

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: P953652

Luminaire Tested: **GALN-SB7A-927-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953652  
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-SB7A-927-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

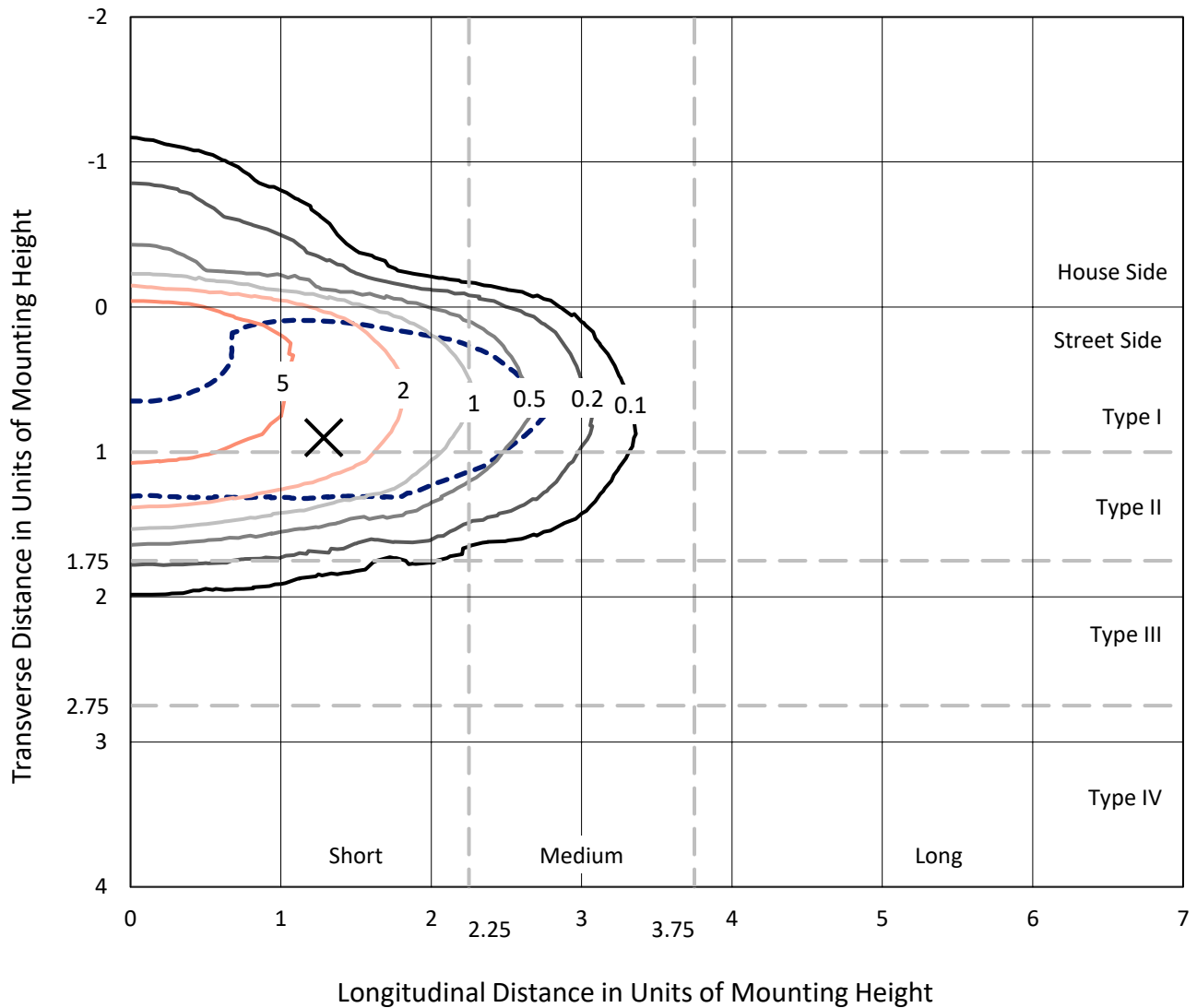
Lumens per Lamp: N/A  
Luminaire Lumens: 16556 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

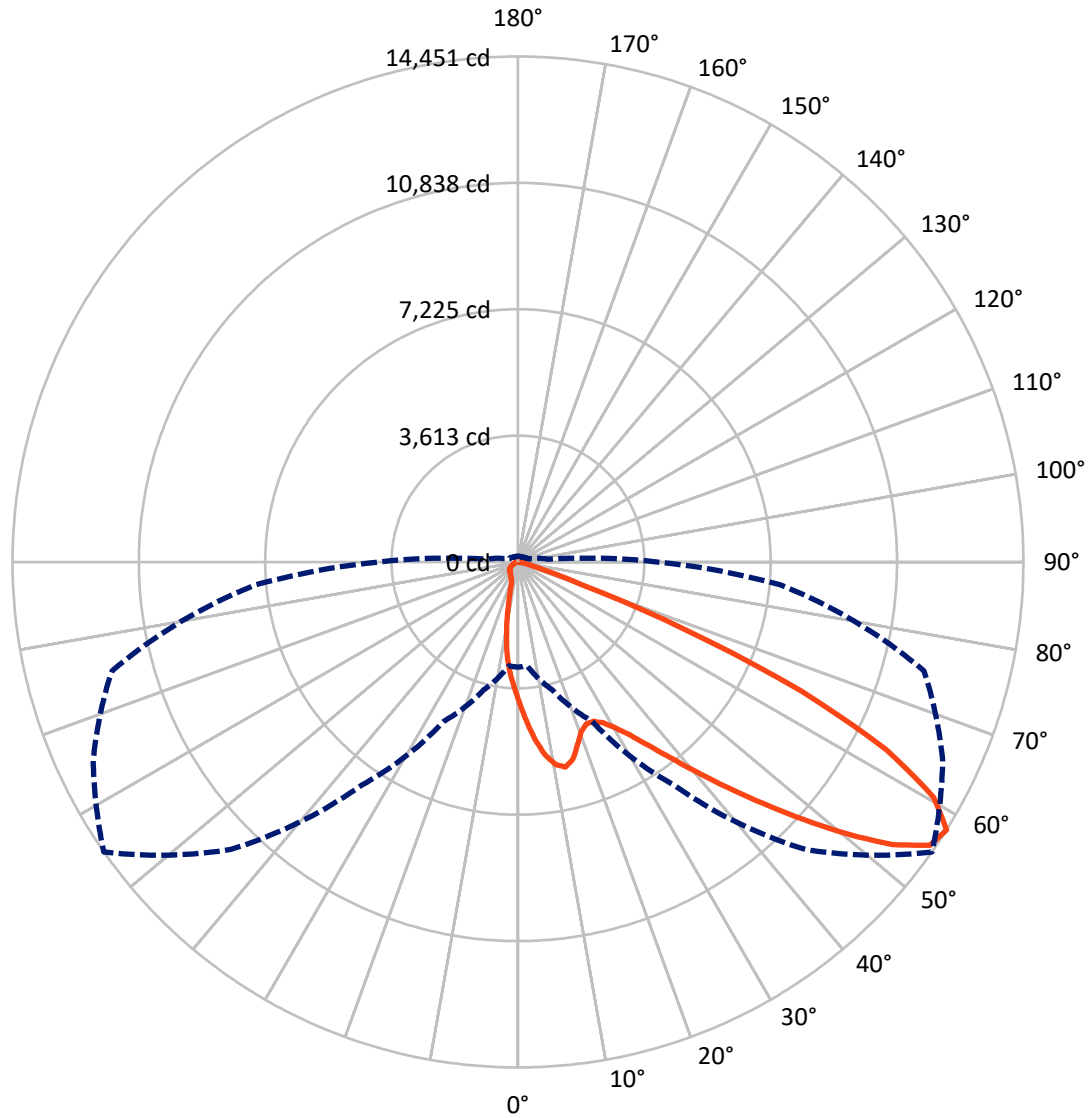
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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
<b>House Side</b>	Lumens	1293.0	0.0	1293.0
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	15263.0	0.0	15263.0
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	16556.0	0.0	16556.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.2	2.2
10°-20°	896.7	5.4
20°-30°	1434.6	8.7
30°-40°	2428.2	14.7
40°-50°	3986.6	24.1
50°-60°	4381.6	26.5
60°-70°	2513.3	15.2
70°-80°	513.5	3.1
80°-90°	30.3	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°	16556.0	100.0
0°-180°	16556.0	100.0

**Coefficient of Utilization**



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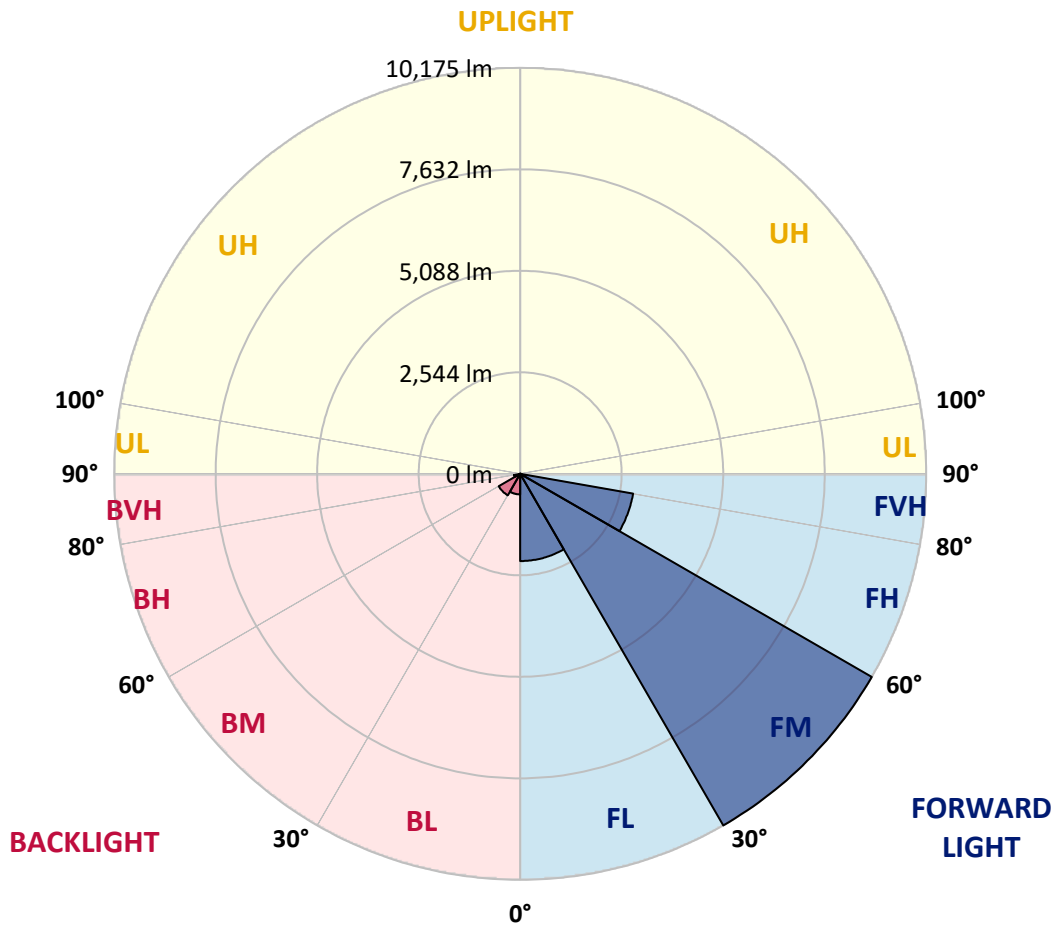
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2186.3	13.2			
FM (30°-60°)	10175.4	61.5			
FH (60°-80°)	2873.0	17.4			G2/5000
FVH (80°-90°)	28.2	0.2			G1/100
BL (0°-30°)	516.2	3.1	B2/1000		
BM (30°-60°)	621.0	3.8	B1/1000		
BH (60°-80°)	153.8	0.9	B1/500		G1/500
BVH (80°-90°)	2.0	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°	3989.6	3989.6	3989.6	3989.6	3989.6	3989.6	3989.6	3989.6	3989.6	3989.6
2.5°	4950.2	4888.0	4878.8	4866.5	4748.1	4659.3	4530.7	4389.8	4231.5	4070.2
5°	5719.0	5670.0	5660.8	5603.6	5468.8	5317.7	5089.1	4800.2	4505.1	4158.0
7.5°	5868.0	5858.8	5900.7	5898.6	5880.3	5760.8	5567.9	5223.8	4780.8	4266.2
10°	5203.4	5226.9	5351.4	5460.7	5755.7	5927.2	5885.4	5601.6	5064.6	4389.8
12.5°	4598.0	4570.5	4659.3	4782.8	5125.8	5636.3	6017.1	5917.0	5389.2	4529.6
15°	4218.3	4207.0	4257.1	4314.2	4575.6	5090.1	5863.9	6173.2	5701.6	4695.0
17.5°	4096.8	4087.6	4102.9	4117.2	4286.7	4684.8	5499.5	6330.5	6000.7	4883.9
20°	4195.8	4183.6	4181.5	4170.3	4240.7	4512.3	5169.7	6341.7	6269.2	5055.4
22.5°	4484.7	4470.4	4420.4	4375.5	4381.6	4535.8	5022.7	6229.4	6471.3	5215.7
25°	5008.4	4984.9	4880.8	4729.7	4633.8	4699.1	5045.2	6081.4	6664.3	5341.2
27.5°	5663.8	5633.2	5499.5	5274.9	5055.4	4975.8	5207.5	5979.3	6824.6	5437.2
30°	6306.0	6266.1	6134.5	5959.9	5639.3	5388.2	5500.5	6024.2	7015.5	5537.2
32.5°	6999.1	6961.4	6786.8	6570.4	6304.9	5967.0	5901.7	6243.7	7249.2	5677.1
35°	7876.1	7816.9	7568.8	7273.7	6992.0	6650.0	6444.8	6622.4	7560.6	5890.5
37.5°	8874.5	8794.9	8527.4	8120.1	7752.5	7369.7	7106.3	7143.1	8016.9	6176.3
40°	9815.7	9743.3	9496.2	9112.3	8650.9	8186.4	7905.7	7824.0	8646.8	6524.4
42.5°	10380.3	10314.9	10210.8	10048.5	9659.5	9185.9	8831.6	8655.0	9392.1	6940.9
45°	10411.9	10354.8	10494.6	10683.5	10606.9	10291.5	9859.6	9536.0	10140.4	7331.9
47.5°	9905.6	9866.8	10291.5	10950.9	11279.7	11412.4	11014.2	10343.5	10758.0	7612.7
50°	8525.3	8511.1	9384.9	10595.7	11535.9	12394.5	12232.2	11094.9	11236.8	7757.6
52.5°	7392.2	7340.1	7849.5	9458.4	11163.3	12911.0	13422.5	11832.0	11571.6	7785.2
55°	5606.7	5560.7	6199.8	7555.5	9961.7	12727.3	14293.3	12592.5	11811.5	7714.8
57.5°	3007.5	2978.9	3786.4	5028.8	7787.3	11624.7	14450.5	13397.0	12013.7	7527.9
60°	1170.9	1165.8	1468.0	2439.9	4732.8	9457.4	13657.3	13879.8	12140.3	7298.3
62.5°	708.5	723.8	772.8	1095.4	2090.8	5875.1	11828.9	13330.6	12225.0	7088.0
65°	586.0	587.0	593.1	752.4	1001.5	2458.3	8905.1	11523.7	12015.7	6713.3
67.5°	502.3	511.5	534.9	597.2	706.4	1078.0	5126.8	8926.5	10742.7	5841.5
70°	396.1	408.4	438.0	491.0	545.1	674.8	1894.7	5939.5	8206.8	4403.0
72.5°	333.8	332.8	348.1	399.2	432.9	474.7	728.9	3328.1	4769.5	2102.0
75°	258.3	268.5	287.9	333.8	354.2	344.0	395.1	1215.9	1708.9	637.0
77.5°	202.1	210.3	227.7	272.6	293.0	244.0	227.7	434.9	549.2	228.7
80°	90.9	98.0	155.2	201.1	238.9	168.4	123.5	222.6	244.0	104.1
82.5°	16.3	27.6	90.9	106.2	122.5	109.2	64.3	115.4	119.4	41.9
85°	1.0	2.0	31.6	38.8	49.0	35.7	19.4	45.9	39.8	14.3
87.5°	0.0	0.0	0.0	1.0	1.0	5.1	6.1	8.2	6.1	5.1
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°
3989.6	0°	3989.6	3989.6	3989.6	3989.6	3989.6	3989.6	3989.6	3989.6	3989.6	3989.6
3998.8	2.5°	3925.3	3780.3	3639.4	3524.1	3456.7	3342.4	3266.8	3254.6	3222.9	3250.5
4009.0	5°	3849.7	3590.4	3328.1	3093.3	2900.3	2651.2	2465.4	2386.8	2318.4	2341.9
4035.5	7.5°	3814.0	3404.6	2996.3	2595.1	2182.6	1784.5	1488.4	1364.9	1271.0	1284.3
4065.1	10°	3766.0	3211.7	2571.6	1959.1	1406.8	1013.7	809.6	734.0	692.2	693.2
4109.0	12.5°	3729.3	2981.0	2078.5	1328.2	856.5	647.2	583.9	565.6	553.3	554.3
4175.4	15°	3710.9	2709.4	1591.5	885.1	612.5	548.2	532.9	524.7	516.6	515.5
4248.9	17.5°	3680.3	2407.2	1164.8	646.2	536.0	513.5	500.2	491.0	480.8	478.8
4312.2	20°	3634.3	2064.2	851.4	546.2	502.3	484.9	466.5	454.3	442.0	440.0
4352.0	22.5°	3549.6	1701.8	654.4	505.3	477.8	458.4	435.9	421.6	409.4	407.3
4332.6	25°	3392.4	1361.9	551.3	479.8	456.3	432.9	408.4	389.0	377.7	375.7
4290.7	27.5°	3193.3	1069.9	500.2	456.3	428.8	407.3	379.8	361.4	351.2	349.1
4235.6	30°	2958.5	823.8	470.6	429.8	396.1	377.7	353.2	337.9	331.8	331.8
4196.8	32.5°	2705.3	658.5	458.4	403.2	367.5	347.1	327.7	321.6	319.5	318.5
4218.3	35°	2467.5	571.7	452.2	381.8	342.0	322.6	314.4	315.5	319.5	319.5
4284.6	37.5°	2256.1	544.1	449.2	366.5	319.5	302.2	307.3	316.5	312.4	312.4
4401.0	40°	2065.2	547.2	447.1	355.3	301.2	290.9	301.2	294.0	283.8	282.8
4542.9	42.5°	1919.2	572.7	443.1	346.1	289.9	282.8	278.7	267.5	266.4	268.5
4689.9	45°	1813.1	595.2	442.0	342.0	277.7	264.4	259.3	248.1	268.5	273.6
4750.1	47.5°	1687.5	595.2	442.0	327.7	257.3	252.2	244.0	231.7	252.2	257.3
4693.0	50°	1525.2	557.4	424.7	311.4	240.9	237.9	223.6	208.3	204.2	207.2
4559.2	52.5°	1320.0	489.0	380.8	288.9	224.6	218.5	201.1	189.9	186.8	186.8
4319.3	55°	1086.2	409.4	321.6	256.2	207.2	196.0	183.8	178.7	175.6	173.5
3983.5	57.5°	883.1	335.9	258.3	227.7	190.9	176.6	172.5	166.4	161.3	158.2
3702.7	60°	724.8	264.4	213.4	202.1	174.6	161.3	160.3	152.1	138.8	136.8
3471.0	62.5°	559.4	194.0	179.7	175.6	158.2	147.0	145.0	128.6	108.2	104.1
3142.3	65°	395.1	151.1	145.0	154.2	140.9	130.7	125.6	101.1	79.6	76.6
2629.8	67.5°	277.7	126.6	114.3	134.8	122.5	109.2	106.2	85.8	66.4	64.3
1988.7	70°	198.1	103.1	93.9	115.4	98.0	96.0	89.8	71.5	54.1	52.1
984.1	72.5°	139.9	78.6	72.5	100.0	67.4	82.7	73.5	55.1	40.8	38.8
334.8	75°	103.1	56.1	51.0	58.2	49.0	62.3	52.1	36.8	25.5	24.5
151.1	77.5°	75.5	35.7	30.6	28.6	28.6	38.8	28.6	15.3	11.2	10.2
76.6	80°	53.1	16.3	14.3	12.3	11.2	9.2	4.1	2.0	1.0	1.0
26.5	82.5°	31.6	7.1	7.1	5.1	3.1	0.0	0.0	0.0	0.0	0.0
10.2	85°	7.1	3.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
4.1	87.5°	1.0	1.0	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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