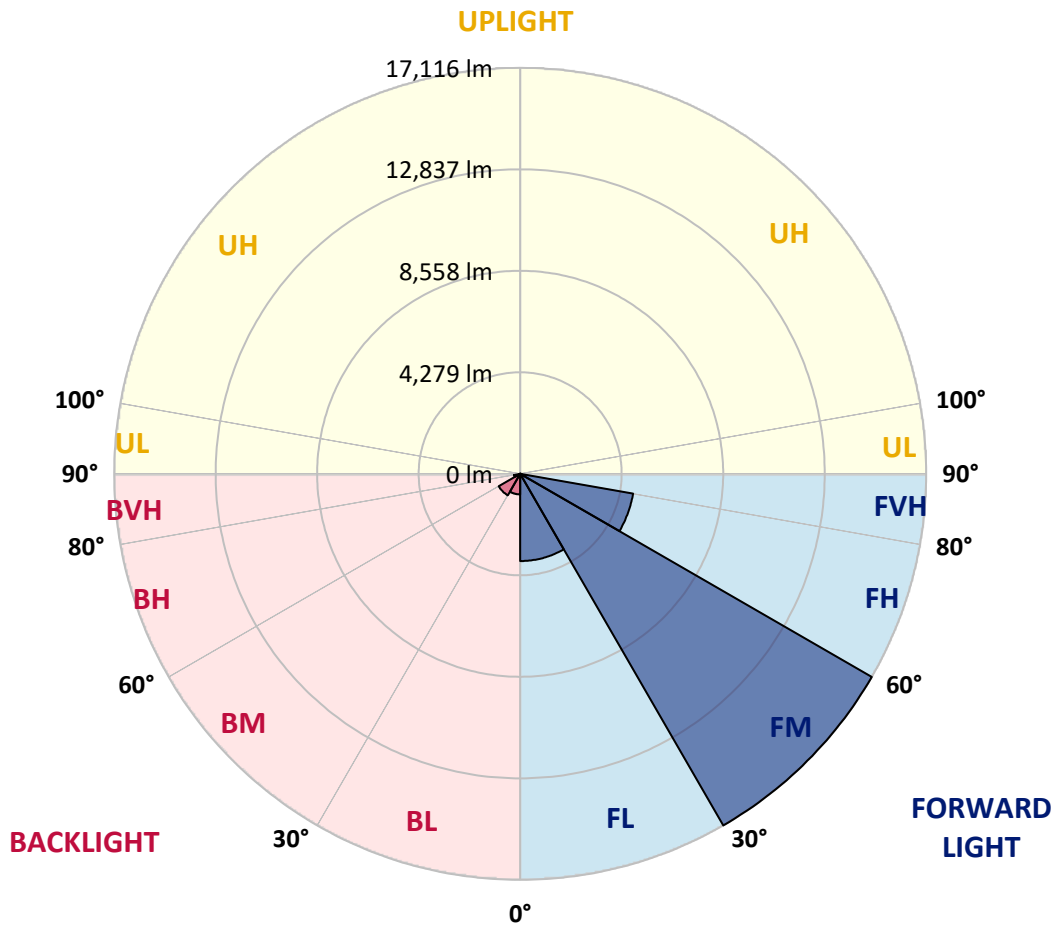
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3677.6	13.2			
FM (30°-60°)	17116.2	61.5			
FH (60°-80°)	4832.8	17.4			G2/5000
FVH (80°-90°)	47.5	0.2			G1/100
BL (0°-30°)	868.3	3.1	B2/1000		
BM (30°-60°)	1044.5	3.8	B2/2500		
BH (60°-80°)	258.7	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°	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9
2.5°	8326.8	8222.1	8206.6	8186.0	7986.8	7837.4	7621.1	7384.1	7117.9	6846.6
5°	9619.9	9537.5	9522.0	9425.9	9199.2	8945.0	8560.4	8074.4	7578.1	6994.3
7.5°	9870.6	9855.2	9925.6	9922.1	9891.2	9690.3	9365.8	8787.0	8041.8	7176.3
10°	8752.7	8792.2	9001.7	9185.4	9681.7	9970.2	9899.8	9422.4	8519.2	7384.1
12.5°	7734.4	7688.0	7837.4	8045.2	8622.2	9480.8	10121.3	9953.0	9065.2	7619.3
15°	7095.6	7076.7	7160.8	7257.0	7696.6	8562.1	9863.8	10384.1	9590.7	7897.5
17.5°	6891.2	6875.8	6901.5	6925.6	7210.6	7880.4	9250.7	10648.5	10093.9	8215.2
20°	7057.8	7037.2	7033.8	7014.9	7133.4	7590.1	8696.0	10667.4	10545.5	8503.7
22.5°	7543.8	7519.7	7435.6	7360.0	7370.3	7629.6	8448.8	10478.5	10885.5	8773.3
25°	8424.7	8385.2	8210.1	7955.9	7794.5	7904.4	8486.5	10229.5	11210.1	8984.5
27.5°	9527.2	9475.7	9250.7	8872.9	8503.7	8369.8	8759.6	10057.8	11479.7	9146.0
30°	10607.3	10540.3	10318.8	10025.2	9486.0	9063.5	9252.4	10133.4	11800.8	9314.2
32.5°	11773.3	11709.8	11416.1	11052.1	10605.6	10037.2	9927.3	10502.6	12194.0	9549.5
35°	13248.4	13148.8	12731.5	12235.2	11761.3	11186.0	10840.9	11139.7	12717.8	9908.4
37.5°	14927.9	14793.9	14344.0	13658.8	13040.6	12396.7	11953.6	12015.4	13485.4	10389.2
40°	16511.1	16389.2	15973.6	15328.0	14551.8	13770.4	13298.2	13160.8	14544.9	10974.8
42.5°	17460.8	17350.9	17175.7	16902.7	16248.4	15451.6	14855.7	14558.6	15798.5	11675.4
45°	17514.0	17417.8	17653.1	17970.8	17842.0	17311.4	16585.0	16040.6	17057.2	12333.1
47.5°	16662.3	16597.0	17311.4	18420.7	18973.6	19196.9	18527.2	17398.9	18096.1	12805.4
50°	14340.6	14316.5	15786.5	17823.1	19404.7	20848.9	20575.8	18662.8	18901.5	13049.2
52.5°	12434.4	12346.9	13203.8	15910.1	18777.9	21717.8	22578.1	19902.7	19464.8	13095.6
55°	9431.0	9353.7	10428.7	12709.2	16756.7	21408.7	24042.9	21182.0	19868.3	12977.1
57.5°	5059.0	5010.9	6369.2	8459.1	13099.0	19554.1	24307.3	22535.2	20208.3	12662.8
60°	1969.7	1961.1	2469.4	4104.2	7961.1	15908.4	22973.1	23347.4	20421.3	12276.5
62.5°	1191.8	1217.5	1299.9	1842.6	3516.9	9882.6	19897.5	22423.5	20563.8	11922.7
65°	985.7	987.4	997.7	1265.6	1684.6	4135.1	14979.4	19384.1	20211.8	11292.5
67.5°	844.9	860.3	899.8	1004.6	1188.3	1813.4	8623.9	15015.4	18070.4	9826.0
70°	666.3	686.9	736.7	826.0	917.0	1135.1	3187.2	9990.8	13804.8	7406.4
72.5°	561.5	559.8	585.6	671.4	728.1	798.5	1226.1	5598.2	8022.9	3535.8
75°	434.5	451.6	484.3	561.5	595.9	578.7	664.6	2045.2	2874.6	1071.5
77.5°	340.0	353.7	382.9	458.5	492.8	410.4	382.9	731.5	923.9	384.7
80°	152.8	164.9	261.0	338.3	401.8	283.3	207.8	374.4	410.4	175.2
82.5°	27.5	46.4	152.8	178.6	206.1	183.7	108.2	194.0	200.9	70.4
85°	1.7	3.4	53.2	65.3	82.4	60.1	32.6	77.3	67.0	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°
6710.9	0°	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9
6726.4	2.5°	6602.7	6358.9	6121.9	5927.9	5814.5	5622.2	5495.1	5474.5	5421.3	5467.7
6743.5	5°	6475.7	6039.5	5598.2	5203.2	4878.6	4459.6	4147.1	4014.9	3899.8	3939.3
6788.2	7.5°	6415.6	5727.0	5040.1	4365.2	3671.4	3001.7	2503.7	2295.9	2137.9	2160.3
6838.0	10°	6334.8	5402.4	4325.7	3295.4	2366.3	1705.2	1361.8	1234.7	1164.3	1166.0
6911.8	12.5°	6273.0	5014.3	3496.3	2234.1	1440.8	1088.7	982.3	951.3	930.7	932.5
7023.5	15°	6242.1	4557.5	2677.2	1488.8	1030.3	922.2	896.4	882.7	868.9	867.2
7147.1	17.5°	6190.6	4049.2	1959.4	1087.0	901.5	863.8	841.4	826.0	808.8	805.4
7253.6	20°	6113.3	3472.2	1432.2	918.7	844.9	815.7	784.8	764.2	743.6	740.1
7320.5	22.5°	5970.8	2862.6	1100.7	850.0	803.7	771.0	733.3	709.2	688.6	685.2
7287.9	25°	5706.3	2290.8	927.3	807.1	767.6	728.1	686.9	654.3	635.4	631.9
7217.5	27.5°	5371.5	1799.7	841.4	767.6	721.2	685.2	638.8	607.9	590.7	587.3
7124.8	30°	4976.5	1385.8	791.6	723.0	666.3	635.4	594.2	568.4	558.1	558.1
7059.5	32.5°	4550.7	1107.6	771.0	678.3	618.2	583.9	551.2	540.9	537.5	535.8
7095.6	35°	4150.5	961.6	760.7	642.2	575.3	542.6	528.9	530.6	537.5	537.5
7207.2	37.5°	3795.1	915.3	755.6	616.5	537.5	508.3	516.9	532.3	525.5	525.5
7403.0	40°	3473.9	920.4	752.1	597.6	506.6	489.4	506.6	494.6	477.4	475.7
7641.7	42.5°	3228.4	963.4	745.3	582.1	487.7	475.7	468.8	449.9	448.2	451.6
7888.9	45°	3049.8	1001.1	743.6	575.3	467.1	444.8	436.2	417.3	451.6	460.2
7990.3	47.5°	2838.6	1001.1	743.6	551.2	432.7	424.2	410.4	389.8	424.2	432.7
7894.1	50°	2565.5	937.6	714.4	523.8	405.3	400.1	376.1	350.3	343.4	348.6
7669.1	52.5°	2220.4	822.6	640.5	486.0	377.8	367.5	338.3	319.4	314.3	314.3
7265.6	55°	1827.1	688.6	540.9	431.0	348.6	329.7	309.1	300.5	295.4	291.9
6700.6	57.5°	1485.4	565.0	434.5	382.9	321.1	297.1	290.2	279.9	271.3	266.2
6228.4	60°	1219.2	444.8	358.9	340.0	293.6	271.3	269.6	255.9	233.5	230.1
5838.6	62.5°	941.0	326.3	302.2	295.4	266.2	247.3	243.8	216.4	182.0	175.2
5285.6	65°	664.6	254.1	243.8	259.3	237.0	219.8	211.2	170.0	133.9	128.8
4423.6	67.5°	467.1	212.9	192.3	226.7	206.1	183.7	178.6	144.2	111.6	108.2
3345.2	70°	333.1	173.4	158.0	194.0	164.9	161.4	151.1	120.2	91.0	87.6
1655.4	72.5°	235.3	132.2	121.9	168.3	113.3	139.1	123.6	92.7	68.7	65.3
563.3	75°	173.4	94.4	85.9	97.9	82.4	104.8	87.6	61.8	42.9	41.2
254.1	77.5°	127.1	60.1	51.5	48.1	48.1	65.3	48.1	25.8	18.9	17.2
128.8	80°	89.3	27.5	24.0	20.6	18.9	15.5	6.9	3.4	1.7	1.7
44.6	82.5°	53.2	12.0	12.0	8.6	5.2	0.0	0.0	0.0	0.0	0.0
17.2	85°	12.0	5.2	5.2	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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