

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: P956424

Luminaire Tested: **GALN-SB9A-830-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956424  
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-830-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

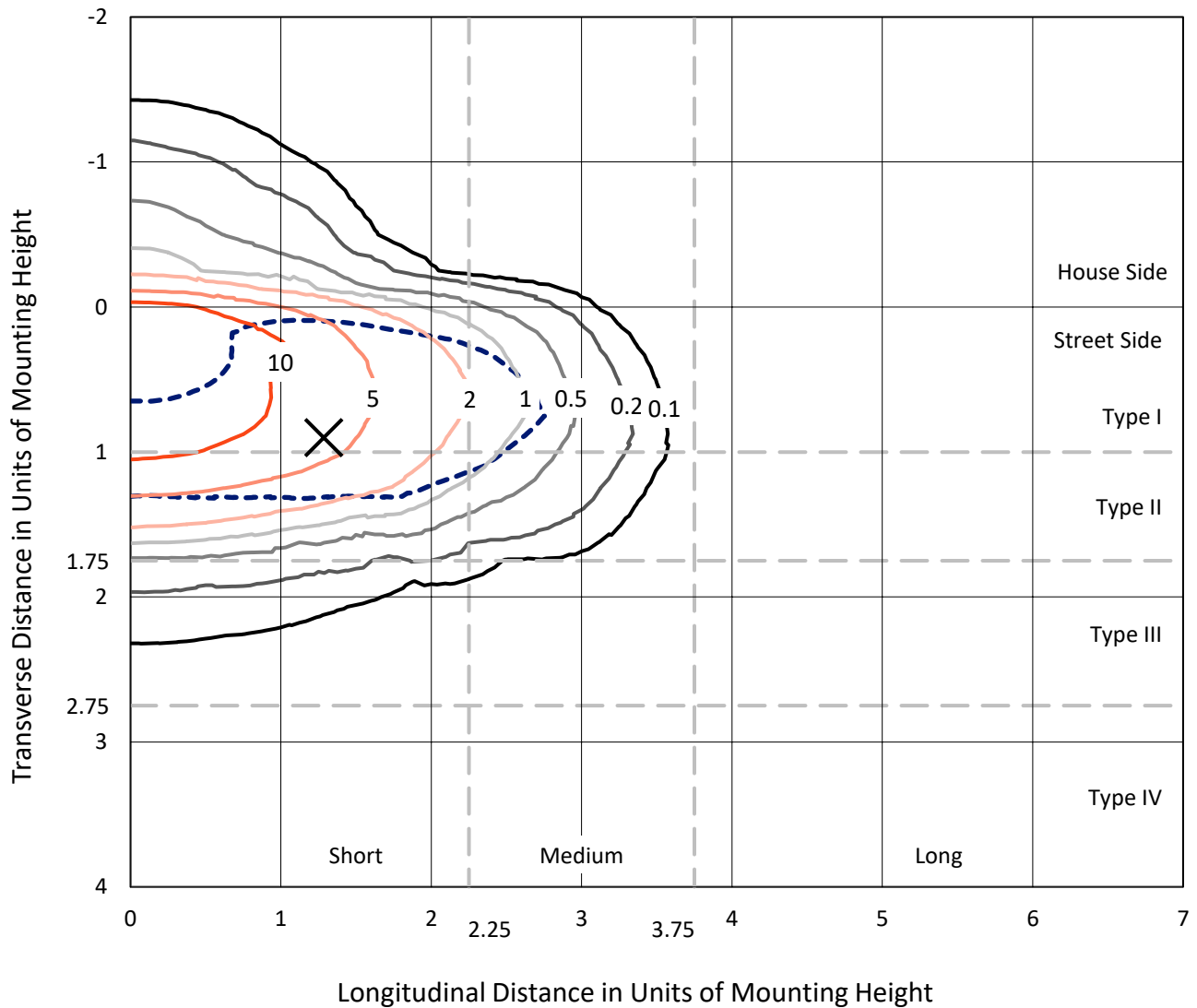
Lumens per Lamp: N/A  
Luminaire Lumens: 31302 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

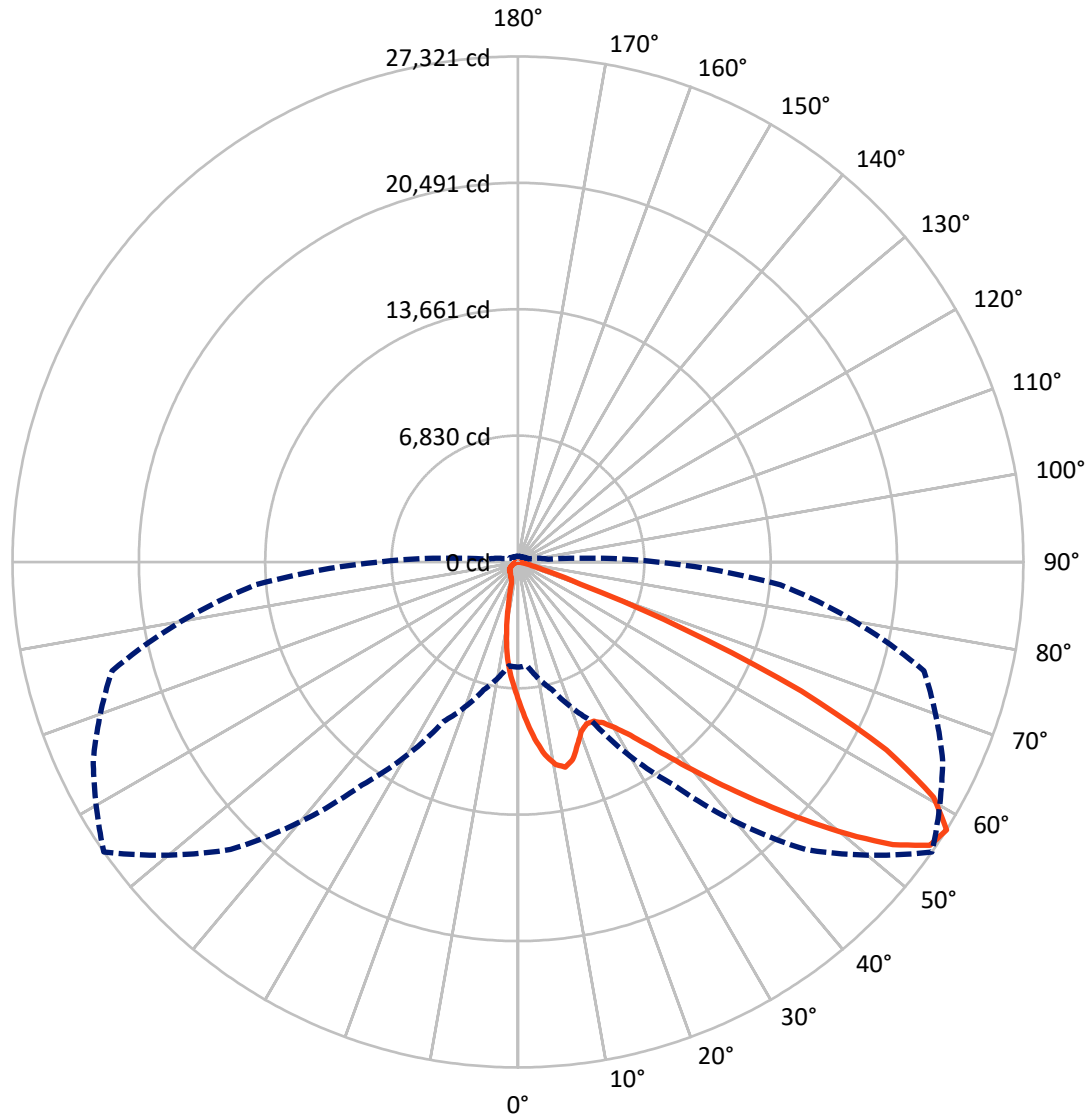
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 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	2444.6	0.0	2444.6
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	28857.4	0.0	28857.4
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	31302.0	0.0	31302.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	701.8	2.2
10°-20°	1695.3	5.4
20°-30°	2712.4	8.7
30°-40°	4591.0	14.7
40°-50°	7537.4	24.1
50°-60°	8284.1	26.5
60°-70°	4751.8	15.2
70°-80°	970.9	3.1
80°-90°	57.3	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°	31302.0	100.0
0°-180°	31302.0	100.0

**Coefficient of Utilization**



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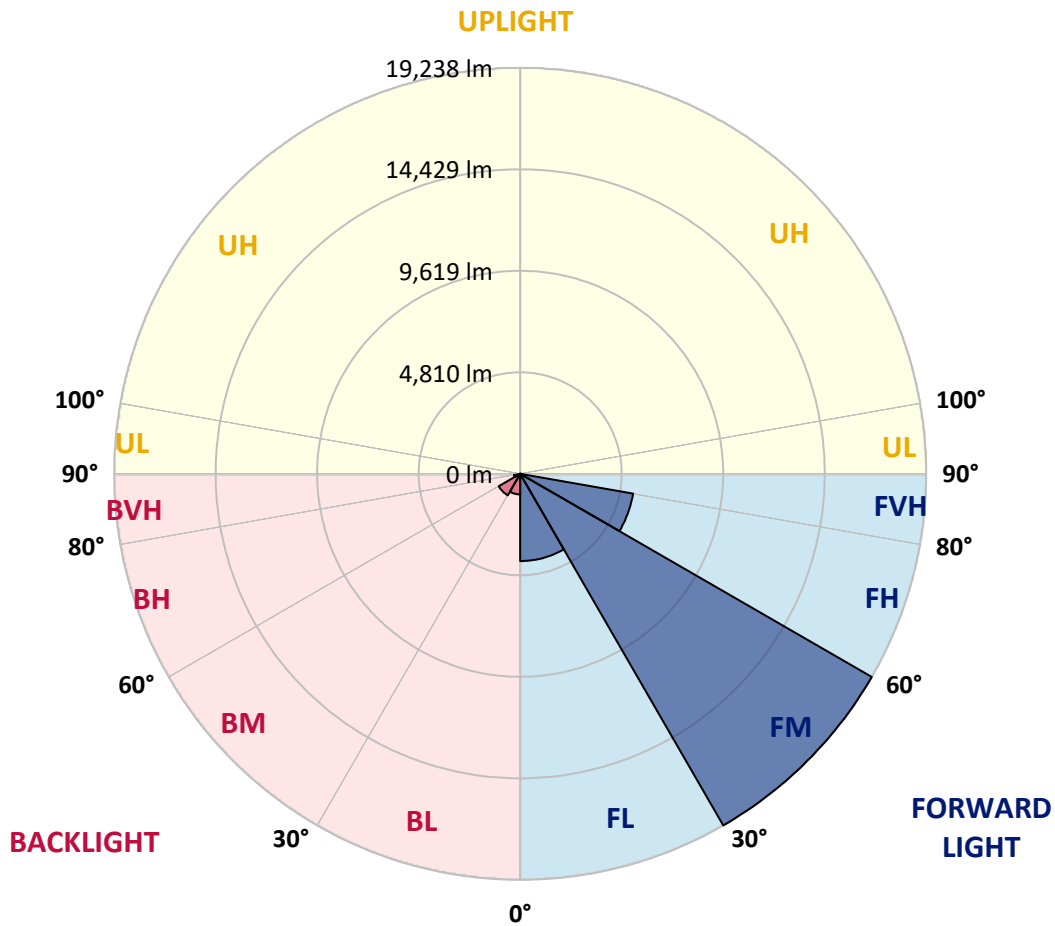
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4133.6	13.2			
FM (30°-60°)	19238.4	61.5			
FH (60°-80°)	5432.0	17.4			G3/7500
FVH (80°-90°)	53.4	0.2			G1/100
BL (0°-30°)	975.9	3.1	B2/1000		
BM (30°-60°)	1174.0	3.8	B2/2500		
BH (60°-80°)	290.7	0.9	B1/500		G1/500
BVH (80°-90°)	3.9	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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7543.0	7543.0	7543.0	7543.0	7543.0	7543.0	7543.0	7543.0	7543.0	7543.0
2.5°	9359.3	9241.5	9224.2	9201.0	8977.1	8809.2	8566.0	8299.6	8000.5	7695.5
5°	10812.7	10720.0	10702.7	10594.6	10339.8	10054.1	9621.8	9075.5	8517.7	7861.5
7.5°	11094.5	11077.1	11156.2	11152.4	11117.6	10891.8	10527.0	9876.6	9038.9	8066.1
10°	9838.0	9882.3	10117.8	10324.4	10882.2	11206.4	11127.3	10590.7	9575.5	8299.6
12.5°	8693.4	8641.3	8809.2	9042.7	9691.3	10656.3	11376.3	11187.1	10189.2	8564.1
15°	7975.4	7954.1	8048.7	8156.8	8650.9	9623.7	11086.8	11671.6	10779.9	8876.7
17.5°	7745.7	7728.3	7757.3	7784.3	8104.7	8857.4	10397.7	11968.8	11345.4	9233.8
20°	7932.9	7909.7	7905.9	7884.6	8017.8	8531.2	9774.3	11990.1	11853.0	9558.1
22.5°	8479.1	8452.1	8357.5	8272.6	8284.2	8575.6	9496.3	11777.8	12235.2	9861.1
25°	9469.3	9424.9	9228.0	8942.4	8760.9	8884.5	9538.8	11497.9	12600.0	10098.5
27.5°	10708.4	10650.5	10397.7	9973.1	9558.1	9407.5	9845.7	11304.9	12903.0	10280.0
30°	11922.5	11847.2	11598.2	11268.2	10662.1	10187.3	10399.6	11389.8	13264.0	10469.1
32.5°	13233.1	13161.7	12831.6	12422.4	11920.6	11281.7	11158.2	11804.8	13706.0	10733.5
35°	14891.1	14779.1	14310.1	13752.3	13219.6	12573.0	12185.0	12520.9	14294.7	11136.9
37.5°	16778.8	16628.2	16122.5	15352.4	14657.5	13933.7	13435.7	13505.2	15157.4	11677.4
40°	18558.4	18421.3	17954.2	17228.5	16356.1	15477.8	14947.1	14792.6	16348.3	12335.6
42.5°	19625.7	19502.2	19305.3	18998.4	18263.0	17367.5	16697.7	16363.8	17757.3	13123.1
45°	19685.6	19577.5	19841.9	20199.0	20054.2	19457.8	18641.4	18029.5	19172.1	13862.3
47.5°	18728.2	18654.9	19457.8	20704.7	21326.2	21577.1	20824.3	19556.2	20339.9	14393.1
50°	16118.6	16091.6	17743.8	20033.0	21810.6	23433.9	23127.0	20976.8	21245.1	14667.2
52.5°	13976.2	13877.7	14840.9	17882.8	21106.1	24410.6	25377.6	22370.4	21878.2	14719.3
55°	10600.4	10513.5	11721.8	14285.0	18834.4	24063.1	27024.0	23808.4	22331.8	14586.1
57.5°	5686.2	5632.2	7158.9	9507.9	14723.2	21978.6	27321.2	25329.3	22714.0	14232.9
60°	2213.9	2204.2	2775.5	4613.0	8948.2	17880.9	25821.5	26242.3	22953.3	13798.6
62.5°	1339.5	1368.5	1461.1	2071.0	3952.9	11108.0	22364.6	25203.8	23113.5	13401.0
65°	1107.9	1109.8	1121.4	1422.5	1893.5	4647.8	16836.7	21787.5	22717.8	12692.6
67.5°	949.6	967.0	1011.4	1129.1	1335.7	2038.2	9693.2	16877.2	20310.9	11044.3
70°	748.9	772.1	828.0	928.4	1030.7	1275.8	3582.4	11229.6	15516.4	8324.7
72.5°	631.2	629.2	658.2	754.7	818.4	897.5	1378.1	6292.3	9017.6	3974.2
75°	488.3	507.6	544.3	631.2	669.8	650.5	747.0	2298.8	3231.1	1204.4
77.5°	382.2	397.6	430.4	515.3	554.0	461.3	430.4	822.2	1038.4	432.4
80°	171.8	185.3	293.4	380.2	451.7	318.5	233.5	420.8	461.3	196.9
82.5°	30.9	52.1	171.8	200.7	231.6	206.5	121.6	218.1	225.8	79.1
85°	1.9	3.9	59.8	73.3	92.6	67.6	36.7	86.9	75.3	27.0
87.5°	0.0	0.0	0.0	1.9	1.9	9.7	11.6	15.4	11.6	9.7
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°
7543.0	0°	7543.0	7543.0	7543.0	7543.0	7543.0	7543.0	7543.0	7543.0	7543.0	7543.0
7560.4	2.5°	7421.4	7147.3	6881.0	6662.9	6535.5	6319.3	6176.5	6153.3	6093.5	6145.6
7579.7	5°	7278.6	6788.3	6292.3	5848.3	5483.5	5012.6	4661.3	4512.7	4383.4	4427.8
7629.9	7.5°	7211.0	6437.0	5665.0	4906.4	4126.7	3373.9	2814.2	2580.6	2403.0	2428.1
7685.8	10°	7120.3	6072.2	4862.0	3704.0	2659.7	1916.6	1530.6	1387.8	1308.6	1310.6
7768.8	12.5°	7050.8	5636.0	3929.8	2511.1	1619.4	1223.7	1104.0	1069.3	1046.1	1048.1
7894.3	15°	7016.1	5122.6	3009.1	1673.4	1158.1	1036.5	1007.5	992.1	976.7	974.7
8033.3	17.5°	6958.2	4551.3	2202.3	1221.8	1013.3	970.9	945.8	928.4	909.1	905.2
8152.9	20°	6871.3	3902.8	1609.7	1032.6	949.6	916.8	882.1	858.9	835.8	831.9
8228.2	22.5°	6711.1	3217.6	1237.2	955.4	903.3	866.6	824.2	797.2	774.0	770.1
8191.5	25°	6413.9	2574.8	1042.3	907.2	862.8	818.4	772.1	735.4	714.2	710.3
8112.4	27.5°	6037.5	2022.8	945.8	862.8	810.7	770.1	718.0	683.3	664.0	660.1
8008.2	30°	5593.6	1557.6	889.8	812.6	748.9	714.2	667.8	638.9	627.3	627.3
7934.8	32.5°	5114.9	1244.9	866.6	762.4	694.9	656.2	619.6	608.0	604.1	602.2
7975.4	35°	4665.2	1080.9	855.1	721.9	646.6	609.9	594.5	596.4	604.1	604.1
8100.8	37.5°	4265.6	1028.8	849.3	692.9	604.1	571.3	581.0	598.3	590.6	590.6
8320.9	40°	3904.7	1034.6	845.4	671.7	569.4	550.1	569.4	555.9	536.6	534.7
8589.1	42.5°	3628.7	1082.8	837.7	654.3	548.2	534.7	526.9	505.7	503.8	507.6
8867.1	45°	3427.9	1125.3	835.8	646.6	525.0	499.9	490.3	469.0	507.6	517.3
8981.0	47.5°	3190.5	1125.3	835.8	619.6	486.4	476.7	461.3	438.1	476.7	486.4
8872.9	50°	2883.6	1053.9	802.9	588.7	455.5	449.7	422.7	393.7	386.0	391.8
8620.0	52.5°	2495.7	924.5	719.9	546.2	424.6	413.1	380.2	359.0	353.2	353.2
8166.4	55°	2053.7	774.0	608.0	484.5	391.8	370.6	347.4	337.8	332.0	328.1
7531.4	57.5°	1669.6	635.0	488.3	430.4	360.9	333.9	326.2	314.6	305.0	299.2
7000.6	60°	1370.4	499.9	403.4	382.2	330.1	305.0	303.0	287.6	262.5	258.6
6562.5	62.5°	1057.7	366.7	339.7	332.0	299.2	277.9	274.1	243.2	204.6	196.9
5941.0	65°	747.0	285.7	274.1	291.5	266.4	247.1	237.4	191.1	150.6	144.8
4972.1	67.5°	525.0	239.3	216.2	254.8	231.6	206.5	200.7	162.1	125.5	121.6
3759.9	70°	374.4	194.9	177.6	218.1	185.3	181.4	169.9	135.1	102.3	98.4
1860.7	72.5°	264.4	148.6	137.0	189.2	127.4	156.3	139.0	104.2	77.2	73.3
633.1	75°	194.9	106.2	96.5	110.0	92.6	117.7	98.4	69.5	48.3	46.3
285.7	77.5°	142.8	67.6	57.9	54.0	54.0	73.3	54.0	29.0	21.2	19.3
144.8	80°	100.4	30.9	27.0	23.2	21.2	17.4	7.7	3.9	1.9	1.9
50.2	82.5°	59.8	13.5	13.5	9.7	5.8	0.0	0.0	0.0	0.0	0.0
19.3	85°	13.5	5.8	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
7.7	87.5°	1.9	1.9	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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