

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: P956340

Luminaire Tested: **GALN-SB9A-740-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956340  
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-SB9A-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

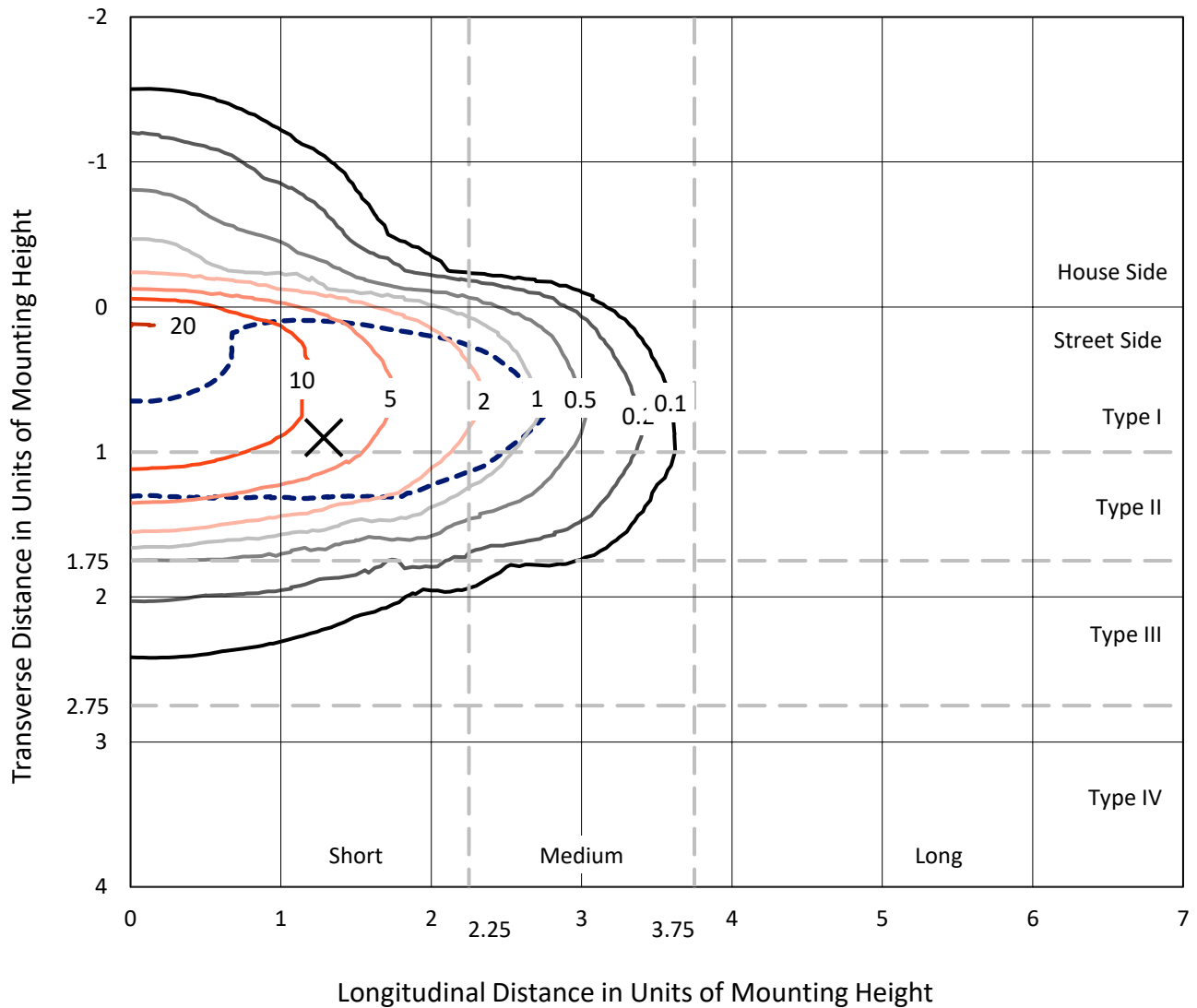
Lumens per Lamp: N/A  
Luminaire Lumens: 36856 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

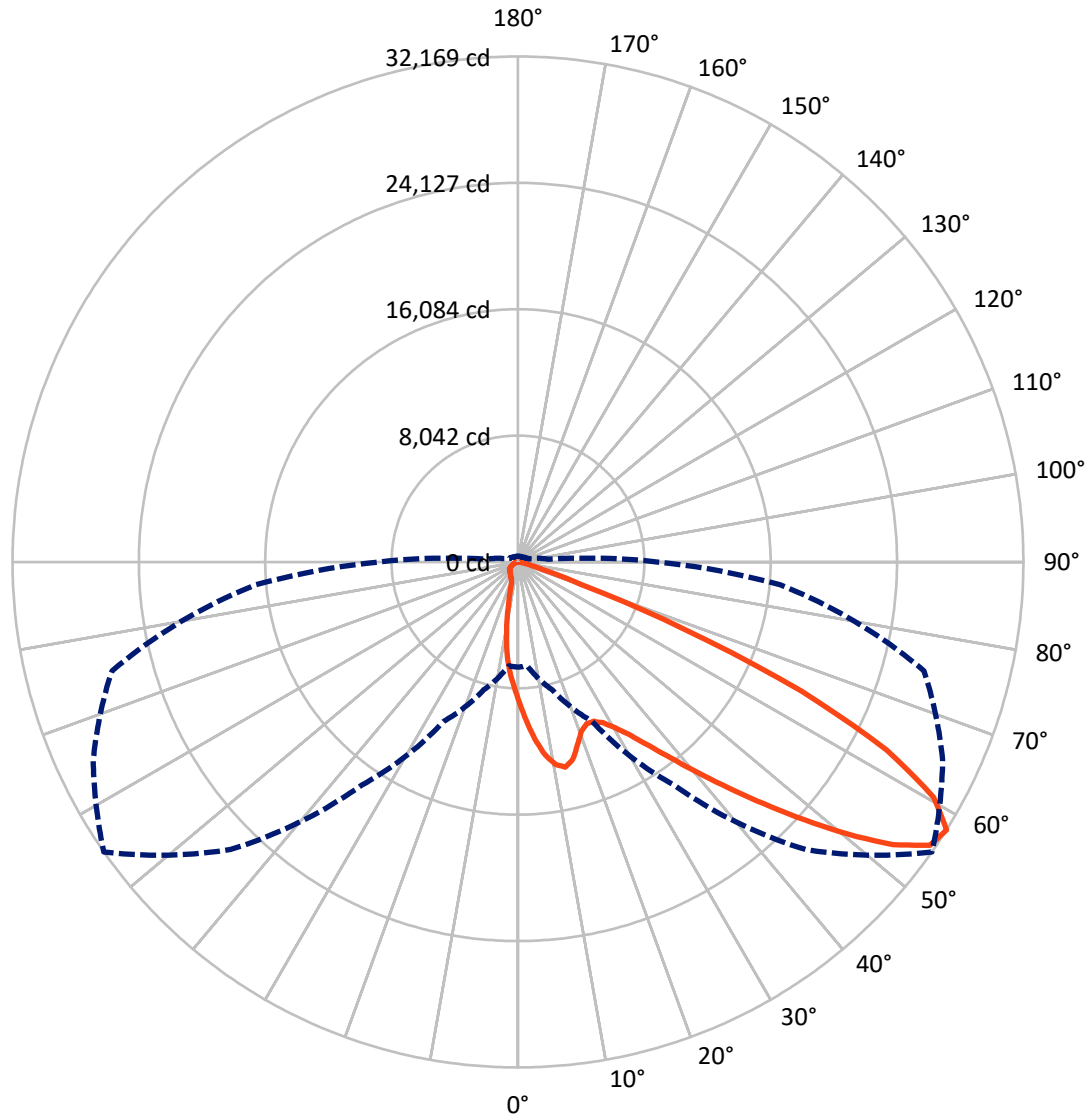
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 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
<b>House Side</b>	Lumens	2878.3	0.0	2878.3
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	33977.7	0.0	33977.7
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	36856.0	0.0	36856.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	826.4	2.2
10°-20°	1996.1	5.4
20°-30°	3193.7	8.7
30°-40°	5405.6	14.7
40°-50°	8874.8	24.1
50°-60°	9754.0	26.5
60°-70°	5594.9	15.2
70°-80°	1143.2	3.1
80°-90°	67.4	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°	36856.0	100.0
0°-180°	36856.0	100.0

**Coefficient of Utilization**



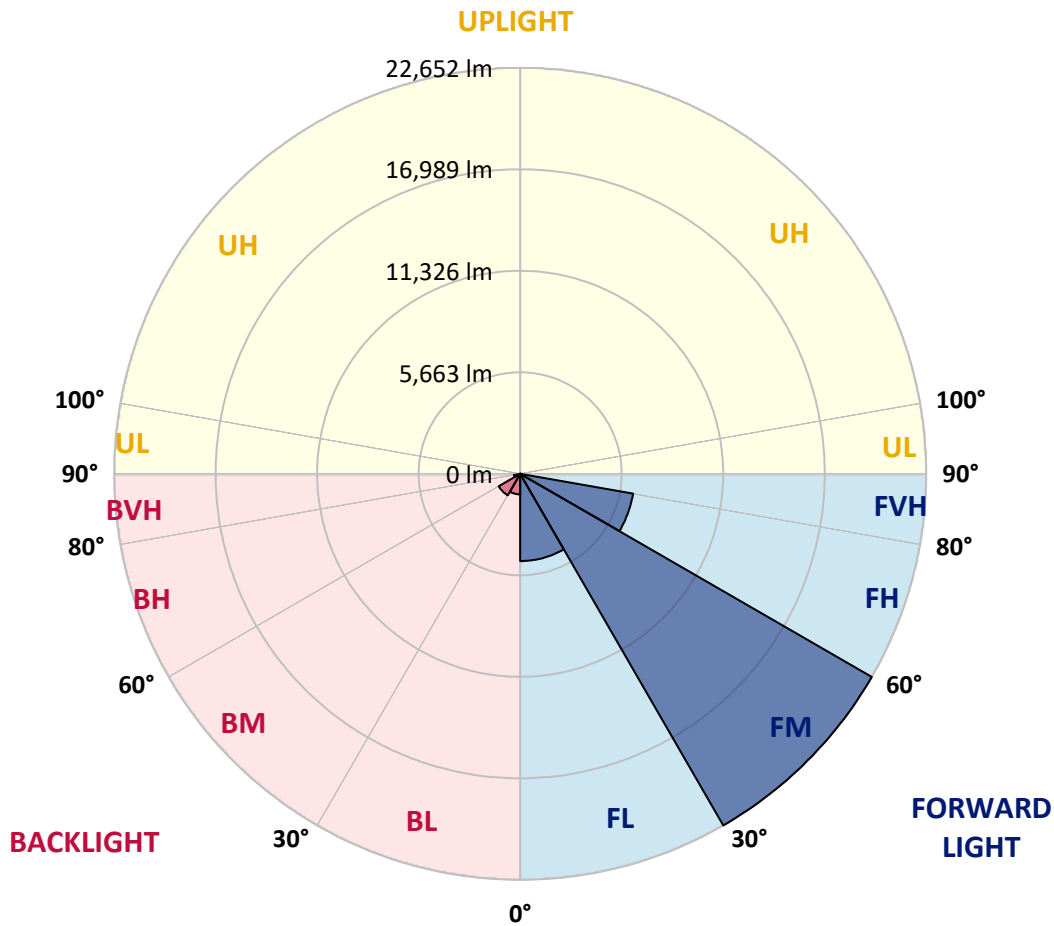
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4867.1	13.2			
FM (30°-60°)	22652.0	61.5			
FH (60°-80°)	6395.8	17.4			G3/7500
FVH (80°-90°)	62.9	0.2			G1/100
BL (0°-30°)	1149.1	3.1	B3/2500		
BM (30°-60°)	1382.3	3.8	B2/2500		
BH (60°-80°)	342.3	0.9	B1/500		G1/500
BVH (80°-90°)	4.5	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°	8881.4	8881.4	8881.4	8881.4	8881.4	8881.4	8881.4	8881.4	8881.4	8881.4
2.5°	11019.9	10881.3	10860.8	10833.6	10569.9	10372.2	10085.9	9772.3	9420.0	9060.9
5°	12731.2	12622.1	12601.7	12474.4	12174.4	11838.1	11329.0	10685.8	10029.1	9256.4
7.5°	13063.0	13042.5	13135.7	13131.2	13090.3	12824.4	12394.9	11629.0	10642.7	9497.3
10°	11583.5	11635.8	11913.1	12156.2	12813.0	13194.8	13101.6	12469.9	11274.5	9772.3
12.5°	10235.9	10174.5	10372.2	10647.2	11410.8	12547.1	13394.8	13172.1	11997.1	10083.6
15°	9390.5	9365.5	9476.8	9604.1	10185.9	11331.3	13053.9	13742.5	12692.6	10451.8
17.5°	9120.0	9099.6	9133.6	9165.5	9542.7	10429.0	12242.6	14092.5	13358.4	10872.2
20°	9340.5	9313.2	9308.6	9283.6	9440.5	10045.0	11508.5	14117.5	13956.1	11254.0
22.5°	9983.6	9951.8	9840.4	9740.4	9754.1	10097.2	11181.3	13867.5	14406.1	11610.8
25°	11149.5	11097.2	10865.4	10529.0	10315.4	10460.9	11231.3	13538.0	14835.6	11890.3
27.5°	12608.5	12540.3	12242.6	11742.6	11254.0	11076.7	11592.6	13310.7	15192.4	12104.0
30°	14038.0	13949.3	13656.2	13267.5	12553.9	11994.9	12244.9	13410.7	15617.4	12326.7
32.5°	15581.1	15497.0	15108.4	14626.6	14035.7	13283.4	13138.0	13899.3	16137.9	12638.0
35°	17533.2	17401.4	16849.2	16192.4	15565.2	14803.8	14347.0	14742.5	16831.0	13113.0
37.5°	19755.9	19578.6	18983.2	18076.4	17258.3	16406.0	15819.7	15901.5	17846.9	13749.3
40°	21851.2	21689.9	21139.9	20285.4	19258.2	18224.1	17599.1	17417.3	19249.1	14524.3
42.5°	23108.0	22962.5	22730.7	22369.4	21503.5	20449.0	19660.4	19267.2	20908.1	15451.5
45°	23178.4	23051.2	23362.5	23782.9	23612.5	22910.3	21948.9	21228.5	22573.9	16321.9
47.5°	22051.2	21964.8	22910.3	24378.4	25110.1	25405.6	24519.3	23026.2	23948.8	16946.9
50°	18978.6	18946.8	20892.2	23587.5	25680.6	27591.8	27230.5	24698.8	25014.7	17269.6
52.5°	16456.0	16340.1	17474.2	21055.8	24851.1	28741.8	29880.4	26339.6	25760.1	17331.0
55°	12481.2	12378.9	13801.6	16819.6	22176.2	28332.7	31818.9	28032.7	26294.2	17174.2
57.5°	6695.1	6631.5	8429.1	11194.9	17335.5	25878.3	32168.9	29823.6	26744.2	16758.3
60°	2606.7	2595.3	3268.0	5431.6	10535.9	21053.5	30403.1	30898.5	27026.0	16246.9
62.5°	1577.2	1611.3	1720.4	2438.5	4654.3	13078.9	26332.8	29675.8	27214.6	15778.8
65°	1304.5	1306.8	1320.4	1674.9	2229.4	5472.5	19824.0	25653.3	26748.7	14944.7
67.5°	1118.1	1138.6	1190.9	1329.5	1572.7	2399.9	11413.1	19871.8	23914.7	13003.9
70°	881.8	909.0	975.0	1093.1	1213.6	1502.2	4218.0	13222.1	18269.6	9801.8
72.5°	743.1	740.9	775.0	888.6	963.6	1056.8	1622.6	7408.7	10617.7	4679.3
75°	575.0	597.7	640.9	743.1	788.6	765.9	879.5	2706.7	3804.4	1418.1
77.5°	450.0	468.2	506.8	606.8	652.2	543.2	506.8	968.1	1222.7	509.1
80°	202.3	218.2	345.4	447.7	531.8	375.0	275.0	495.4	543.2	231.8
82.5°	36.4	61.4	202.3	236.4	272.7	243.2	143.2	256.8	265.9	93.2
85°	2.3	4.5	70.5	86.4	109.1	79.5	43.2	102.3	88.6	31.8
87.5°	0.0	0.0	0.0	2.3	2.3	11.4	13.6	18.2	13.6	11.4
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°
8881.4	0°	8881.4	8881.4	8881.4	8881.4	8881.4	8881.4	8881.4	8881.4	8881.4	8881.4
8901.8	2.5°	8738.2	8415.5	8101.9	7845.1	7695.1	7440.5	7272.4	7245.1	7174.7	7236.0
8924.6	5°	8570.0	7992.8	7408.7	6886.0	6456.5	5902.0	5488.4	5313.4	5161.1	5213.4
8983.7	7.5°	8490.5	7579.2	6670.1	5777.0	4858.9	3972.5	3313.5	3038.5	2829.4	2859.0
9049.6	10°	8383.7	7149.7	5724.7	4361.2	3131.7	2256.7	1802.2	1634.0	1540.8	1543.1
9147.3	12.5°	8301.9	6636.0	4627.0	2956.7	1906.7	1440.8	1299.9	1259.0	1231.8	1234.0
9295.0	15°	8261.0	6031.5	3543.0	1970.4	1363.6	1220.4	1186.3	1168.1	1149.9	1147.7
9458.6	17.5°	8192.8	5358.8	2593.1	1438.6	1193.1	1143.1	1113.6	1093.1	1070.4	1065.9
9599.5	20°	8090.5	4595.2	1895.4	1215.9	1118.1	1079.5	1038.6	1011.3	984.0	979.5
9688.2	22.5°	7901.9	3788.5	1456.7	1124.9	1063.6	1020.4	970.4	938.6	911.3	906.8
9645.0	25°	7551.9	3031.7	1227.2	1068.1	1015.9	963.6	909.0	865.9	840.9	836.3
9551.8	27.5°	7108.7	2381.7	1113.6	1015.9	954.5	906.8	845.4	804.5	781.8	777.2
9429.1	30°	6586.0	1834.0	1047.7	956.8	881.8	840.9	786.3	752.2	738.6	738.6
9342.7	32.5°	6022.4	1465.8	1020.4	897.7	818.1	772.7	729.5	715.9	711.3	709.1
9390.5	35°	5492.9	1272.7	1006.8	850.0	761.3	718.1	700.0	702.2	711.3	711.3
9538.2	37.5°	5022.5	1211.3	1000.0	815.9	711.3	672.7	684.1	704.5	695.4	695.4
9797.3	40°	4597.5	1218.1	995.4	790.9	670.4	647.7	670.4	654.5	631.8	629.5
10113.1	42.5°	4272.5	1274.9	986.3	770.4	645.4	629.5	620.4	595.4	593.2	597.7
10440.4	45°	4036.2	1324.9	984.0	761.3	618.2	588.6	577.2	552.2	597.7	609.1
10574.5	47.5°	3756.6	1324.9	984.0	729.5	572.7	561.3	543.2	515.9	561.3	572.7
10447.2	50°	3395.3	1240.8	945.4	693.1	536.3	529.5	497.7	463.6	454.5	461.3
10149.5	52.5°	2938.5	1088.6	847.7	643.2	500.0	486.3	447.7	422.7	415.9	415.9
9615.4	55°	2418.1	911.3	715.9	570.4	461.3	436.3	409.1	397.7	390.9	386.3
8867.8	57.5°	1965.8	747.7	575.0	506.8	425.0	393.2	384.1	370.4	359.1	352.3
8242.8	60°	1613.6	588.6	475.0	450.0	388.6	359.1	356.8	338.6	309.1	304.5
7726.9	62.5°	1245.4	431.8	400.0	390.9	352.3	327.3	322.7	286.3	240.9	231.8
6995.1	65°	879.5	336.3	322.7	343.2	313.6	290.9	279.5	225.0	177.3	170.4
5854.3	67.5°	618.2	281.8	254.5	300.0	272.7	243.2	236.4	190.9	147.7	143.2
4427.1	70°	440.9	229.5	209.1	256.8	218.2	213.6	200.0	159.1	120.4	115.9
2190.8	72.5°	311.3	175.0	161.4	222.7	150.0	184.1	163.6	122.7	90.9	86.4
745.4	75°	229.5	125.0	113.6	129.5	109.1	138.6	115.9	81.8	56.8	54.5
336.3	77.5°	168.2	79.5	68.2	63.6	63.6	86.4	63.6	34.1	25.0	22.7
170.4	80°	118.2	36.4	31.8	27.3	25.0	20.5	9.1	4.5	2.3	2.3
59.1	82.5°	70.5	15.9	15.9	11.4	6.8	0.0	0.0	0.0	0.0	0.0
22.7	85°	15.9	6.8	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
9.1	87.5°	2.3	2.3	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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