

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: P956760

Luminaire Tested: **GALN-SB9B-827-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956760  
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-SB9B-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

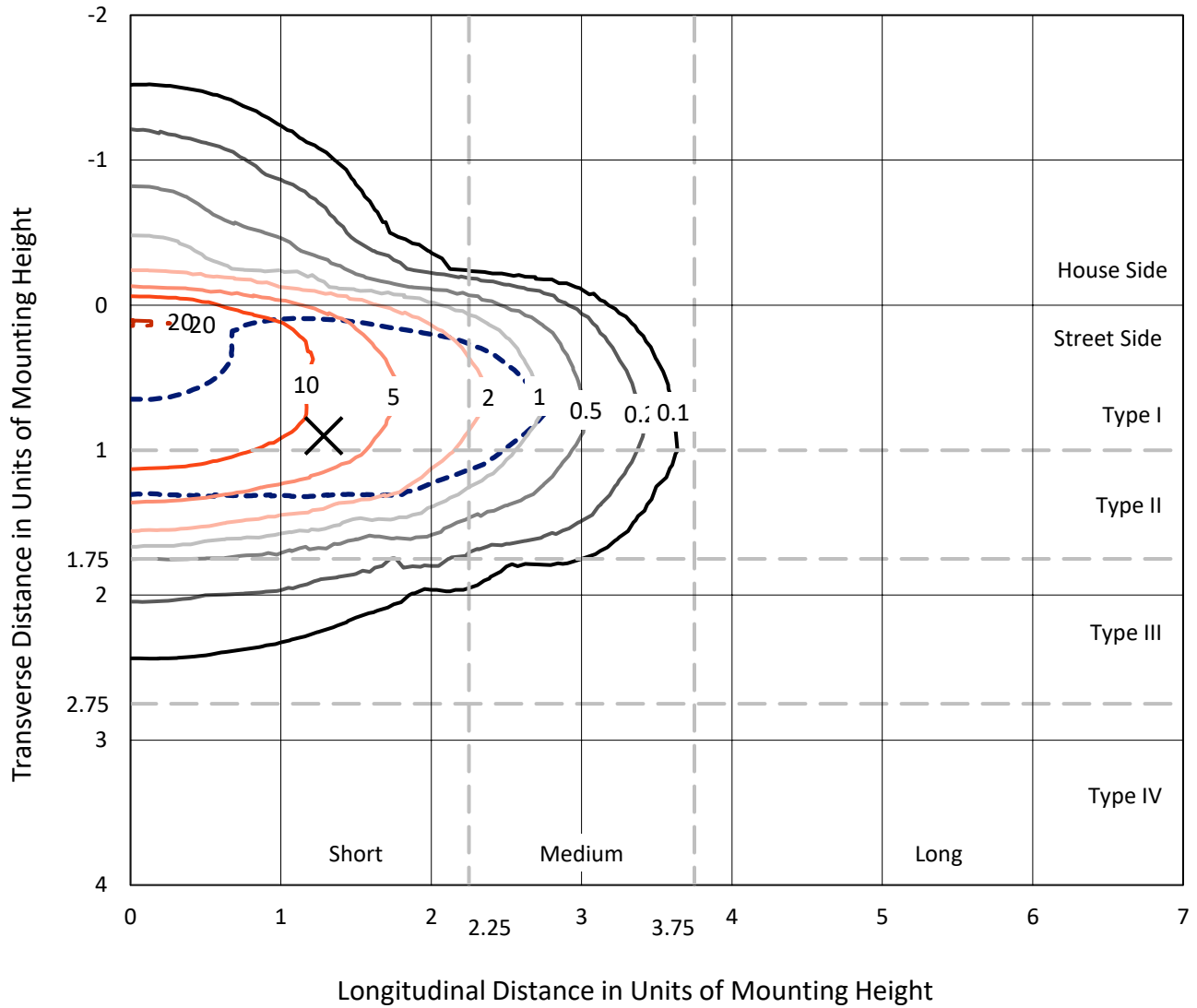
Lumens per Lamp: N/A  
Luminaire Lumens: 38027 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

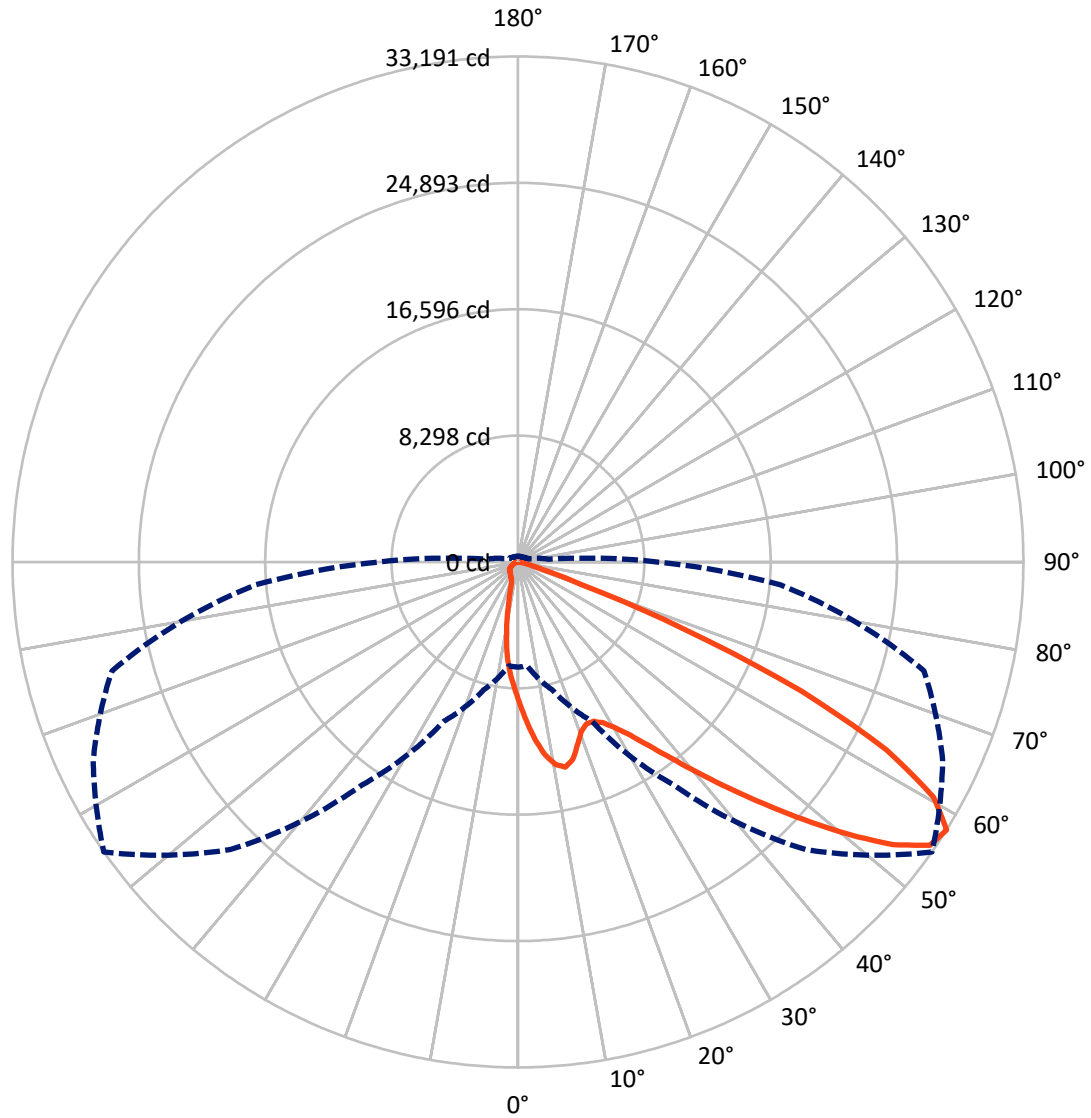
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 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	2969.7	0.0	2969.7
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	35057.2	0.0	35057.2
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	38027.0	0.0	38027.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	852.6	2.2
10°-20°	2059.5	5.4
20°-30°	3295.2	8.7
30°-40°	5577.3	14.7
40°-50°	9156.7	24.1
50°-60°	10063.9	26.5
60°-70°	5772.7	15.2
70°-80°	1179.5	3.1
80°-90°	69.6	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°	38027.0	100.0
0°-180°	38027.0	100.0

**Coefficient of Utilization**



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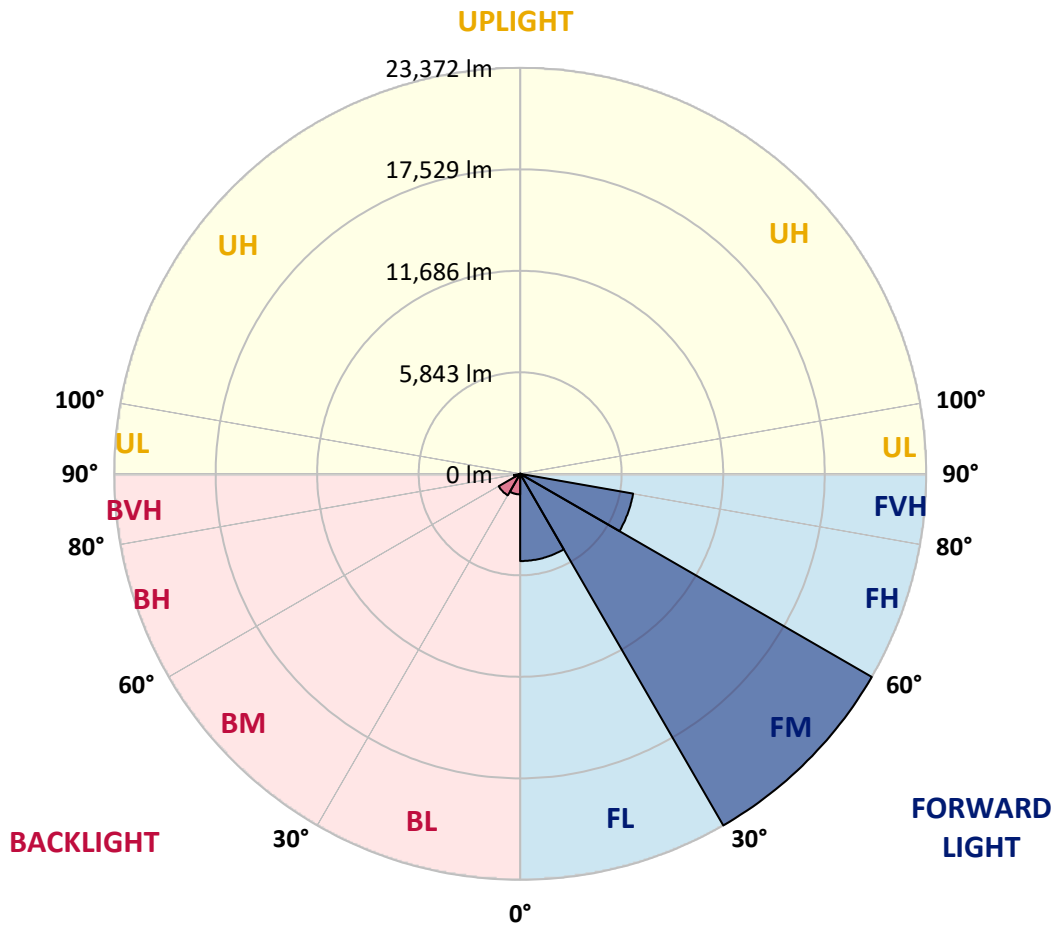
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5021.7	13.2			
FM (30°-60°)	23371.7	61.5			
FH (60°-80°)	6599.0	17.4			G3/7500
FVH (80°-90°)	64.9	0.2			G1/100
BL (0°-30°)	1185.6	3.1	B3/2500		
BM (30°-60°)	1426.3	3.8	B2/2500		
BH (60°-80°)	353.2	0.9	B1/500		G1/500
BVH (80°-90°)	4.7	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°	9163.6	9163.6	9163.6	9163.6	9163.6	9163.6	9163.6	9163.6	9163.6	9163.6
2.5°	11370.0	11227.0	11205.9	11177.8	10905.8	10701.8	10406.3	10082.7	9719.3	9348.8
5°	13135.7	13023.1	13002.0	12870.7	12561.2	12214.2	11688.9	11025.4	10347.7	9550.5
7.5°	13478.0	13456.9	13553.1	13548.4	13506.2	13231.8	12788.7	11998.5	10980.8	9799.0
10°	11951.6	12005.5	12291.6	12542.5	13220.1	13614.0	13517.9	12866.0	11632.7	10082.7
12.5°	10561.1	10497.8	10701.8	10985.5	11773.4	12945.8	13820.4	13590.6	12378.3	10404.0
15°	9688.8	9663.0	9777.9	9909.2	10509.5	11691.3	13468.7	14179.1	13095.8	10783.8
17.5°	9409.8	9388.7	9423.8	9456.7	9845.9	10760.4	12631.6	14540.2	13782.9	11217.6
20°	9637.2	9609.1	9604.4	9578.6	9740.4	10364.1	11874.2	14566.0	14399.6	11611.6
22.5°	10300.8	10268.0	10153.1	10049.9	10064.0	10418.1	11536.5	14308.1	14863.8	11979.7
25°	11503.7	11449.8	11210.6	10863.6	10643.2	10793.2	11588.1	13968.1	15307.0	12268.1
27.5°	13009.1	12938.7	12631.6	12115.7	11611.6	11428.7	11960.9	13733.6	15675.1	12488.5
30°	14484.0	14392.5	14090.0	13689.1	12952.8	12376.0	12633.9	13836.8	16113.6	12718.3
32.5°	16076.1	15989.4	15588.4	15091.3	14481.6	13705.5	13555.4	14340.9	16650.6	13039.6
35°	18090.3	17954.3	17384.5	16706.9	16059.7	15274.2	14802.9	15210.9	17365.8	13529.6
37.5°	20383.5	20200.7	19586.3	18650.7	17806.6	16927.3	16322.3	16406.7	18413.9	14186.2
40°	22545.5	22379.0	21811.5	20929.9	19870.0	18803.1	18158.3	17970.7	19860.7	14985.8
42.5°	23842.2	23692.1	23452.9	23080.1	22186.7	21098.7	20285.1	19879.4	21572.4	15942.5
45°	23914.9	23783.5	24104.8	24538.6	24362.7	23638.2	22646.3	21903.0	23291.1	16840.5
47.5°	22751.8	22662.7	23638.2	25152.9	25908.0	26212.8	25298.3	23757.8	24709.7	17485.3
50°	19581.6	19548.8	21556.0	24336.9	26496.5	28468.5	28095.7	25483.5	25809.5	17818.3
52.5°	16978.9	16859.3	18029.3	21724.8	25640.6	29655.0	30829.7	27176.5	26578.6	17881.6
55°	12877.8	12772.3	14240.1	17354.0	22880.8	29232.9	32829.9	28923.4	27129.6	17719.8
57.5°	6907.8	6842.2	8696.9	11550.6	17886.3	26700.5	33191.0	30771.1	27593.9	17290.7
60°	2689.5	2677.8	3371.9	5604.1	10870.6	21722.4	31369.0	31880.2	27884.6	16763.1
62.5°	1627.3	1662.5	1775.0	2516.0	4802.2	13494.5	27169.5	30618.7	28079.3	16280.1
65°	1345.9	1348.3	1362.3	1728.1	2300.3	5646.3	20453.9	26468.4	27598.6	15419.6
67.5°	1153.7	1174.8	1228.7	1371.7	1622.6	2476.1	11775.7	20503.1	24674.6	13417.1
70°	909.8	937.9	1005.9	1127.9	1252.1	1549.9	4352.0	13642.2	18850.0	10113.2
72.5°	766.8	764.4	799.6	916.8	994.2	1090.3	1674.2	7644.1	10955.0	4828.0
75°	593.2	616.7	661.2	766.8	813.7	790.2	907.4	2792.7	3925.2	1463.2
77.5°	464.3	483.0	522.9	626.1	673.0	560.4	522.9	998.9	1261.5	525.2
80°	208.7	225.1	356.4	461.9	548.7	386.9	283.7	511.2	560.4	239.2
82.5°	37.5	63.3	208.7	243.9	281.4	250.9	147.7	265.0	274.3	96.1
85°	2.3	4.7	72.7	89.1	112.6	82.1	44.6	105.5	91.4	32.8
87.5°	0.0	0.0	0.0	2.3	2.3	11.7	14.1	18.8	14.1	11.7
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°
9163.6	0°	9163.6	9163.6	9163.6	9163.6	9163.6	9163.6	9163.6	9163.6	9163.6	9163.6
9184.7	2.5°	9015.8	8682.9	8359.3	8094.3	7939.6	7677.0	7503.4	7475.3	7402.6	7465.9
9208.1	5°	8842.3	8246.7	7644.1	7104.8	6661.6	6089.5	5662.7	5482.2	5325.1	5379.0
9269.1	7.5°	8760.3	7820.0	6882.1	5960.5	5013.2	4098.8	3418.8	3135.0	2919.3	2949.8
9337.1	10°	8650.1	7376.8	5906.6	4499.7	3231.2	2328.4	1859.4	1685.9	1589.8	1592.1
9437.9	12.5°	8565.6	6846.9	4774.1	3050.6	1967.3	1486.6	1341.2	1299.0	1270.9	1273.2
9590.3	15°	8523.4	6223.2	3655.6	2033.0	1406.9	1259.2	1224.0	1205.2	1186.5	1184.1
9759.2	17.5°	8453.1	5529.1	2675.4	1484.3	1231.0	1179.4	1149.0	1127.9	1104.4	1099.7
9904.5	20°	8347.6	4741.2	1955.6	1254.5	1153.7	1113.8	1071.6	1043.4	1015.3	1010.6
9996.0	22.5°	8153.0	3908.8	1503.0	1160.7	1097.4	1052.8	1001.2	968.4	940.3	935.6
9951.4	25°	7791.8	3128.0	1266.2	1102.1	1048.1	994.2	937.9	893.4	867.6	862.9
9855.3	27.5°	7334.6	2457.4	1149.0	1048.1	984.8	935.6	872.3	830.1	806.6	801.9
9728.7	30°	6795.3	1892.3	1081.0	987.2	909.8	867.6	811.3	776.1	762.1	762.1
9639.6	32.5°	6213.8	1512.4	1052.8	926.2	844.1	797.2	752.7	738.6	733.9	731.6
9688.8	35°	5667.4	1313.1	1038.8	877.0	785.5	741.0	722.2	724.6	733.9	733.9
9841.2	37.5°	5182.1	1249.8	1031.7	841.8	733.9	694.1	705.8	726.9	717.5	717.5
10108.5	40°	4743.6	1256.8	1027.0	816.0	691.7	668.3	691.7	675.3	651.9	649.5
10434.5	42.5°	4408.3	1315.4	1017.7	794.9	665.9	649.5	640.1	614.3	612.0	616.7
10772.1	45°	4164.4	1367.0	1015.3	785.5	637.8	607.3	595.6	569.8	616.7	628.4
10910.5	47.5°	3876.0	1367.0	1015.3	752.7	590.9	579.2	560.4	532.3	579.2	590.9
10779.2	50°	3503.2	1280.3	975.4	715.2	553.4	546.3	513.5	478.3	469.0	476.0
10472.0	52.5°	3031.9	1123.2	874.6	663.6	515.9	501.8	461.9	436.1	429.1	429.1
9920.9	55°	2494.9	940.3	738.6	588.6	476.0	450.2	422.1	410.3	403.3	398.6
9149.5	57.5°	2028.3	771.4	593.2	522.9	438.5	405.7	396.3	382.2	370.5	363.4
8504.7	60°	1664.8	607.3	490.1	464.3	401.0	370.5	368.1	349.4	318.9	314.2
7972.4	62.5°	1285.0	445.5	412.7	403.3	363.4	337.7	333.0	295.4	248.6	239.2
7217.4	65°	907.4	347.0	333.0	354.1	323.6	300.1	288.4	232.1	182.9	175.9
6040.3	67.5°	637.8	290.8	262.6	309.5	281.4	250.9	243.9	197.0	152.4	147.7
4567.7	70°	454.9	236.8	215.7	265.0	225.1	220.4	206.3	164.1	124.3	119.6
2260.4	72.5°	321.2	180.6	166.5	229.8	154.8	189.9	168.8	126.6	93.8	89.1
769.1	75°	236.8	129.0	117.2	133.7	112.6	143.0	119.6	84.4	58.6	56.3
347.0	77.5°	173.5	82.1	70.3	65.7	65.7	89.1	65.7	35.2	25.8	23.4
175.9	80°	121.9	37.5	32.8	28.1	25.8	21.1	9.4	4.7	2.3	2.3
61.0	82.5°	72.7	16.4	16.4	11.7	7.0	0.0	0.0	0.0	0.0	0.0
23.4	85°	16.4	7.0	7.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
9.4	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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