

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: P952161

Luminaire Tested: **GALN-SB6A-835-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952161  
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-SB6A-835-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

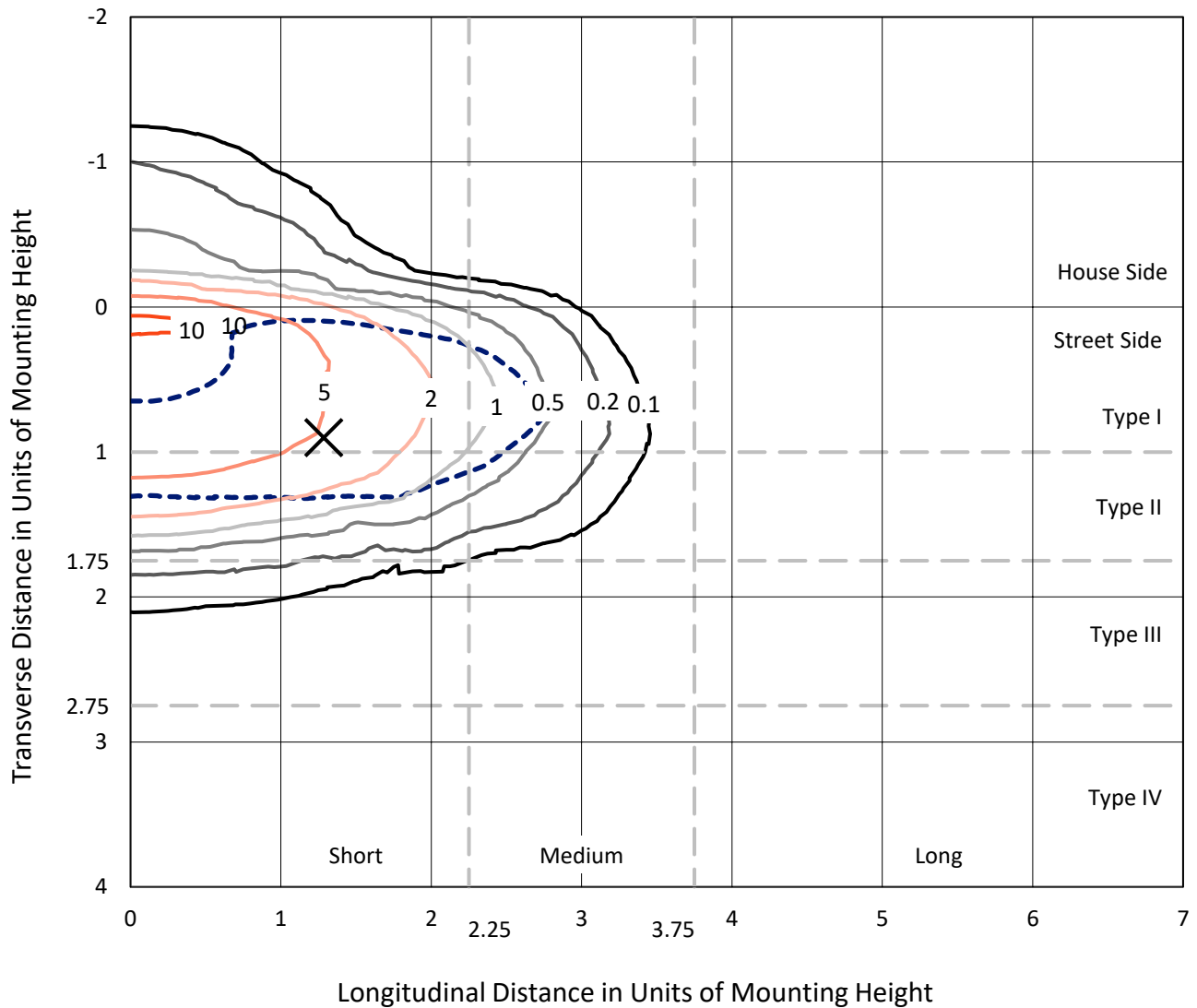
Lumens per Lamp: N/A  
Luminaire Lumens: 21512 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

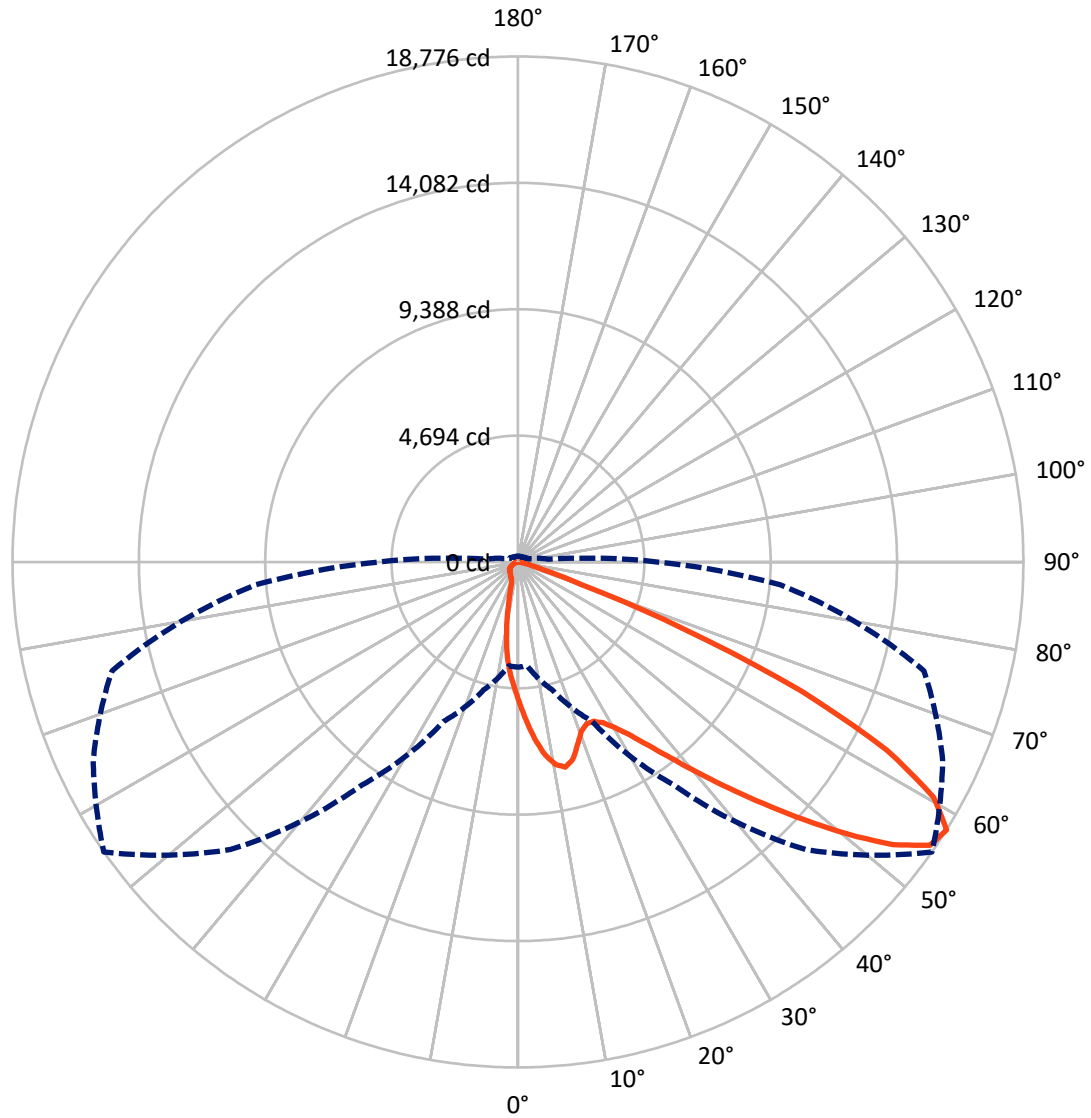
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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
<b>House Side</b>	Lumens	1680.0	0.0	1680.0
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	19832.0	0.0	19832.0
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	21512.0	0.0	21512.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.3	2.2
10°-20°	1165.1	5.4
20°-30°	1864.1	8.7
30°-40°	3155.1	14.7
40°-50°	5180.0	24.1
50°-60°	5693.2	26.5
60°-70°	3265.6	15.2
70°-80°	667.3	3.1
80°-90°	39.4	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°	21512.0	100.0
0°-180°	21512.0	100.0

**Coefficient of Utilization**



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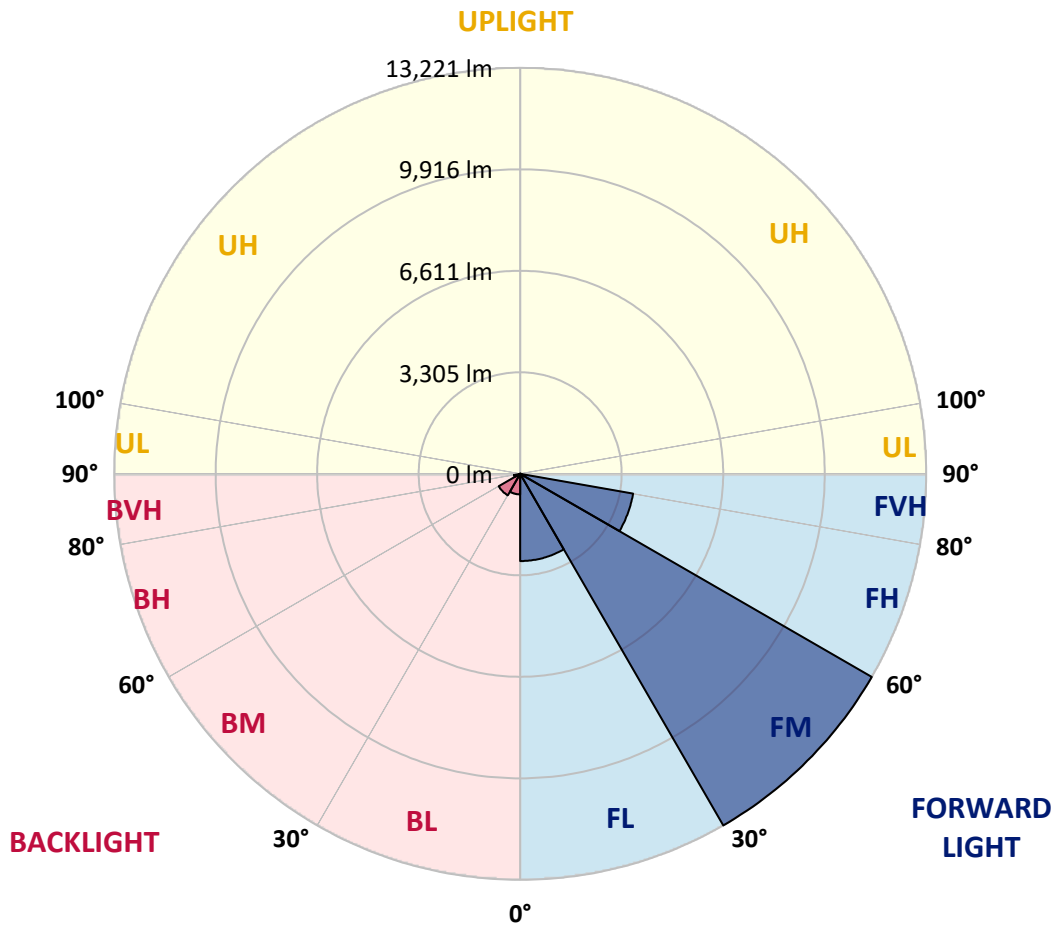
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2840.8	13.2			
FM (30°-60°)	13221.4	61.5			
FH (60°-80°)	3733.1	17.4			G2/5000
FVH (80°-90°)	36.7	0.2			G1/100
BL (0°-30°)	670.7	3.1	B2/1000		
BM (30°-60°)	806.8	3.8	B1/1000		
BH (60°-80°)	199.8	0.9	B1/500		G1/500
BVH (80°-90°)	2.7	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°	5183.9	5183.9	5183.9	5183.9	5183.9	5183.9	5183.9	5183.9	5183.9	5183.9
2.5°	6432.1	6351.2	6339.2	6323.3	6169.4	6054.0	5886.9	5703.8	5498.2	5288.7
5°	7430.9	7367.2	7355.3	7281.0	7105.9	6909.6	6612.5	6237.1	5853.7	5402.7
7.5°	7624.6	7612.6	7667.0	7664.4	7640.5	7485.3	7234.6	6787.6	6211.9	5543.3
10°	6761.0	6791.5	6953.4	7095.3	7478.7	7701.5	7647.1	7278.4	6580.6	5703.8
12.5°	5974.4	5938.6	6054.0	6214.5	6660.2	7323.5	7818.2	7688.2	7002.5	5885.6
15°	5481.0	5466.4	5531.4	5605.7	5945.3	6613.8	7619.3	8021.2	7408.4	6100.5
17.5°	5323.1	5311.2	5331.1	5349.7	5569.9	6087.2	7145.7	8225.5	7797.0	6345.9
20°	5451.8	5435.9	5433.2	5418.6	5510.2	5863.0	6717.3	8240.1	8145.9	6568.7
22.5°	5827.2	5808.6	5743.6	5685.3	5693.2	5893.5	6526.3	8094.1	8408.5	6777.0
25°	6507.7	6477.2	6341.9	6145.6	6020.9	6105.8	6555.4	7901.8	8659.2	6940.1
27.5°	7359.3	7319.5	7145.7	6853.9	6568.7	6465.2	6766.3	7769.2	8867.5	7064.8
30°	8193.6	8141.9	7970.8	7744.0	7327.4	7001.1	7147.0	7827.5	9115.5	7194.8
32.5°	9094.3	9045.2	8818.4	8537.2	8192.3	7753.2	7668.3	8112.7	9419.3	7376.5
35°	10233.7	10156.8	9834.5	9451.1	9085.0	8640.7	8374.0	8604.8	9823.9	7653.8
37.5°	11531.0	11427.6	11080.0	10550.8	10073.2	9575.8	9233.6	9281.3	10416.8	8025.2
40°	12754.1	12659.9	12338.9	11840.1	11240.5	10637.0	10272.2	10166.1	11235.2	8477.5
42.5°	13487.6	13402.7	13267.4	13056.5	12551.1	11935.6	11475.3	11245.8	12203.6	9018.7
45°	13528.7	13454.4	13636.2	13881.6	13782.1	13372.2	12811.1	12390.6	13175.9	9526.7
47.5°	12870.8	12820.4	13372.2	14229.1	14656.2	14828.7	14311.3	13439.8	13978.4	9891.5
50°	11077.4	11058.8	12194.3	13767.5	14989.2	16104.7	15893.8	14416.1	14600.5	10079.9
52.5°	9605.0	9537.4	10199.3	12289.8	14505.0	16775.9	17440.5	15373.8	15035.6	10115.7
55°	7285.0	7225.3	8055.7	9817.2	12943.7	16537.2	18572.0	16362.1	15347.3	10024.2
57.5°	3907.8	3870.7	4919.9	6534.2	10118.3	15104.6	18776.2	17407.3	15610.0	9781.4
60°	1521.5	1514.8	1907.5	3170.3	6149.5	12288.5	17745.6	18034.7	15774.4	9483.0
62.5°	920.6	940.5	1004.1	1423.3	2716.6	7633.9	15369.9	17321.1	15884.5	9209.7
65°	761.4	762.7	770.7	977.6	1301.3	3194.2	11570.8	14973.2	15612.6	8722.9
67.5°	652.6	664.6	695.1	776.0	917.9	1400.8	6661.6	11598.7	13958.5	7590.1
70°	514.7	530.6	569.1	638.0	708.3	876.8	2461.9	7717.4	10663.5	5721.1
72.5°	433.8	432.4	452.3	518.7	562.4	616.8	947.1	4324.3	6197.3	2731.2
75°	335.6	348.9	374.1	433.8	460.3	447.0	513.3	1579.8	2220.5	827.7
77.5°	262.6	273.3	295.8	354.2	380.7	317.0	295.8	565.1	713.6	297.1
80°	118.1	127.3	201.6	261.3	310.4	218.9	160.5	289.2	317.0	135.3
82.5°	21.2	35.8	118.1	138.0	159.2	141.9	83.6	149.9	155.2	54.4
85°	1.3	2.7	41.1	50.4	63.7	46.4	25.2	59.7	51.7	18.6
87.5°	0.0	0.0	0.0	1.3	1.3	6.6	8.0	10.6	8.0	6.6
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°
5183.9	0°	5183.9	5183.9	5183.9	5183.9	5183.9	5183.9	5183.9	5183.9	5183.9	5183.9
5195.8	2.5°	5100.3	4911.9	4728.9	4579.0	4491.4	4342.9	4244.7	4228.8	4187.7	4223.5
5209.1	5°	5002.1	4665.2	4324.3	4019.2	3768.5	3444.9	3203.4	3101.3	3012.4	3042.9
5243.6	7.5°	4955.7	4423.8	3893.2	3371.9	2836.0	2318.7	1934.0	1773.5	1651.5	1668.7
5282.0	10°	4893.4	4173.1	3341.4	2545.5	1827.9	1317.2	1051.9	953.7	899.3	900.7
5339.1	12.5°	4845.6	3873.3	2700.7	1725.7	1112.9	841.0	758.7	734.9	718.9	720.3
5425.3	15°	4821.7	3520.5	2068.0	1150.1	795.9	712.3	692.4	681.8	671.2	669.9
5520.8	17.5°	4781.9	3127.8	1513.5	839.7	696.4	667.2	650.0	638.0	624.8	622.1
5603.0	20°	4722.2	2682.1	1106.3	709.7	652.6	630.1	606.2	590.3	574.4	571.7
5654.8	22.5°	4612.2	2211.2	850.3	656.6	620.8	595.6	566.4	547.8	531.9	529.3
5629.6	25°	4407.9	1769.5	716.3	623.4	592.9	562.4	530.6	505.4	490.8	488.1
5575.2	27.5°	4149.2	1390.1	650.0	592.9	557.1	529.3	493.4	469.6	456.3	453.7
5503.5	30°	3844.1	1070.5	611.5	558.4	514.7	490.8	459.0	439.1	431.1	431.1
5453.1	32.5°	3515.2	855.6	595.6	524.0	477.5	451.0	425.8	417.8	415.2	413.9
5481.0	35°	3206.1	742.8	587.6	496.1	444.4	419.2	408.6	409.9	415.2	415.2
5567.2	37.5°	2931.5	707.0	583.6	476.2	415.2	392.6	399.3	411.2	405.9	405.9
5718.4	40°	2683.5	711.0	581.0	461.6	391.3	378.0	391.3	382.0	368.8	367.4
5902.8	42.5°	2493.8	744.2	575.7	449.7	376.7	367.4	362.1	347.5	346.2	348.9
6093.8	45°	2355.8	773.3	574.4	444.4	360.8	343.6	336.9	322.3	348.9	355.5
6172.1	47.5°	2192.7	773.3	574.4	425.8	334.3	327.6	317.0	301.1	327.6	334.3
6097.8	50°	1981.8	724.3	551.8	404.6	313.0	309.1	290.5	270.6	265.3	269.3
5924.0	52.5°	1715.1	635.4	494.8	375.4	291.8	283.9	261.3	246.7	242.7	242.7
5612.3	55°	1411.4	531.9	417.8	332.9	269.3	254.7	238.8	232.1	228.2	225.5
5175.9	57.5°	1147.4	436.4	335.6	295.8	248.1	229.5	224.2	216.2	209.6	205.6
4811.1	60°	941.8	343.6	277.2	262.6	226.8	209.6	208.3	197.6	180.4	177.7
4510.0	62.5°	726.9	252.0	233.5	228.2	205.6	191.0	188.4	167.1	140.6	135.3
4082.9	65°	513.3	196.3	188.4	200.3	183.1	169.8	163.2	131.3	103.5	99.5
3417.0	67.5°	360.8	164.5	148.6	175.1	159.2	141.9	138.0	111.4	86.2	83.6
2584.0	70°	257.3	134.0	122.0	149.9	127.3	124.7	116.7	92.9	70.3	67.7
1278.7	72.5°	181.7	102.1	94.2	130.0	87.5	107.4	95.5	71.6	53.1	50.4
435.1	75°	134.0	73.0	66.3	75.6	63.7	80.9	67.7	47.8	33.2	31.8
196.3	77.5°	98.2	46.4	39.8	37.1	37.1	50.4	37.1	19.9	14.6	13.3
99.5	80°	69.0	21.2	18.6	15.9	14.6	11.9	5.3	2.7	1.3	1.3
34.5	82.5°	41.1	9.3	9.3	6.6	4.0	0.0	0.0	0.0	0.0	0.0
13.3	85°	9.3	4.0	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
5.3	87.5°	1.3	1.3	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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