

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: P956151

Luminaire Tested: **GALN-SB8D-927-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956151  
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-SB8D-927-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

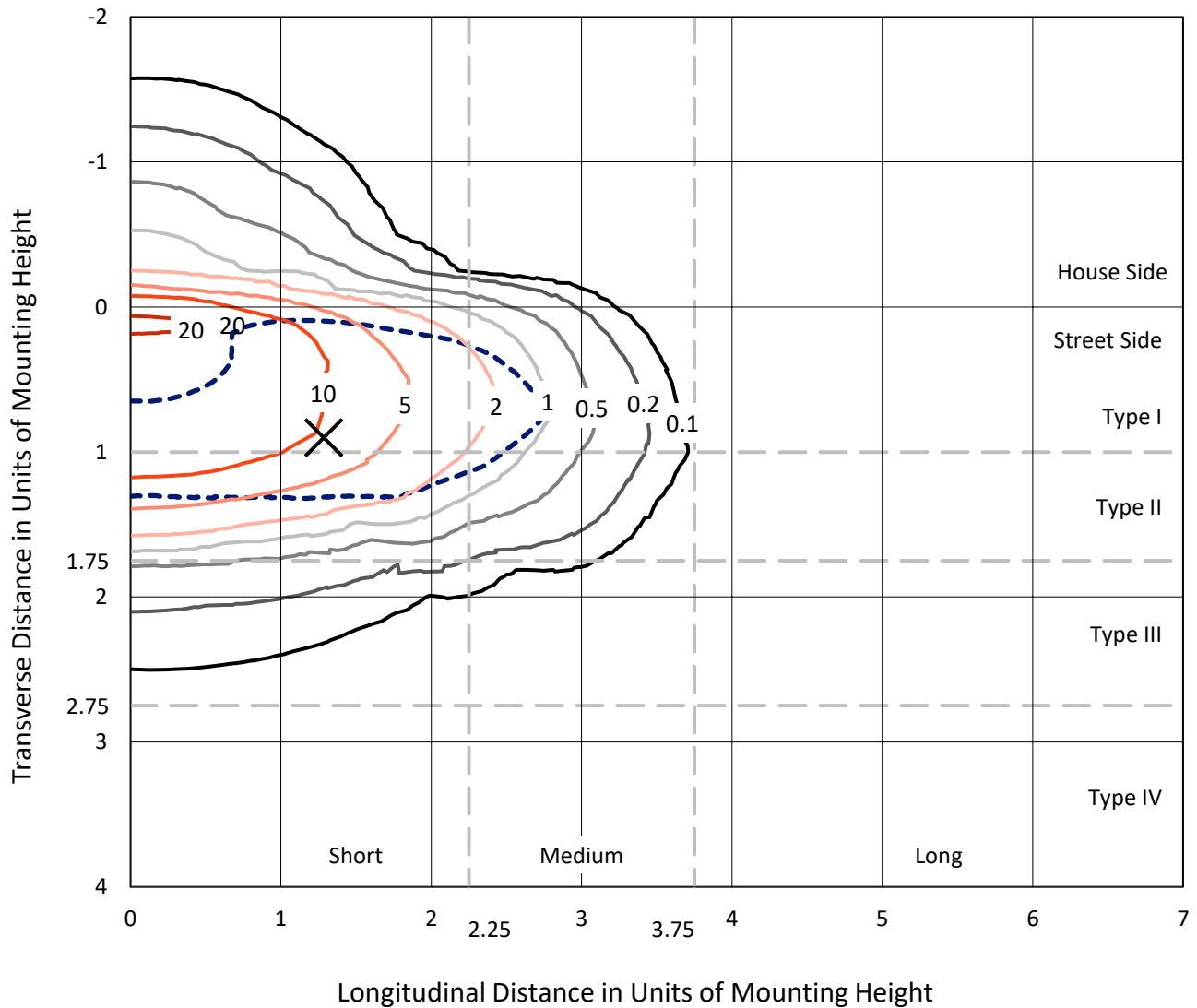
Lumens per Lamp: N/A  
Luminaire Lumens: 42705 lumens  
Efficiency: N/A  
Efficacy: 73.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

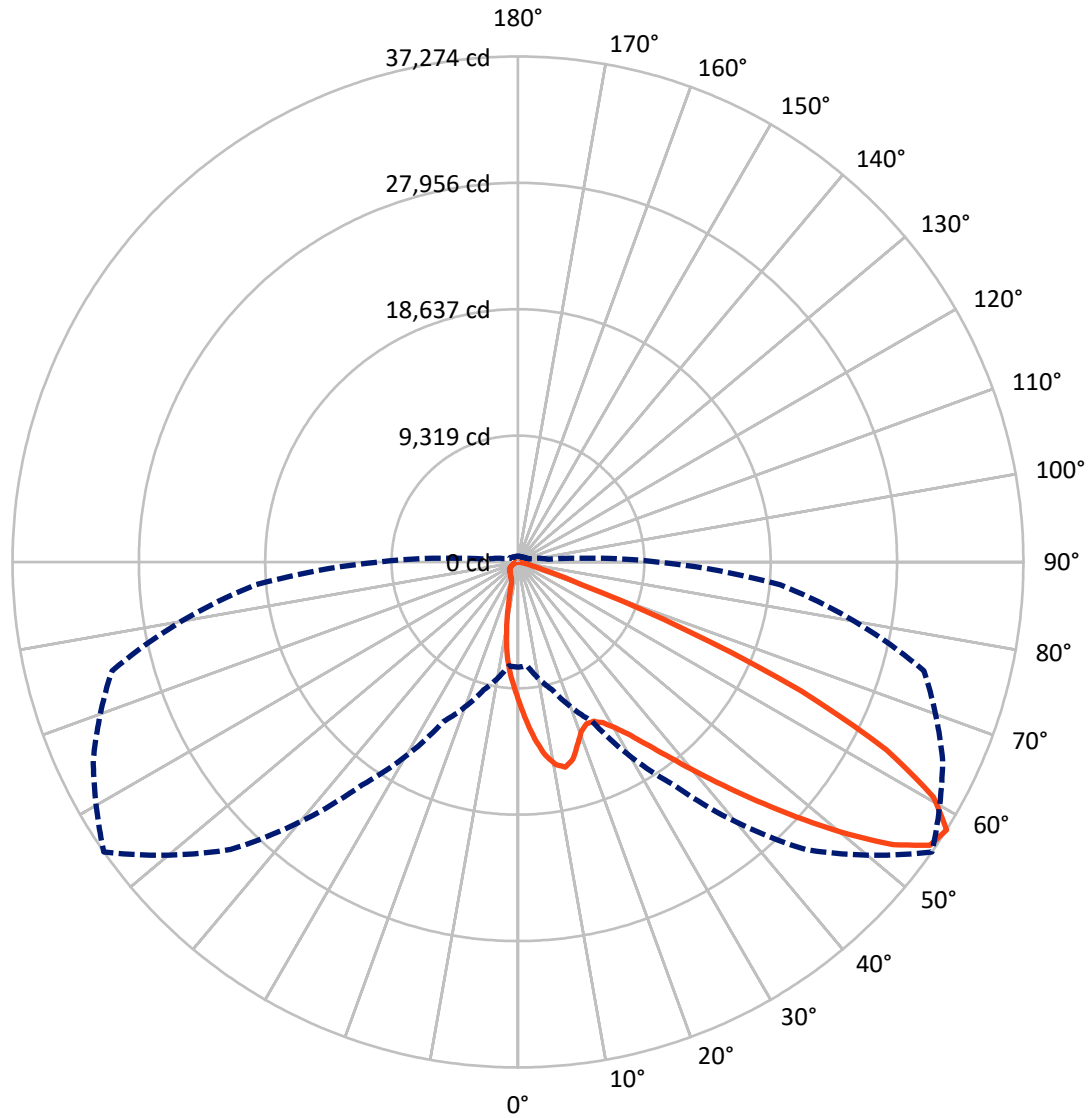
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 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	3335.1	0.0	3335.1
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	39369.9	0.0	39369.9
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	42705.0	0.0	42705.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	957.5	2.2
10°-20°	2312.9	5.4
20°-30°	3700.5	8.7
30°-40°	6263.4	14.7
40°-50°	10283.2	24.1
50°-60°	11301.9	26.5
60°-70°	6482.8	15.2
70°-80°	1324.6	3.1
80°-90°	78.1	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°	42705.0	100.0
0°-180°	42705.0	100.0

**Coefficient of Utilization**



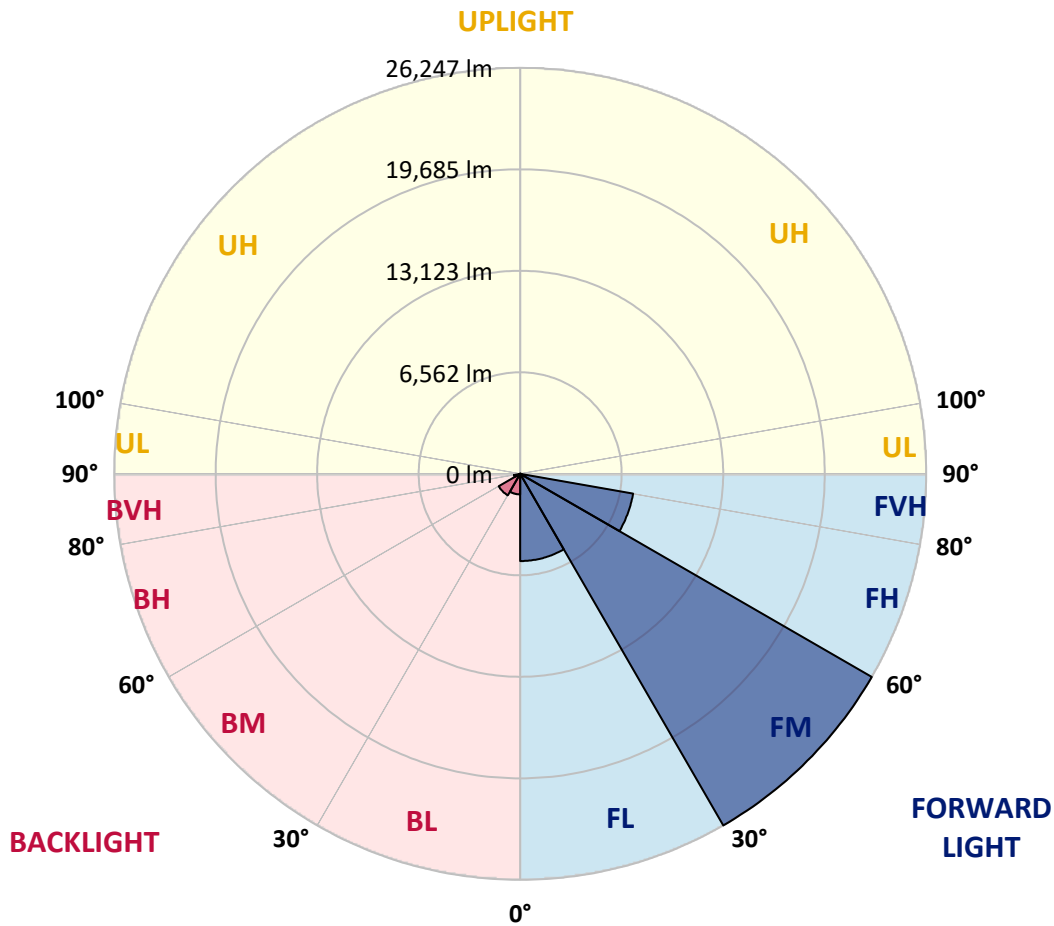
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5639.5	13.2			
FM (30°-60°)	26246.8	61.5			
FH (60°-80°)	7410.8	17.4			G3/7500
FVH (80°-90°)	72.9	0.2			G1/100
BL (0°-30°)	1331.5	3.1	B3/2500		
BM (30°-60°)	1601.7	3.8	B2/2500		
BH (60°-80°)	396.6	0.9	B1/500		G1/500
BVH (80°-90°)	5.3	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°	10290.9	10290.9	10290.9	10290.9	10290.9	10290.9	10290.9	10290.9	10290.9	10290.9
2.5°	12768.8	12608.1	12584.4	12552.8	12247.4	12018.3	11686.5	11323.1	10914.9	10498.9
5°	14751.6	14625.2	14601.5	14454.1	14106.5	13716.7	13126.9	12381.7	11620.7	10725.3
7.5°	15136.1	15112.4	15220.3	15215.1	15167.7	14859.6	14361.9	13474.5	12331.6	11004.5
10°	13421.8	13482.4	13803.6	14085.4	14846.4	15288.8	15180.9	14448.8	13063.7	11323.1
12.5°	11860.3	11789.2	12018.3	12336.9	13221.7	14538.3	15520.5	15262.5	13901.1	11683.9
15°	10880.7	10851.7	10980.8	11128.2	11802.4	13129.5	15125.6	15923.4	14706.9	12110.4
17.5°	10567.3	10543.6	10583.1	10620.0	11057.1	12084.1	14185.5	16329.0	15478.4	12597.6
20°	10822.8	10791.2	10785.9	10756.9	10938.6	11639.1	13334.9	16357.9	16171.0	13040.0
22.5°	11568.0	11531.1	11402.1	11286.2	11302.0	11699.7	12955.7	16068.3	16692.4	13453.4
25°	12918.9	12858.3	12589.7	12200.0	11952.5	12121.0	13013.7	15686.4	17190.0	13777.3
27.5°	14609.4	14530.4	14185.5	13606.2	13040.0	12834.6	13432.4	15423.1	17603.5	14024.8
30°	16265.8	16163.1	15823.4	15373.1	14546.2	13898.4	14188.1	15539.0	18095.9	14282.9
32.5°	18053.8	17956.3	17506.0	16947.8	16263.1	15391.5	15223.0	16105.1	18698.9	14643.7
35°	20315.7	20163.0	19523.1	18762.1	18035.3	17153.2	16623.9	17082.1	19502.1	15194.0
37.5°	22891.1	22685.7	21995.8	20945.1	19997.1	19009.6	18330.3	18425.0	20679.1	15931.3
40°	25319.0	25132.0	24494.8	23504.6	22314.4	21116.3	20392.1	20181.4	22303.9	16829.3
42.5°	26775.2	26606.6	26338.1	25919.4	24916.1	23694.2	22780.5	22324.9	24226.2	17903.7
45°	26856.8	26709.3	27070.1	27557.3	27359.8	26546.1	25432.2	24597.5	26156.4	18912.2
47.5°	25550.7	25450.6	26546.1	28247.2	29095.1	29437.4	28410.4	26680.4	27749.5	19636.4
50°	21990.5	21953.6	24207.7	27330.8	29756.0	31970.6	31551.9	28618.5	28984.5	20010.3
52.5°	19067.6	18933.3	20247.3	24397.3	28794.9	33303.1	34622.3	30519.7	29848.2	20081.4
55°	14462.0	14343.5	15991.9	19488.9	25695.5	32829.1	36868.5	32481.5	30467.0	19899.7
57.5°	7757.6	7683.9	9766.8	12971.5	20086.6	29985.1	37274.1	34556.5	30988.4	19417.8
60°	3020.4	3007.2	3786.7	6293.5	12207.9	24394.7	35228.0	35802.1	31314.9	18825.3
62.5°	1827.5	1867.0	1993.4	2825.5	5393.0	15154.5	30511.8	34385.4	31533.5	18282.9
65°	1511.5	1514.1	1529.9	1940.7	2583.2	6340.9	22970.1	29724.4	30993.7	17316.4
67.5°	1295.6	1319.3	1379.8	1540.5	1822.2	2780.7	13224.3	23025.4	27710.0	15067.6
70°	1021.7	1053.3	1129.7	1266.6	1406.2	1740.6	4887.4	15320.4	21168.9	11357.3
72.5°	861.1	858.4	897.9	1029.6	1116.5	1224.5	1880.2	8584.5	12302.7	5421.9
75°	666.2	692.6	742.6	861.1	913.7	887.4	1019.1	3136.2	4408.1	1643.2
77.5°	521.4	542.5	587.2	703.1	755.8	629.4	587.2	1121.8	1416.7	589.9
80°	234.4	252.8	400.3	518.8	616.2	434.5	318.6	574.1	629.4	268.6
82.5°	42.1	71.1	234.4	273.9	316.0	281.8	165.9	297.6	308.1	108.0
85°	2.6	5.3	81.6	100.1	126.4	92.2	50.0	118.5	102.7	36.9
87.5°	0.0	0.0	0.0	2.6	2.6	13.2	15.8	21.1	15.8	13.2
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°
10290.9	0°	10290.9	10290.9	10290.9	10290.9	10290.9	10290.9	10290.9	10290.9	10290.9	10290.9
10314.6	2.5°	10125.0	9751.0	9387.6	9090.1	8916.3	8621.4	8426.5	8394.9	8313.3	8384.4
10340.9	5°	9930.1	9261.2	8584.5	7978.8	7481.1	6838.6	6359.4	6156.6	5980.2	6040.7
10409.4	7.5°	9837.9	8782.0	7728.7	6693.8	5629.9	4603.0	3839.3	3520.7	3278.4	3312.7
10485.7	10°	9714.2	8284.3	6633.2	5053.3	3628.7	2614.8	2088.2	1893.3	1785.4	1788.0
10598.9	12.5°	9619.4	7689.2	5361.4	3425.9	2209.3	1669.5	1506.2	1458.8	1427.2	1429.9
10770.1	15°	9572.0	6988.7	4105.3	2283.1	1580.0	1414.1	1374.6	1353.5	1332.4	1329.8
10959.7	17.5°	9493.0	6209.3	3004.6	1666.9	1382.5	1324.5	1290.3	1266.6	1240.3	1235.0
11123.0	20°	9374.5	5324.5	2196.2	1408.8	1295.6	1250.8	1203.4	1171.8	1140.2	1134.9
11225.7	22.5°	9155.9	4389.7	1687.9	1303.5	1232.4	1182.3	1124.4	1087.5	1055.9	1050.7
11175.6	25°	8750.4	3512.8	1422.0	1237.6	1177.1	1116.5	1053.3	1003.3	974.3	969.0
11067.7	27.5°	8236.9	2759.7	1290.3	1177.1	1106.0	1050.7	979.6	932.2	905.8	900.6
10925.5	30°	7631.2	2125.1	1213.9	1108.6	1021.7	974.3	911.1	871.6	855.8	855.8
10825.4	32.5°	6978.2	1698.5	1182.3	1040.1	948.0	895.3	845.3	829.5	824.2	821.6
10880.7	35°	6364.6	1474.6	1166.5	984.8	882.1	832.1	811.0	813.7	824.2	824.2
11051.9	37.5°	5819.5	1403.5	1158.6	945.3	824.2	779.5	792.6	816.3	805.8	805.8
11352.1	40°	5327.1	1411.4	1153.4	916.4	776.8	750.5	776.8	758.4	732.1	729.4
11718.1	42.5°	4950.6	1477.3	1142.8	892.7	747.9	729.4	718.9	689.9	687.3	692.6
12097.3	45°	4676.7	1535.2	1140.2	882.1	716.3	682.0	668.9	639.9	692.6	705.7
12252.6	47.5°	4352.8	1535.2	1140.2	845.3	663.6	650.4	629.4	597.8	650.4	663.6
12105.2	50°	3934.1	1437.8	1095.4	803.1	621.5	613.6	576.7	537.2	526.7	534.6
11760.2	52.5°	3404.8	1261.3	982.2	745.2	579.3	563.5	518.8	489.8	481.9	481.9
11141.4	55°	2801.8	1055.9	829.5	661.0	534.6	505.6	474.0	460.8	452.9	447.7
10275.1	57.5°	2277.8	866.3	666.2	587.2	492.4	455.6	445.0	429.2	416.1	408.2
9550.9	60°	1869.6	682.0	550.4	521.4	450.3	416.1	413.4	392.4	358.1	352.9
8953.1	62.5°	1443.0	500.3	463.5	452.9	408.2	379.2	373.9	331.8	279.1	268.6
8105.2	65°	1019.1	389.7	373.9	397.6	363.4	337.1	323.9	260.7	205.4	197.5
6783.3	67.5°	716.3	326.5	294.9	347.6	316.0	281.8	273.9	221.2	171.2	165.9
5129.6	70°	510.9	266.0	242.3	297.6	252.8	247.5	231.7	184.3	139.6	134.3
2538.5	72.5°	360.8	202.8	187.0	258.1	173.8	213.3	189.6	142.2	105.3	100.1
863.7	75°	266.0	144.8	131.7	150.1	126.4	160.6	134.3	94.8	65.8	63.2
389.7	77.5°	194.9	92.2	79.0	73.7	73.7	100.1	73.7	39.5	29.0	26.3
197.5	80°	136.9	42.1	36.9	31.6	29.0	23.7	10.5	5.3	2.6	2.6
68.5	82.5°	81.6	18.4	18.4	13.2	7.9	0.0	0.0	0.0	0.0	0.0
26.3	85°	18.4	7.9	7.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
10.5	87.5°	2.6	2.6	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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