

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: P954912

Luminaire Tested: **GALN-SB8A-740-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954912  
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-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

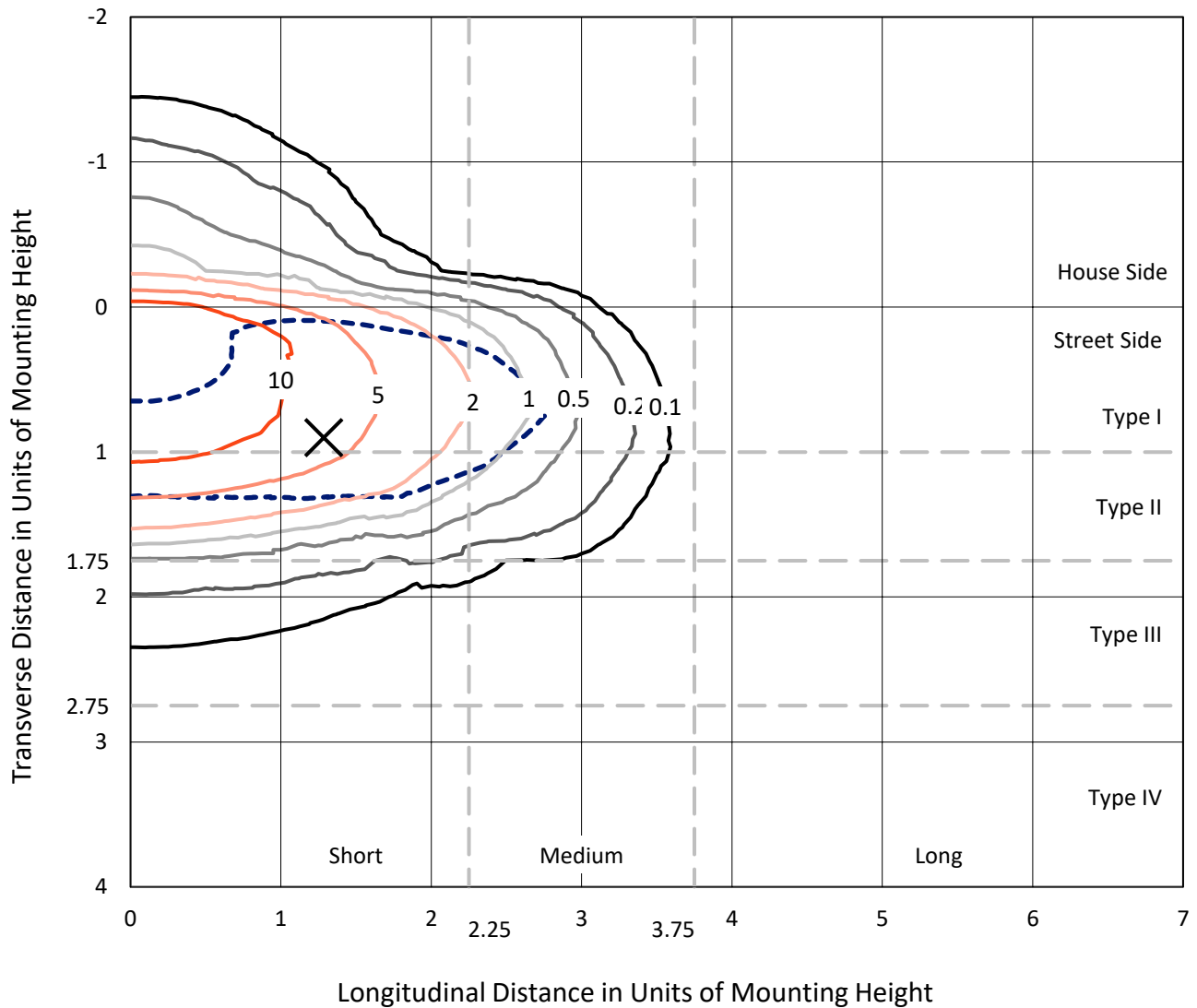
Lumens per Lamp: N/A  
Luminaire Lumens: 32720 lumens  
Efficiency: N/A  
Efficacy: 144.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

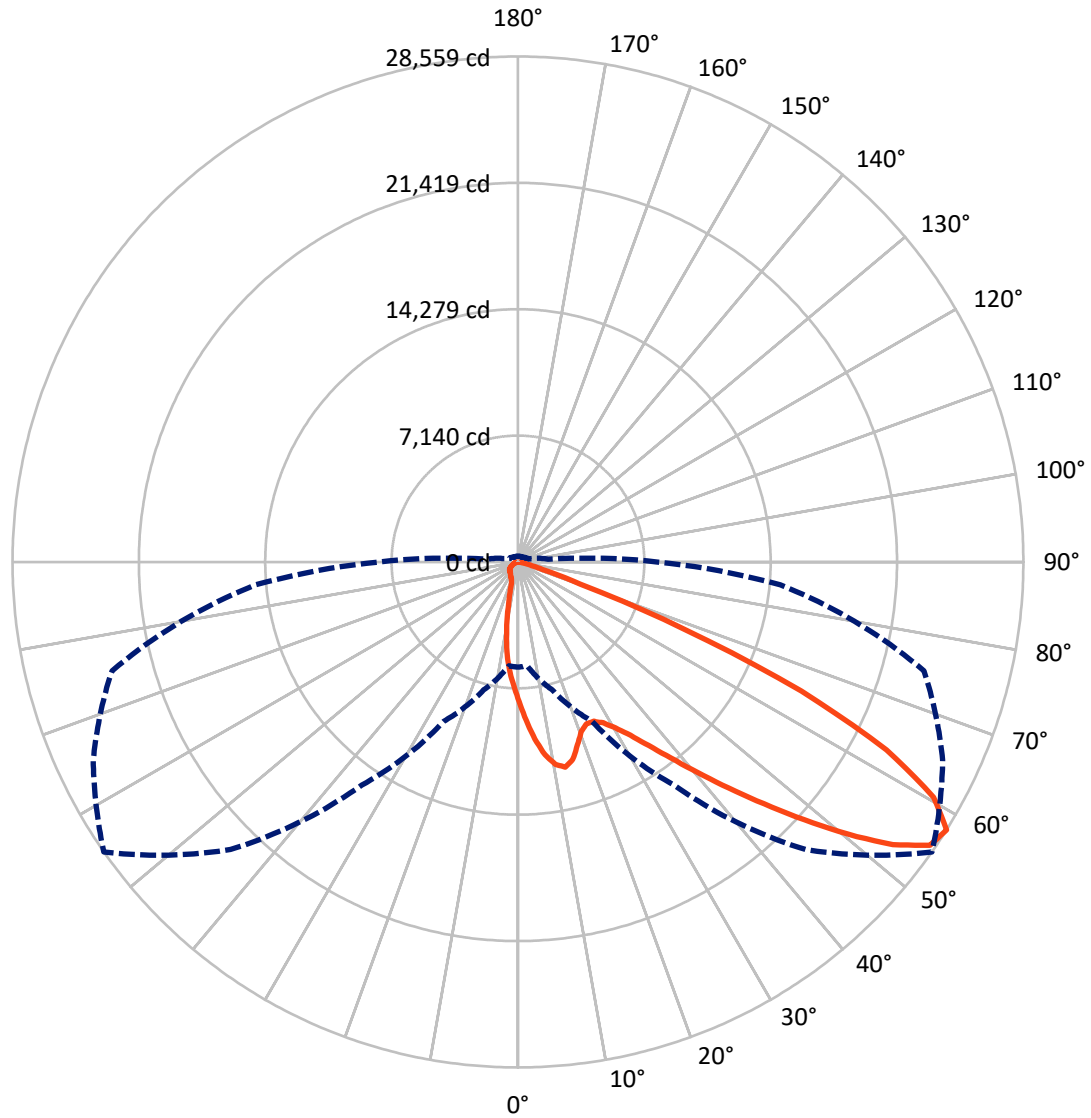
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 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	2555.3	0.0	2555.3
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	30164.7	0.0	30164.7
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	32720.0	0.0	32720.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	733.6	2.2
10°-20°	1772.1	5.4
20°-30°	2835.3	8.7
30°-40°	4798.9	14.7
40°-50°	7878.8	24.1
50°-60°	8659.4	26.5
60°-70°	4967.0	15.2
70°-80°	1014.9	3.1
80°-90°	59.9	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°	32720.0	100.0
0°-180°	32720.0	100.0

**Coefficient of Utilization**



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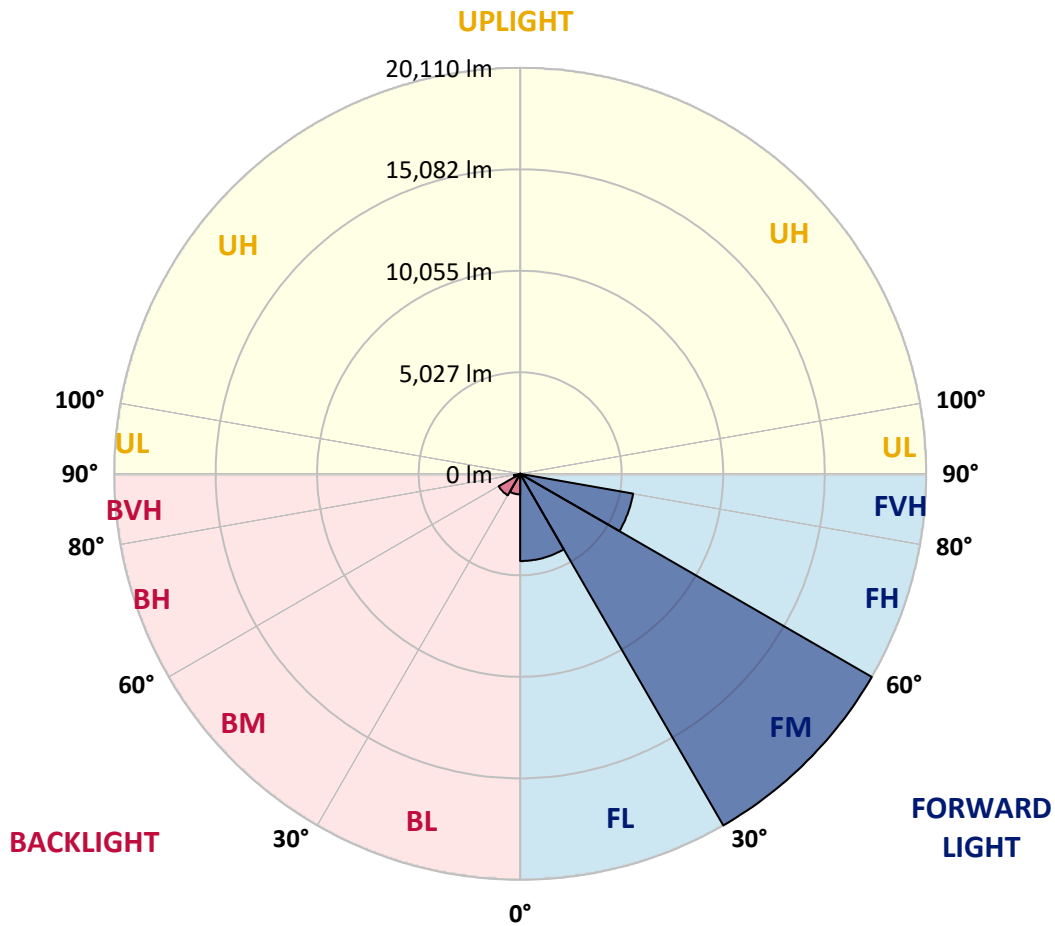
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4320.9	13.2			
FM (30°-60°)	20110.0	61.5			
FH (60°-80°)	5678.0	17.4			G3/7500
FVH (80°-90°)	55.8	0.2			G1/100
BL (0°-30°)	1020.1	3.1	B3/2500		
BM (30°-60°)	1227.2	3.8	B2/2500		
BH (60°-80°)	303.9	0.9	B1/500		G1/500
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7884.7	7884.7	7884.7	7884.7	7884.7	7884.7	7884.7	7884.7	7884.7	7884.7
2.5°	9783.3	9660.2	9642.0	9617.8	9383.8	9208.2	8954.0	8675.6	8362.9	8044.1
5°	11302.5	11205.7	11187.5	11074.5	10808.2	10509.6	10057.7	9486.7	8903.6	8217.6
7.5°	11597.1	11578.9	11661.6	11657.6	11621.3	11385.2	11003.9	10324.0	9448.3	8431.5
10°	10283.6	10330.0	10576.2	10792.1	11375.1	11714.1	11631.4	11070.5	10009.2	8675.6
12.5°	9087.2	9032.7	9208.2	9452.4	10130.3	11139.1	11891.6	11693.9	10650.8	8952.0
15°	8336.7	8314.5	8413.3	8526.3	9042.8	10059.7	11589.0	12200.3	11268.2	9278.9
17.5°	8096.6	8078.4	8108.7	8136.9	8471.8	9258.7	10868.7	12511.0	11859.4	9652.1
20°	8292.3	8268.1	8264.0	8241.8	8381.0	8917.7	10217.0	12533.2	12390.0	9991.1
22.5°	8863.2	8835.0	8736.1	8647.4	8659.5	8964.1	9926.5	12311.3	12789.5	10307.8
25°	9898.3	9851.9	9646.1	9347.5	9157.8	9286.9	9970.9	12018.7	13170.8	10556.0
27.5°	11193.5	11133.0	10868.7	10424.9	9991.1	9833.7	10291.7	11817.0	13487.5	10745.6
30°	12462.6	12383.9	12123.7	11778.6	11145.1	10648.8	10870.7	11905.8	13864.8	10943.4
32.5°	13832.5	13757.9	13412.9	12985.2	12460.6	11792.8	11663.6	12339.5	14326.9	11219.8
35°	15565.7	15448.6	14958.4	14375.3	13818.4	13142.5	12737.0	13088.1	14942.2	11641.5
37.5°	17538.8	17381.5	16852.9	16047.9	15321.5	14564.9	14044.4	14117.0	15844.1	12206.4
40°	19399.1	19255.8	18767.6	18008.9	17097.0	16179.0	15624.2	15462.8	17088.9	12894.4
42.5°	20514.8	20385.7	20179.9	19859.1	19090.4	18154.2	17454.1	17105.1	18561.8	13717.5
45°	20577.3	20464.3	20740.8	21114.0	20962.7	20339.3	19485.8	18846.2	20040.6	14490.3
47.5°	19576.6	19499.9	20339.3	21642.6	22292.3	22554.6	21767.7	20442.1	21261.3	15045.1
50°	16848.8	16820.6	18547.6	20940.5	22798.7	24495.5	24174.7	21927.1	22207.5	15331.6
52.5°	14609.3	14506.4	15513.2	18692.9	22062.3	25516.4	26527.2	23383.8	22869.3	15386.1
55°	11080.6	10989.8	12252.8	14932.1	19687.6	25153.2	28248.2	24886.9	23343.4	15246.9
57.5°	5943.8	5887.3	7483.2	9938.6	15390.1	22974.2	28558.9	26476.7	23742.9	14877.7
60°	2314.2	2304.1	2901.3	4822.0	9353.5	18690.9	26991.2	27431.1	23993.1	14423.7
62.5°	1400.2	1430.5	1527.3	2164.9	4132.0	11611.2	23377.7	26345.6	24160.6	14008.1
65°	1158.1	1160.1	1172.2	1487.0	1979.2	4858.3	17599.4	22774.5	23746.9	13267.6
67.5°	992.7	1010.8	1057.2	1180.3	1396.2	2130.6	10132.3	17641.7	21231.0	11544.6
70°	782.8	807.0	865.5	970.5	1077.4	1333.6	3744.6	11738.3	16219.3	8701.8
72.5°	659.7	657.7	688.0	788.9	855.5	938.2	1440.6	6577.3	9426.1	4154.2
75°	510.4	530.6	569.0	659.7	700.1	679.9	780.8	2402.9	3377.4	1259.0
77.5°	399.5	415.6	449.9	538.7	579.0	482.2	449.9	859.5	1085.5	451.9
80°	179.6	193.7	306.7	397.5	472.1	332.9	244.1	439.8	482.2	205.8
82.5°	32.3	54.5	179.6	209.8	242.1	215.9	127.1	228.0	236.1	82.7
85°	2.0	4.0	62.5	76.7	96.8	70.6	38.3	90.8	78.7	28.2
87.5°	0.0	0.0	0.0	2.0	2.0	10.1	12.1	16.1	12.1	10.1
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°
7884.7	0°	7884.7	7884.7	7884.7	7884.7	7884.7	7884.7	7884.7	7884.7	7884.7	7884.7
7902.9	2.5°	7757.6	7471.1	7192.7	6964.7	6831.5	6605.6	6456.3	6432.1	6369.5	6424.0
7923.0	5°	7608.3	7095.8	6577.3	6113.3	5732.0	5239.7	4872.5	4717.1	4581.9	4628.3
7975.5	7.5°	7537.7	6728.6	5921.6	5128.7	4313.6	3526.7	2941.6	2697.5	2511.9	2538.1
8034.0	10°	7442.9	6347.3	5082.3	3871.7	2780.2	2003.5	1599.9	1450.6	1367.9	1369.9
8120.8	12.5°	7370.2	5891.3	4107.8	2624.9	1692.8	1279.1	1154.1	1117.7	1093.5	1095.5
8251.9	15°	7333.9	5354.7	3145.4	1749.2	1210.5	1083.4	1053.2	1037.0	1020.9	1018.9
8397.2	17.5°	7273.4	4757.5	2302.1	1277.1	1059.2	1014.8	988.6	970.5	950.3	946.2
8522.3	20°	7182.6	4079.6	1682.7	1079.4	992.7	958.4	922.0	897.8	873.6	869.6
8601.0	22.5°	7015.1	3363.3	1293.3	998.7	944.2	905.9	861.5	833.3	809.1	805.0
8562.6	25°	6704.4	2691.5	1089.5	948.3	901.9	855.5	807.0	768.7	746.5	742.5
8479.9	27.5°	6311.0	2114.4	988.6	901.9	847.4	805.0	750.5	714.2	694.0	690.0
8371.0	30°	5847.0	1628.2	930.1	849.4	782.8	746.5	698.1	667.8	655.7	655.7
8294.3	32.5°	5346.6	1301.3	905.9	796.9	726.3	686.0	647.6	635.5	631.5	629.5
8336.7	35°	4876.5	1129.8	893.8	754.6	675.9	637.6	621.4	623.4	631.5	631.5
8467.8	37.5°	4458.9	1075.4	887.7	724.3	631.5	597.2	607.3	625.5	617.4	617.4
8697.8	40°	4081.6	1081.4	883.7	702.1	595.2	575.0	595.2	581.1	560.9	558.9
8978.2	42.5°	3793.1	1131.9	875.6	684.0	573.0	558.9	550.8	528.6	526.6	530.6
9268.8	45°	3583.2	1176.3	873.6	675.9	548.8	522.6	512.5	490.3	530.6	540.7
9387.8	47.5°	3335.1	1176.3	873.6	647.6	508.4	498.3	482.2	458.0	498.3	508.4
9274.8	50°	3014.3	1101.6	839.3	615.4	476.1	470.1	441.9	411.6	403.5	409.6
9010.5	52.5°	2608.7	966.4	752.6	571.0	443.9	431.8	397.5	375.3	369.2	369.2
8536.4	55°	2146.7	809.1	635.5	506.4	409.6	387.4	363.2	353.1	347.0	343.0
7872.6	57.5°	1745.2	663.8	510.4	449.9	377.3	349.0	341.0	328.9	318.8	312.7
7317.8	60°	1432.5	522.6	421.7	399.5	345.0	318.8	316.8	300.6	274.4	270.4
6859.8	62.5°	1105.6	383.3	355.1	347.0	312.7	290.5	286.5	254.2	213.9	205.8
6210.1	65°	780.8	298.6	286.5	304.7	278.4	258.3	248.2	199.7	157.4	151.3
5197.3	67.5°	548.8	250.2	226.0	266.3	242.1	215.9	209.8	169.5	131.1	127.1
3930.3	70°	391.4	203.8	185.6	228.0	193.7	189.7	177.5	141.2	106.9	102.9
1944.9	72.5°	276.4	155.4	143.2	197.7	133.2	163.4	145.3	108.9	80.7	76.7
661.8	75°	203.8	111.0	100.9	115.0	96.8	123.1	102.9	72.6	50.4	48.4
298.6	77.5°	149.3	70.6	60.5	56.5	56.5	76.7	56.5	30.3	22.2	20.2
151.3	80°	104.9	32.3	28.2	24.2	22.2	18.2	8.1	4.0	2.0	2.0
52.5	82.5°	62.5	14.1	14.1	10.1	6.1	0.0	0.0	0.0	0.0	0.0
20.2	85°	14.1	6.1	6.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
8.1	87.5°	2.0	2.0	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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