

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: P945714

Luminaire Tested: **GALN-SB1C-830-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945714  
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-830-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

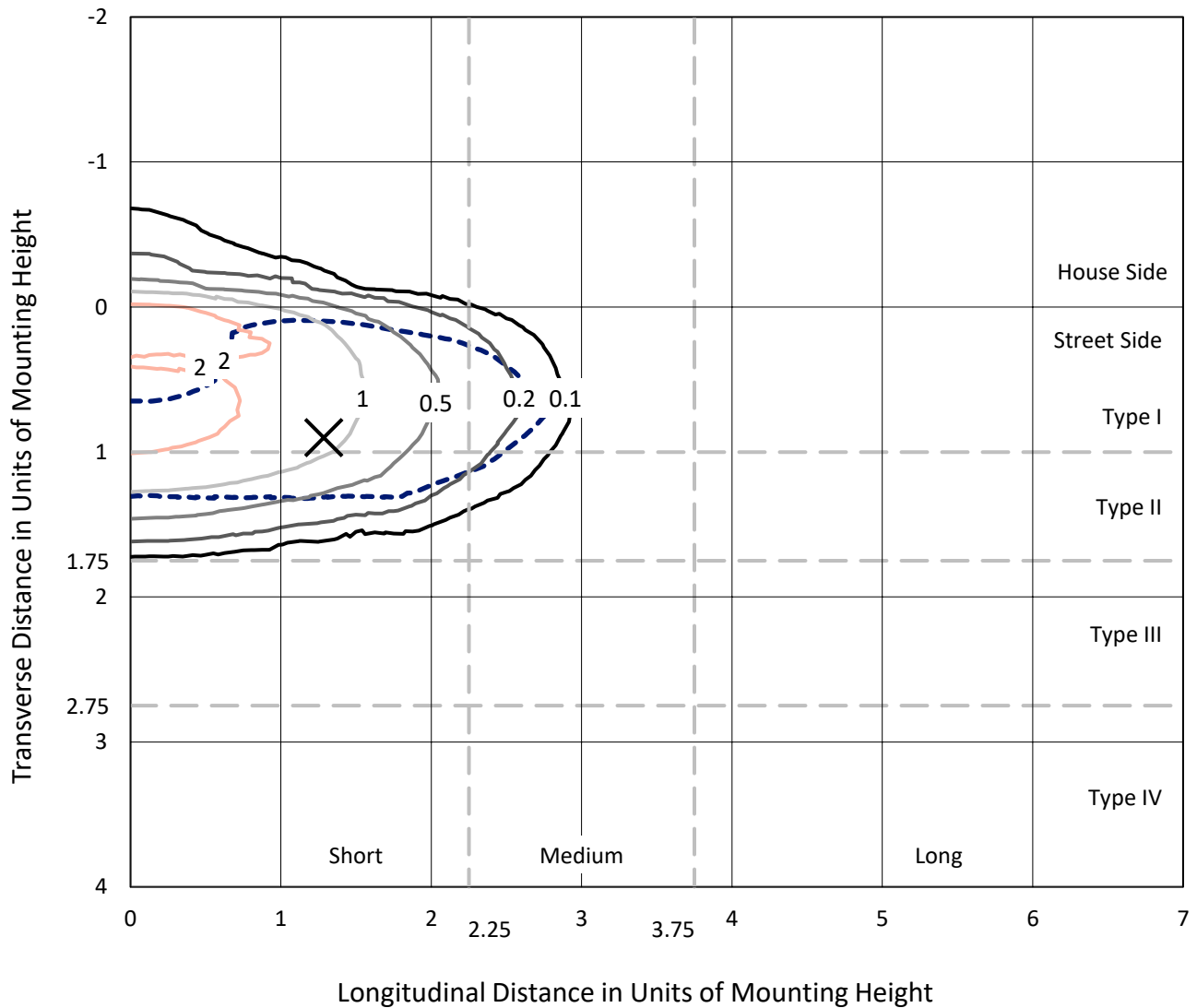
Lumens per Lamp: N/A  
Luminaire Lumens: 5739 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

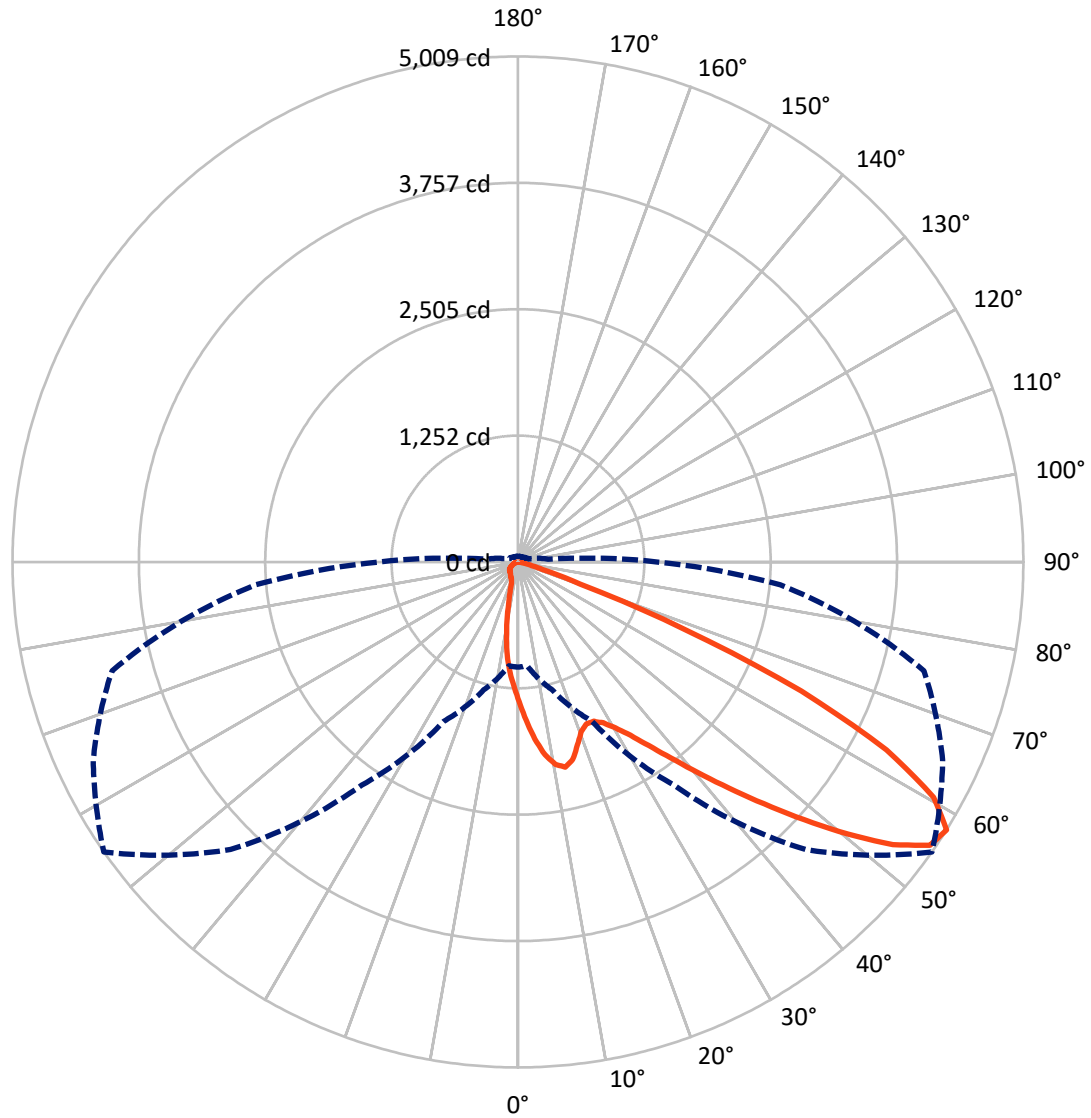
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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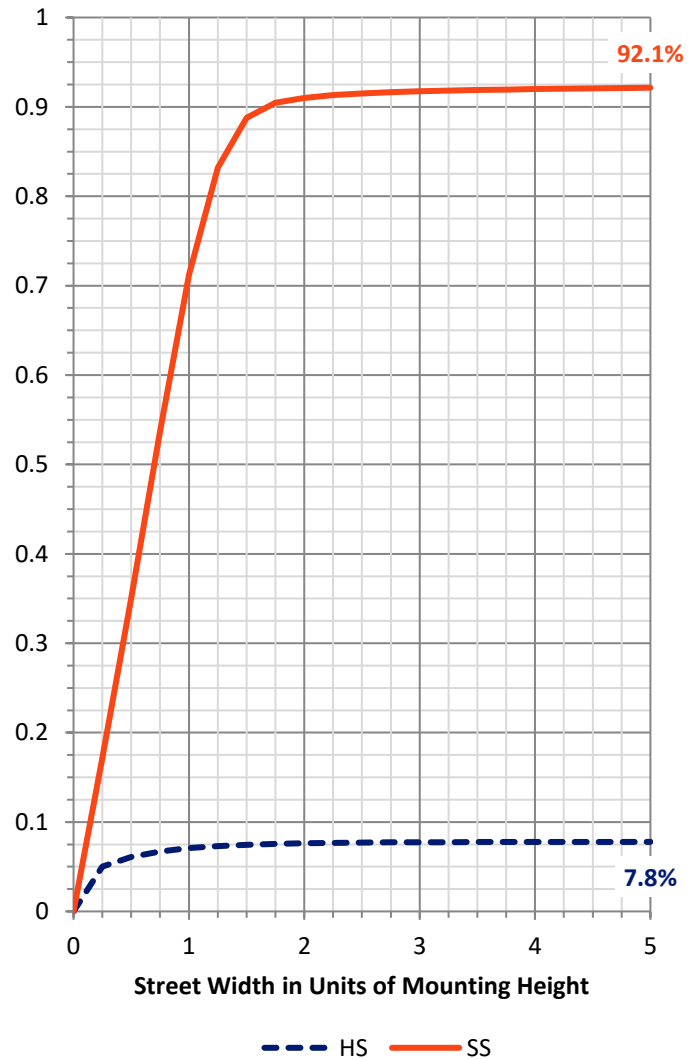
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	448.2	0.0	448.2
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	5290.8	0.0	5290.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	5739.0	0.0	5739.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.7	2.2
10°-20°	310.8	5.4
20°-30°	497.3	8.7
30°-40°	841.7	14.7
40°-50°	1381.9	24.1
50°-60°	1518.8	26.5
60°-70°	871.2	15.2
70°-80°	178.0	3.1
80°-90°	10.5	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°	5739.0	100.0
0°-180°	5739.0	100.0

**Coefficient of Utilization**



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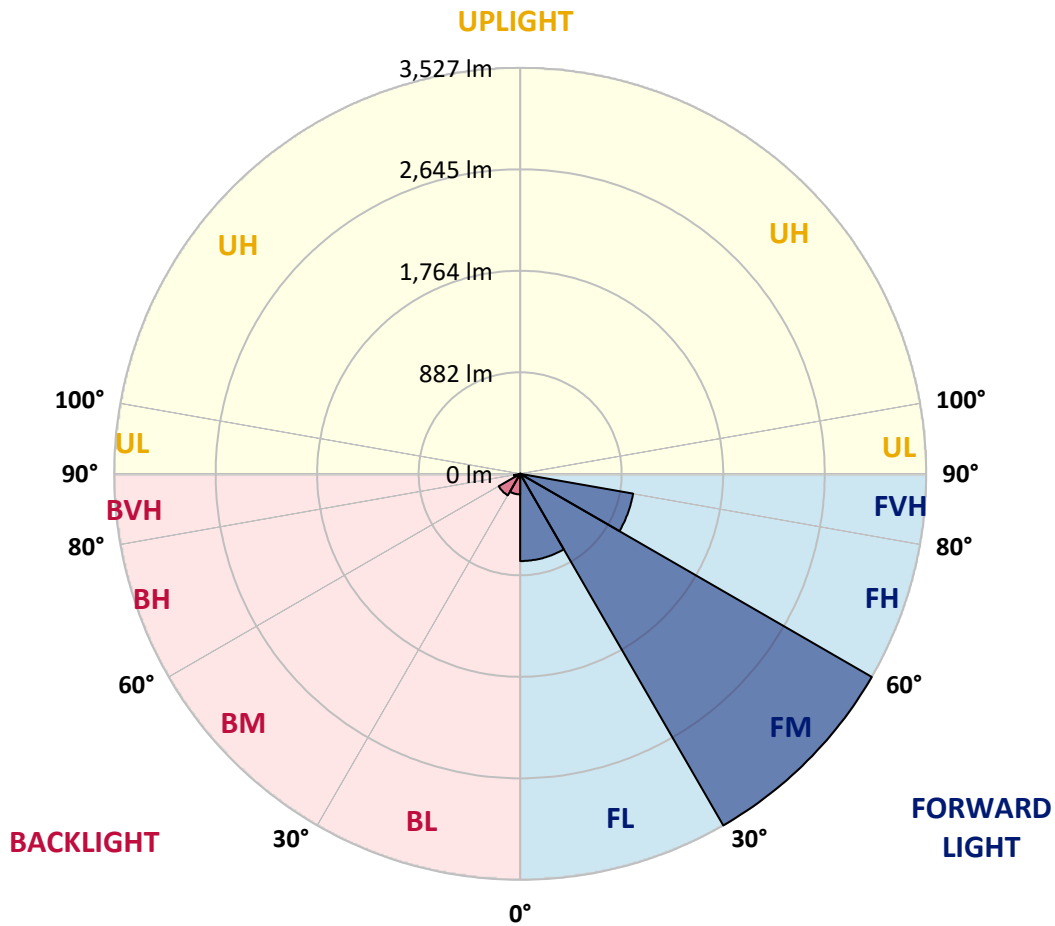
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	757.9	13.2			
FM (30°-60°)	3527.2	61.5			
FH (60°-80°)	995.9	17.4			G1/1800
FVH (80°-90°)	9.8	0.2			G0/10
BL (0°-30°)	178.9	3.1	B1/500		
BM (30°-60°)	215.3	3.8	B0/220		
BH (60°-80°)	53.3	0.9	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0
2.5°	1716.0	1694.4	1691.2	1686.9	1645.9	1615.1	1570.5	1521.7	1466.8	1410.9
5°	1982.4	1965.4	1962.3	1942.4	1895.7	1843.4	1764.1	1663.9	1561.7	1441.3
7.5°	2034.1	2030.9	2045.4	2044.7	2038.3	1996.9	1930.1	1810.8	1657.2	1478.9
10°	1803.7	1811.9	1855.0	1892.9	1995.2	2054.6	2040.1	1941.7	1755.6	1521.7
12.5°	1593.9	1584.3	1615.1	1657.9	1776.8	1953.8	2085.8	2051.1	1868.1	1570.2
15°	1462.2	1458.3	1475.7	1495.5	1586.1	1764.4	2032.7	2139.9	1976.4	1627.5
17.5°	1420.1	1416.9	1422.2	1427.2	1485.9	1623.9	1906.3	2194.4	2080.1	1693.0
20°	1454.4	1450.2	1449.5	1445.6	1470.0	1564.1	1792.0	2198.3	2173.2	1752.4
22.5°	1554.6	1549.6	1532.3	1516.7	1518.8	1572.3	1741.1	2159.4	2243.2	1808.0
25°	1736.1	1728.0	1691.9	1639.5	1606.3	1628.9	1748.9	2108.1	2310.1	1851.5
27.5°	1963.3	1952.7	1906.3	1828.5	1752.4	1724.8	1805.1	2072.7	2365.7	1884.8
30°	2185.9	2172.1	2126.5	2065.9	1954.8	1867.8	1906.7	2088.2	2431.9	1919.4
32.5°	2426.2	2413.1	2352.6	2277.6	2185.6	2068.4	2045.8	2164.3	2512.9	1967.9
35°	2730.2	2709.6	2623.7	2521.4	2423.7	2305.2	2234.0	2295.6	2620.8	2041.9
37.5°	3076.3	3048.7	2955.9	2814.8	2687.4	2554.6	2463.3	2476.1	2779.0	2141.0
40°	3402.5	3377.4	3291.8	3158.7	2998.8	2837.8	2740.4	2712.1	2997.4	2261.6
42.5°	3598.2	3575.6	3539.5	3483.2	3348.4	3184.2	3061.4	3000.2	3255.7	2406.0
45°	3609.2	3589.4	3637.9	3703.3	3676.8	3567.5	3417.8	3305.6	3515.1	2541.6
47.5°	3433.7	3420.2	3567.5	3796.1	3910.0	3956.0	3818.0	3585.5	3729.2	2638.9
50°	2955.2	2950.3	3253.2	3672.9	3998.8	4296.4	4240.2	3846.0	3895.1	2689.1
52.5°	2562.4	2544.4	2721.0	3278.7	3869.7	4475.5	4652.8	4101.5	4011.2	2698.7
55°	1943.5	1927.6	2149.1	2619.1	3453.1	4411.8	4954.7	4365.1	4094.4	2674.3
57.5°	1042.5	1032.6	1312.5	1743.2	2699.4	4029.6	5009.2	4643.9	4164.4	2609.5
60°	405.9	404.1	508.9	845.8	1640.6	3278.3	4734.2	4811.3	4208.3	2529.9
62.5°	245.6	250.9	267.9	379.7	724.7	2036.6	4100.4	4620.9	4237.7	2457.0
65°	203.1	203.5	205.6	260.8	347.2	852.1	3086.9	3994.6	4165.2	2327.1
67.5°	174.1	177.3	185.4	207.0	244.9	373.7	1777.2	3094.3	3723.9	2024.9
70°	137.3	141.6	151.8	170.2	189.0	233.9	656.8	2058.9	2844.8	1526.3
72.5°	115.7	115.4	120.7	138.4	150.0	164.6	252.7	1153.6	1653.3	728.6
75°	89.5	93.1	99.8	115.7	122.8	119.3	137.0	421.5	592.4	220.8
77.5°	70.1	72.9	78.9	94.5	101.6	84.6	78.9	150.8	190.4	79.3
80°	31.5	34.0	53.8	69.7	82.8	58.4	42.8	77.1	84.6	36.1
82.5°	5.7	9.6	31.5	36.8	42.5	37.9	22.3	40.0	41.4	14.5
85°	0.4	0.7	11.0	13.4	17.0	12.4	6.7	15.9	13.8	5.0
87.5°	0.0	0.0	0.0	0.4	0.4	1.8	2.1	2.8	2.1	1.8
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°
1383.0	0°	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0	1383.0
1386.1	2.5°	1360.7	1310.4	1261.6	1221.6	1198.2	1158.6	1132.4	1128.2	1117.2	1126.7
1389.7	5°	1334.5	1244.6	1153.6	1072.3	1005.4	919.0	854.6	827.4	803.7	811.8
1398.9	7.5°	1322.1	1180.2	1038.6	899.6	756.6	618.6	516.0	473.1	440.6	445.2
1409.1	10°	1305.5	1113.3	891.4	679.1	487.6	351.4	280.6	254.4	239.9	240.3
1424.4	12.5°	1292.7	1033.3	720.5	460.4	296.9	224.4	202.4	196.0	191.8	192.2
1447.4	15°	1286.3	939.2	551.7	306.8	212.3	190.0	184.7	181.9	179.1	178.7
1472.8	17.5°	1275.7	834.4	403.8	224.0	185.8	178.0	173.4	170.2	166.7	166.0
1494.8	20°	1259.8	715.5	295.1	189.3	174.1	168.1	161.7	157.5	153.2	152.5
1508.6	22.5°	1230.4	589.9	226.8	175.2	165.6	158.9	151.1	146.2	141.9	141.2
1501.9	25°	1175.9	472.1	191.1	166.3	158.2	150.0	141.6	134.8	130.9	130.2
1487.4	27.5°	1106.9	370.9	173.4	158.2	148.6	141.2	131.6	125.3	121.7	121.0
1468.2	30°	1025.5	285.6	163.1	149.0	137.3	130.9	122.4	117.1	115.0	115.0
1454.8	32.5°	937.8	228.3	158.9	139.8	127.4	120.3	113.6	111.5	110.8	110.4
1462.2	35°	855.3	198.2	156.8	132.4	118.5	111.8	109.0	109.3	110.8	110.8
1485.2	37.5°	782.1	188.6	155.7	127.0	110.8	104.7	106.5	109.7	108.3	108.3
1525.6	40°	715.9	189.7	155.0	123.1	104.4	100.9	104.4	101.9	98.4	98.0
1574.8	42.5°	665.3	198.5	153.6	120.0	100.5	98.0	96.6	92.7	92.4	93.1
1625.7	45°	628.5	206.3	153.2	118.5	96.3	91.7	89.9	86.0	93.1	94.8
1646.6	47.5°	585.0	206.3	153.2	113.6	89.2	87.4	84.6	80.3	87.4	89.2
1626.8	50°	528.7	193.2	147.2	107.9	83.5	82.5	77.5	72.2	70.8	71.8
1580.4	52.5°	457.6	169.5	132.0	100.1	77.9	75.7	69.7	65.8	64.8	64.8
1497.3	55°	376.5	141.9	111.5	88.8	71.8	67.9	63.7	61.9	60.9	60.2
1380.8	57.5°	306.1	116.4	89.5	78.9	66.2	61.2	59.8	57.7	55.9	54.9
1283.5	60°	251.3	91.7	74.0	70.1	60.5	55.9	55.6	52.7	48.1	47.4
1203.2	62.5°	193.9	67.2	62.3	60.9	54.9	51.0	50.3	44.6	37.5	36.1
1089.2	65°	137.0	52.4	50.3	53.4	48.8	45.3	43.5	35.0	27.6	26.5
911.6	67.5°	96.3	43.9	39.6	46.7	42.5	37.9	36.8	29.7	23.0	22.3
689.4	70°	68.7	35.7	32.6	40.0	34.0	33.3	31.1	24.8	18.8	18.0
341.1	72.5°	48.5	27.2	25.1	34.7	23.4	28.7	25.5	19.1	14.2	13.4
116.1	75°	35.7	19.5	17.7	20.2	17.0	21.6	18.0	12.7	8.8	8.5
52.4	77.5°	26.2	12.4	10.6	9.9	9.9	13.4	9.9	5.3	3.9	3.5
26.5	80°	18.4	5.7	5.0	4.2	3.9	3.2	1.4	0.7	0.4	0.4
9.2	82.5°	11.0	2.5	2.5	1.8	1.1	0.0	0.0	0.0	0.0	0.0
3.5	85°	2.5	1.1	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
1.4	87.5°	0.4	0.4	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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