

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: P945840

Luminaire Tested: **GALN-SB1C-935-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945840  
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-SB1C-935-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

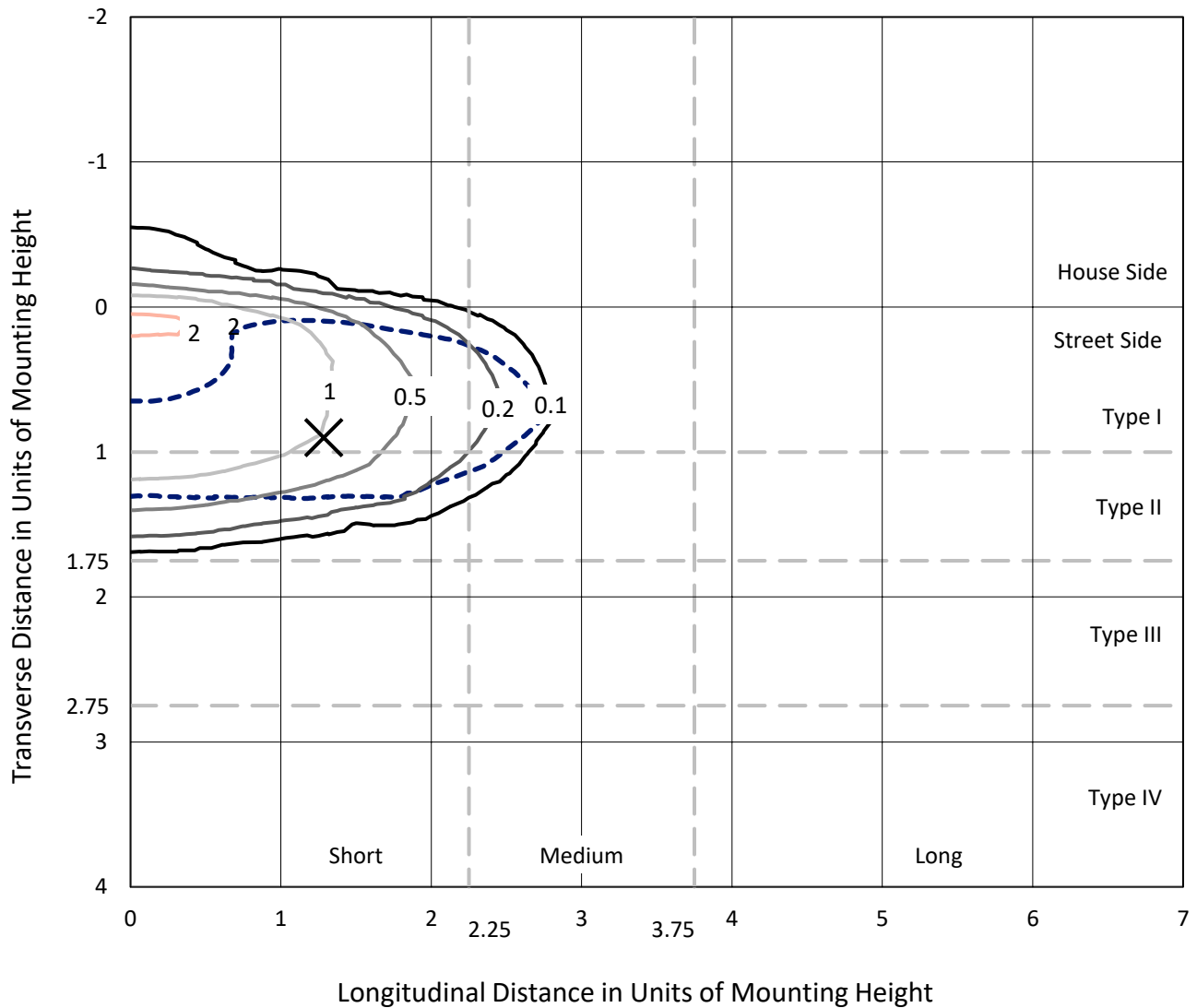
Lumens per Lamp: N/A  
Luminaire Lumens: 4443 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

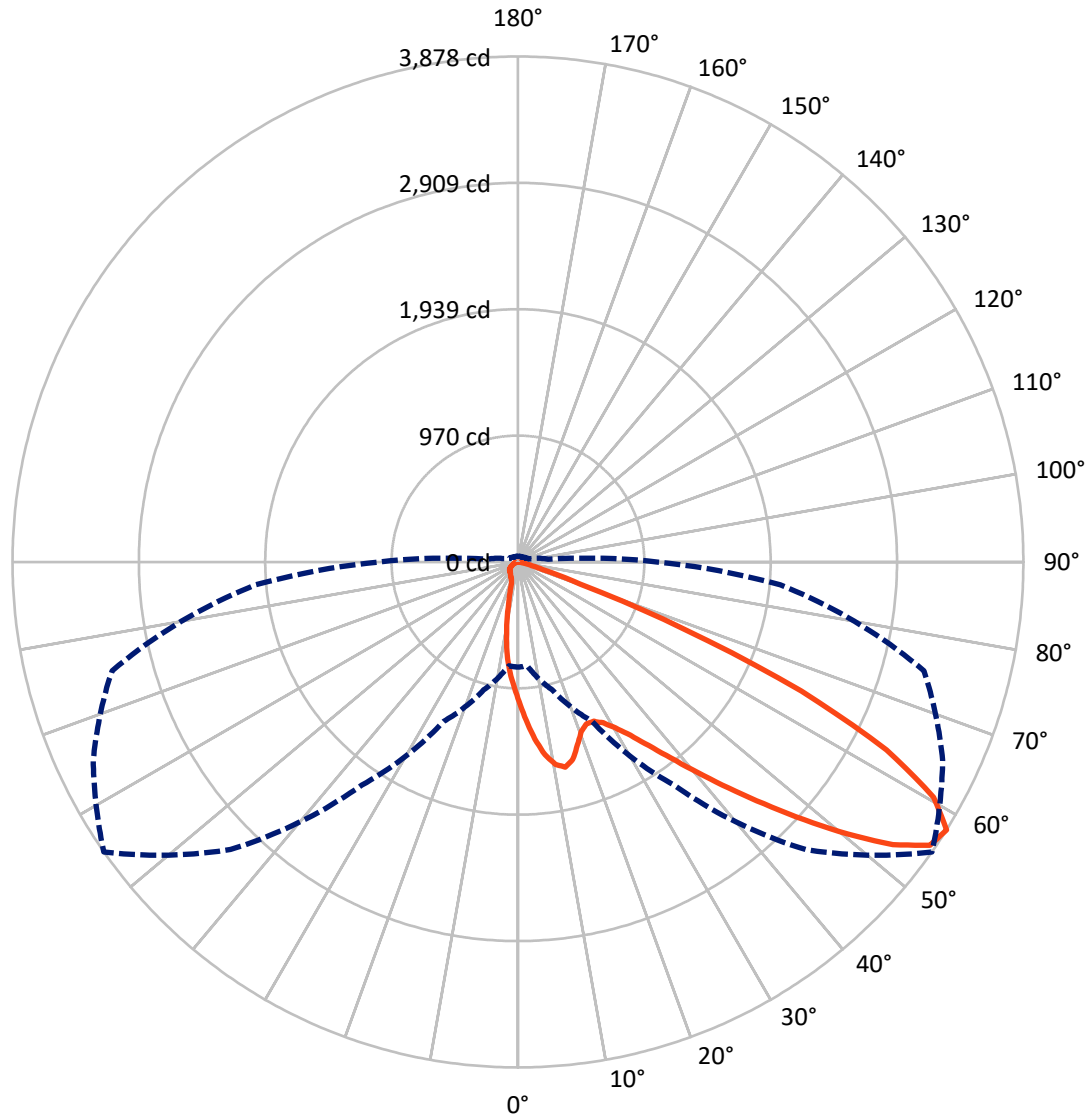
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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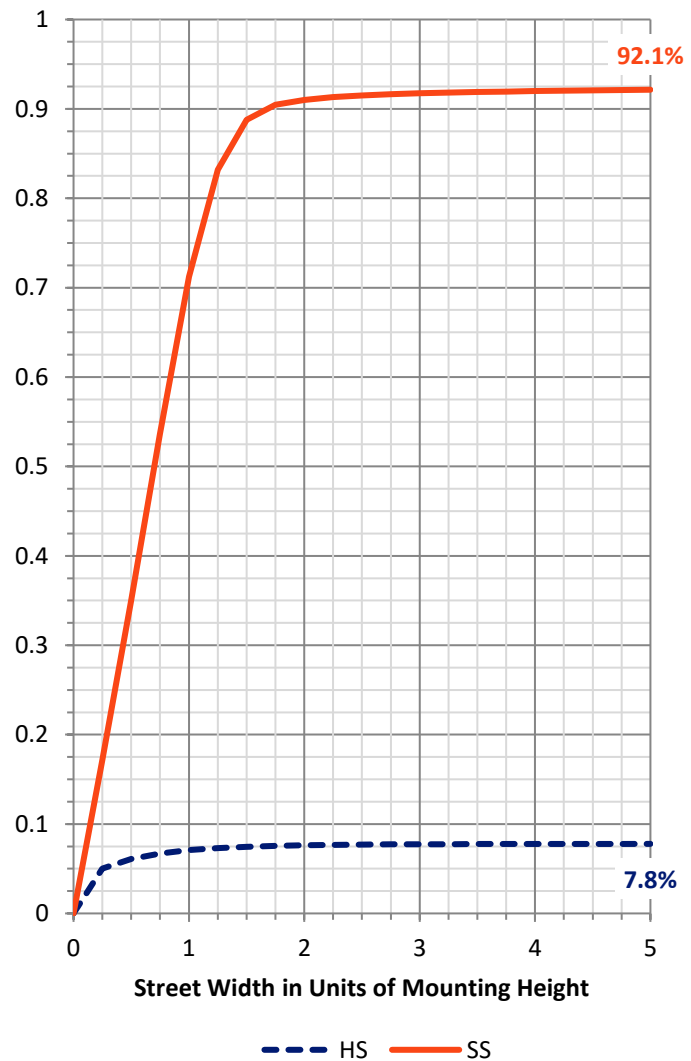
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	347.0	0.0	347.0
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	4096.0	0.0	4096.0
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	4443.0	0.0	4443.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.6	2.2
10°-20°	240.6	5.4
20°-30°	385.0	8.7
30°-40°	651.6	14.7
40°-50°	1069.9	24.1
50°-60°	1175.8	26.5
60°-70°	674.5	15.2
70°-80°	137.8	3.1
80°-90°	8.1	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°	4443.0	100.0
0°-180°	4443.0	100.0

**Coefficient of Utilization**



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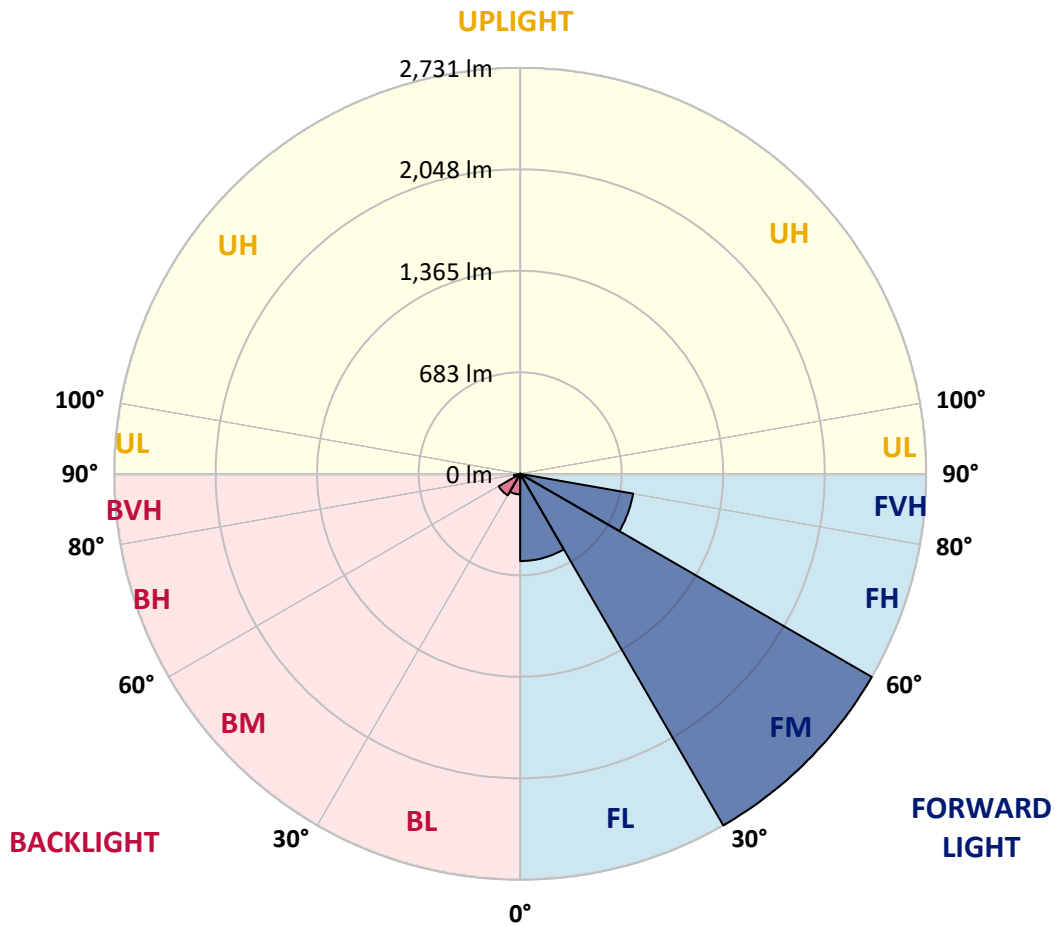
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.7	13.2			
FM (30°-60°)	2730.7	61.5			
FH (60°-80°)	771.0	17.4			G1/1800
FVH (80°-90°)	7.6	0.2			G0/10
BL (0°-30°)	138.5	3.1	B1/500		
BM (30°-60°)	166.6	3.8	B0/220		
BH (60°-80°)	41.3	0.9	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7
2.5°	1328.5	1311.7	1309.3	1306.0	1274.2	1250.4	1215.9	1178.0	1135.6	1092.3
5°	1534.7	1521.6	1519.1	1503.8	1467.6	1427.1	1365.7	1288.2	1209.0	1115.9
7.5°	1574.7	1572.3	1583.5	1583.0	1578.0	1546.0	1494.2	1401.9	1283.0	1144.9
10°	1396.4	1402.7	1436.1	1465.4	1544.6	1590.6	1579.4	1503.2	1359.1	1178.0
12.5°	1233.9	1226.5	1250.4	1283.5	1375.6	1512.6	1614.7	1587.9	1446.3	1215.6
15°	1132.0	1129.0	1142.4	1157.8	1227.9	1366.0	1573.7	1656.7	1530.1	1260.0
17.5°	1099.4	1097.0	1101.1	1104.9	1150.4	1257.2	1475.8	1698.9	1610.4	1310.6
20°	1126.0	1122.7	1122.2	1119.1	1138.0	1210.9	1387.4	1701.9	1682.4	1356.7
22.5°	1203.5	1199.7	1186.3	1174.2	1175.9	1217.2	1347.9	1671.7	1736.7	1399.7
25°	1344.1	1337.8	1309.8	1269.3	1243.5	1261.1	1353.9	1632.0	1788.4	1433.4
27.5°	1520.0	1511.7	1475.8	1415.6	1356.7	1335.3	1397.5	1604.6	1831.5	1459.1
30°	1692.3	1681.6	1646.3	1599.4	1513.4	1446.0	1476.1	1616.7	1882.7	1486.0
32.5°	1878.3	1868.2	1821.3	1763.2	1692.0	1601.3	1583.8	1675.6	1945.4	1523.5
35°	2113.6	2097.7	2031.2	1952.0	1876.4	1784.6	1729.5	1777.2	2029.0	1580.8
37.5°	2381.6	2360.2	2288.4	2179.1	2080.5	1977.8	1907.1	1916.9	2151.4	1657.5
40°	2634.2	2614.7	2548.4	2445.4	2321.6	2196.9	2121.6	2099.7	2320.5	1750.9
42.5°	2785.7	2768.1	2740.2	2696.6	2592.3	2465.1	2370.1	2322.7	2520.5	1862.7
45°	2794.2	2778.8	2816.4	2867.0	2846.5	2761.8	2645.9	2559.1	2721.3	1967.6
47.5°	2658.3	2647.9	2761.8	2938.8	3027.0	3062.6	2955.8	2775.8	2887.0	2043.0
50°	2287.9	2284.0	2518.6	2843.5	3095.8	3326.2	3282.6	2977.4	3015.5	2081.9
52.5°	1983.8	1969.8	2106.5	2538.3	2995.8	3464.8	3602.1	3175.2	3105.4	2089.3
55°	1504.6	1492.3	1663.8	2027.6	2673.3	3415.5	3835.8	3379.4	3169.8	2070.4
57.5°	807.1	799.4	1016.1	1349.5	2089.8	3119.6	3878.0	3595.2	3224.0	2020.2
60°	314.2	312.9	394.0	654.8	1270.1	2538.0	3665.1	3724.8	3258.0	1958.6
62.5°	190.1	194.2	207.4	294.0	561.1	1576.7	3174.4	3577.4	3280.7	1902.1
65°	157.3	157.5	159.2	201.9	268.8	659.7	2389.8	3092.5	3224.6	1801.6
67.5°	134.8	137.3	143.6	160.3	189.6	289.3	1375.9	2395.5	2882.9	1567.6
70°	106.3	109.6	117.5	131.8	146.3	181.1	508.5	1593.9	2202.4	1181.6
72.5°	89.6	89.3	93.4	107.1	116.2	127.4	195.6	893.1	1280.0	564.1
75°	69.3	72.1	77.3	89.6	95.1	92.3	106.0	326.3	458.6	171.0
77.5°	54.2	56.4	61.1	73.1	78.6	65.5	61.1	116.7	147.4	61.4
80°	24.4	26.3	41.6	54.0	64.1	45.2	33.1	59.7	65.5	27.9
82.5°	4.4	7.4	24.4	28.5	32.9	29.3	17.3	31.0	32.1	11.2
85°	0.3	0.5	8.5	10.4	13.2	9.6	5.2	12.3	10.7	3.8
87.5°	0.0	0.0	0.0	0.3	0.3	1.4	1.6	2.2	1.6	1.4
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°
1070.7	0°	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7
1073.1	2.5°	1053.4	1014.5	976.7	945.7	927.6	897.0	876.7	873.4	864.9	872.3
1075.9	5°	1033.1	963.5	893.1	830.1	778.3	711.5	661.6	640.5	622.2	628.5
1083.0	7.5°	1023.5	913.7	804.1	696.4	585.7	478.9	399.4	366.3	341.1	344.6
1090.9	10°	1010.7	861.9	690.1	525.7	377.5	272.0	217.3	197.0	185.7	186.0
1102.7	12.5°	1000.8	800.0	557.8	356.4	229.9	173.7	156.7	151.8	148.5	148.8
1120.5	15°	995.9	727.1	427.1	237.5	164.4	147.1	143.0	140.8	138.6	138.4
1140.2	17.5°	987.6	646.0	312.6	173.4	143.8	137.8	134.2	131.8	129.0	128.5
1157.2	20°	975.3	554.0	228.5	146.6	134.8	130.1	125.2	121.9	118.6	118.1
1167.9	22.5°	952.6	456.7	175.6	135.6	128.2	123.0	117.0	113.1	109.9	109.3
1162.7	25°	910.4	365.5	147.9	128.8	122.5	116.2	109.6	104.4	101.4	100.8
1151.5	27.5°	857.0	287.1	134.2	122.5	115.1	109.3	101.9	97.0	94.2	93.7
1136.7	30°	793.9	221.1	126.3	115.3	106.3	101.4	94.8	90.7	89.0	89.0
1126.3	32.5°	726.0	176.7	123.0	108.2	98.6	93.1	87.9	86.3	85.8	85.5
1132.0	35°	662.2	153.4	121.4	102.5	91.8	86.6	84.4	84.7	85.8	85.8
1149.8	37.5°	605.5	146.0	120.5	98.4	85.8	81.1	82.5	84.9	83.8	83.8
1181.1	40°	554.2	146.8	120.0	95.3	80.8	78.1	80.8	78.9	76.2	75.9
1219.1	42.5°	515.1	153.7	118.9	92.9	77.8	75.9	74.8	71.8	71.5	72.1
1258.6	45°	486.6	159.7	118.6	91.8	74.5	71.0	69.6	66.6	72.1	73.4
1274.8	47.5°	452.9	159.7	118.6	87.9	69.0	67.7	65.5	62.2	67.7	69.0
1259.4	50°	409.3	149.6	114.0	83.6	64.7	63.8	60.0	55.9	54.8	55.6
1223.5	52.5°	354.2	131.2	102.2	77.5	60.3	58.6	54.0	51.0	50.1	50.1
1159.1	55°	291.5	109.9	86.3	68.8	55.6	52.6	49.3	47.9	47.1	46.6
1069.0	57.5°	237.0	90.1	69.3	61.1	51.2	47.4	46.3	44.7	43.3	42.5
993.7	60°	194.5	71.0	57.3	54.2	46.8	43.3	43.0	40.8	37.3	36.7
931.5	62.5°	150.1	52.1	48.2	47.1	42.5	39.5	38.9	34.5	29.0	27.9
843.3	65°	106.0	40.5	38.9	41.4	37.8	35.1	33.7	27.1	21.4	20.5
705.7	67.5°	74.5	34.0	30.7	36.2	32.9	29.3	28.5	23.0	17.8	17.3
533.7	70°	53.1	27.7	25.2	31.0	26.3	25.8	24.1	19.2	14.5	14.0
264.1	72.5°	37.5	21.1	19.5	26.8	18.1	22.2	19.7	14.8	11.0	10.4
89.9	75°	27.7	15.1	13.7	15.6	13.2	16.7	14.0	9.9	6.8	6.6
40.5	77.5°	20.3	9.6	8.2	7.7	7.7	10.4	7.7	4.1	3.0	2.7
20.5	80°	14.2	4.4	3.8	3.3	3.0	2.5	1.1	0.5	0.3	0.3
7.1	82.5°	8.5	1.9	1.9	1.4	0.8	0.0	0.0	0.0	0.0	0.0
2.7	85°	1.9	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0
1.1	87.5°	0.3	0.3	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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