

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: P945694

Luminaire Tested: **GALN-SB1C-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6625 lumens
Efficiency: N/A
Efficacy: 121.8 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

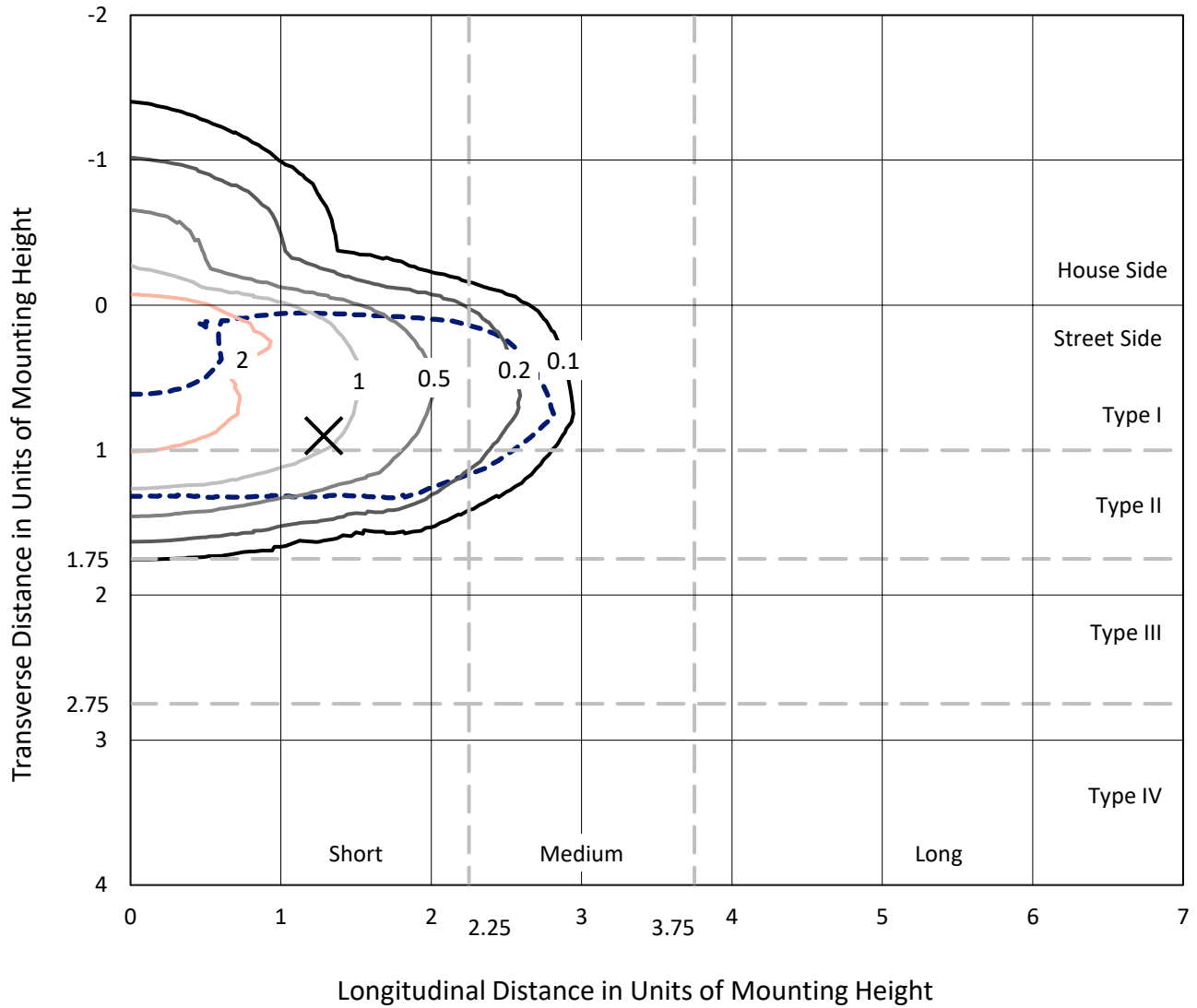
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

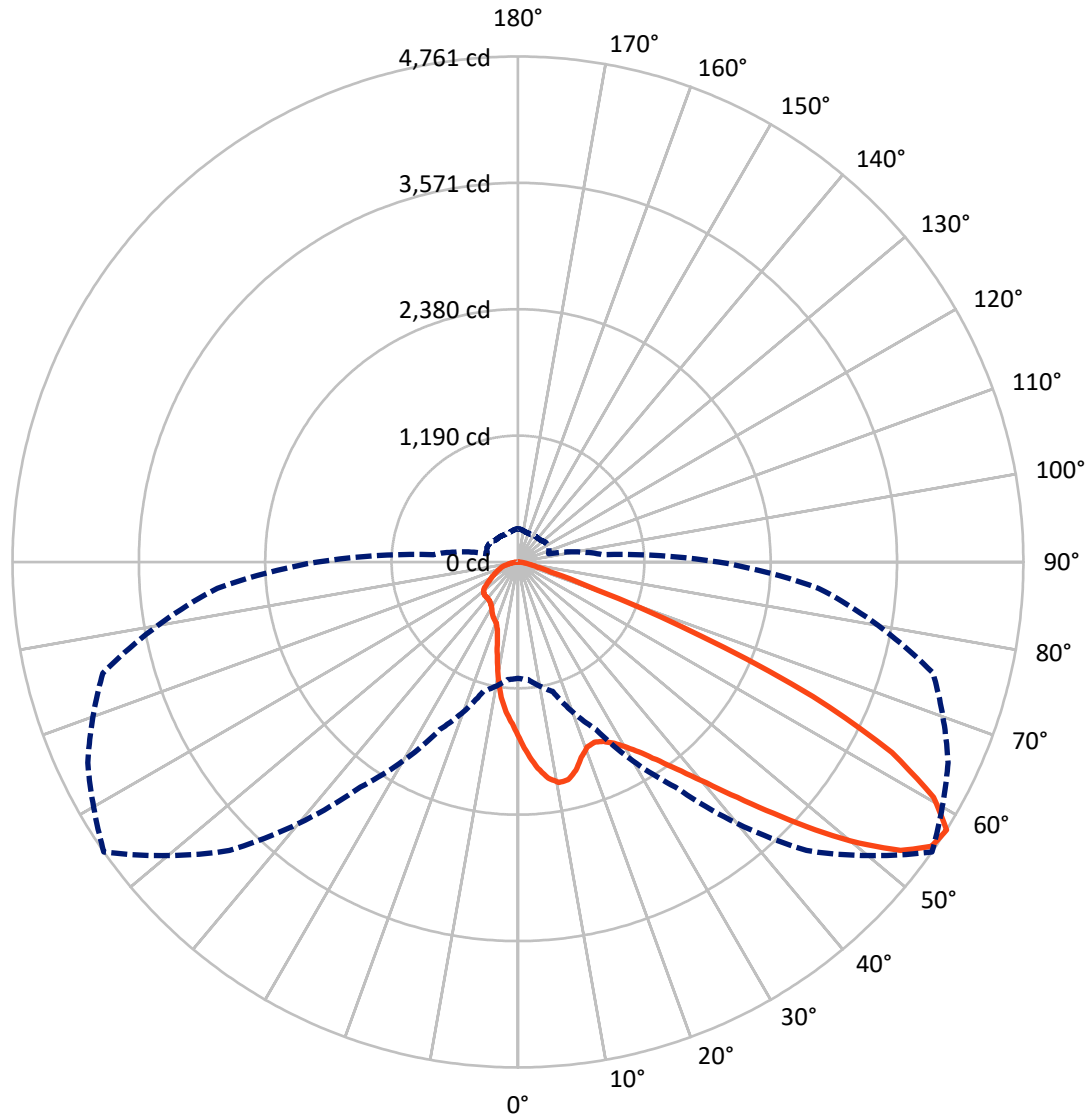
✕ Max cd
 - - - 1/2 Max cd



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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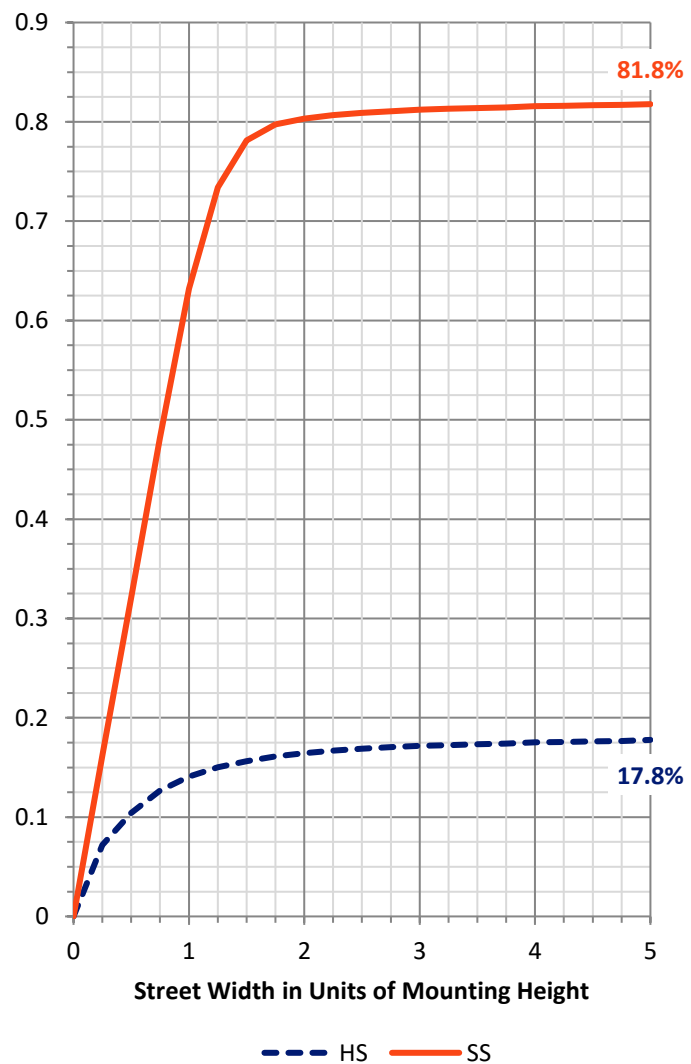
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1198.8	0.0	1198.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5426.2	0.0	5426.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	6625.0	0.0	6625.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	2.3
10°-20°	388.8	5.9
20°-30°	620.4	9.4
30°-40°	982.3	14.8
40°-50°	1503.5	22.7
50°-60°	1610.4	24.3
60°-70°	1013.1	15.3
70°-80°	299.6	4.5
80°-90°	53.0	0.8
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°	6625.0	100.0
0°-180°	6625.0	100.0

Coefficient of Utilization



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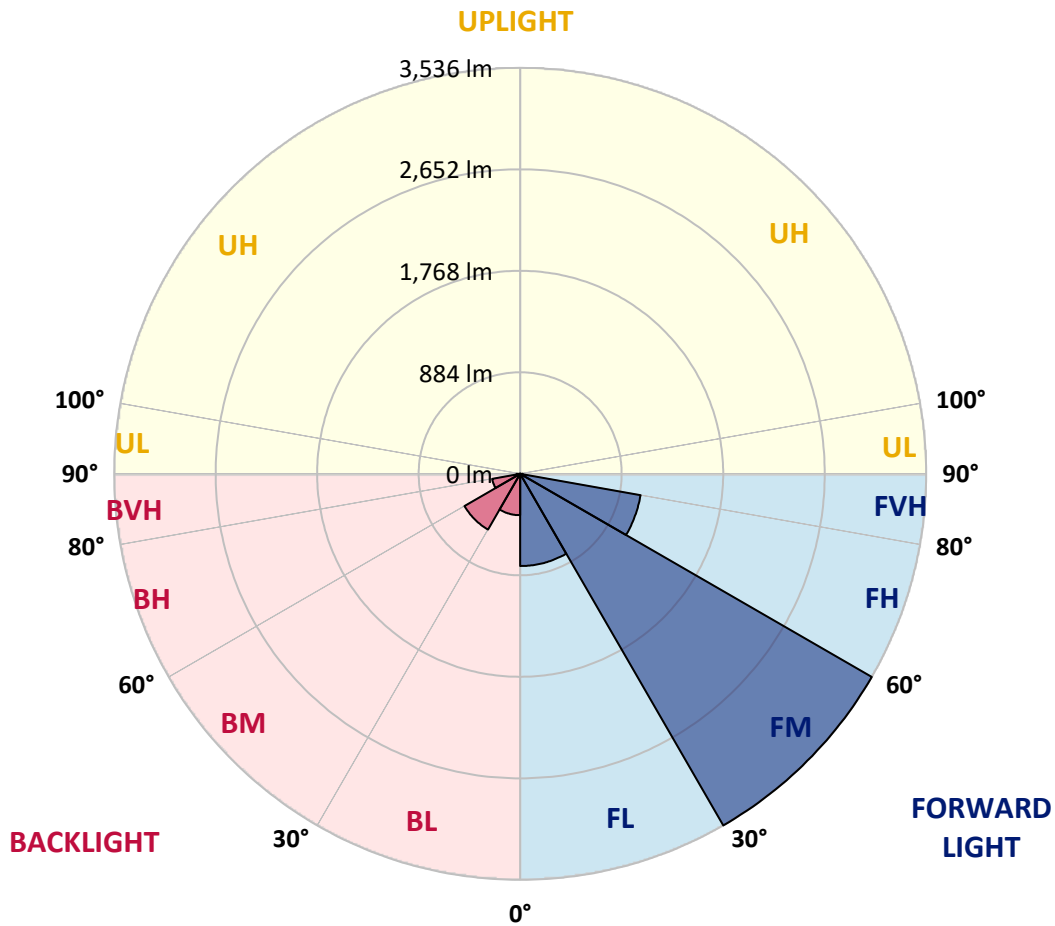
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.0	12.1			
FM (30°-60°)	3535.8	53.4			
FH (60°-80°)	1065.1	16.1			G1/1800
FVH (80°-90°)	22.4	0.3			G1/100
BL (0°-30°)	360.3	5.4	B1/500		
BM (30°-60°)	560.3	8.5	B1/1000		
BH (60°-80°)	247.6	3.7	B1/500		G1/500
BVH (80°-90°)	30.6	0.5			G1/100
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°	1660.0	1660.0	1660.0	1660.0	1660.0	1660.0	1660.0	1660.0	1660.0	1660.0
2.5°	1904.5	1903.2	1910.7	1885.0	1867.6	1843.9	1812.8	1773.0	1730.2	1685.0
5°	2076.1	2064.1	2072.0	2052.8	2033.7	1998.0	1951.8	1887.1	1808.0	1717.9
7.5°	2049.1	2040.8	2061.1	2078.2	2092.6	2088.1	2054.2	1986.4	1884.3	1753.5
10°	1830.9	1821.7	1850.1	1909.3	1996.3	2072.0	2113.1	2071.0	1962.4	1792.6
12.5°	1638.4	1634.0	1652.8	1700.8	1797.3	1942.6	2105.6	2145.0	2043.6	1838.8
15°	1556.2	1550.8	1562.7	1587.1	1648.7	1784.0	2037.1	2195.7	2123.4	1892.2
17.5°	1538.1	1531.9	1537.1	1549.7	1589.5	1692.5	1933.7	2220.7	2206.6	1951.8
20°	1571.6	1566.5	1567.2	1566.5	1594.3	1676.1	1861.7	2211.1	2279.2	2006.6
22.5°	1652.8	1644.3	1644.6	1626.4	1641.5	1704.9	1842.9	2185.4	2343.9	2054.5
25°	1785.0	1769.6	1772.7	1726.5	1722.3	1769.3	1872.3	2165.5	2408.3	2092.9
27.5°	1965.8	1948.4	1939.1	1870.3	1837.4	1860.7	1932.3	2172.4	2469.3	2126.1
30°	2191.9	2170.7	2151.8	2054.2	1994.6	1986.1	2025.4	2217.6	2541.2	2161.1
32.5°	2469.0	2444.3	2410.0	2280.6	2196.7	2151.8	2146.0	2298.1	2625.5	2205.6
35°	2798.8	2766.6	2717.9	2550.5	2444.3	2352.5	2304.9	2414.2	2740.9	2272.7
37.5°	3138.5	3102.2	3057.7	2858.4	2727.9	2592.6	2498.7	2571.7	2894.7	2363.8
40°	3451.9	3411.1	3369.7	3192.3	3052.2	2889.2	2736.1	2771.0	3082.7	2472.7
42.5°	3636.8	3606.7	3590.9	3495.0	3386.8	3221.4	3031.3	3007.3	3294.0	2598.1
45°	3628.6	3616.3	3664.9	3704.6	3678.9	3587.2	3377.2	3268.6	3506.0	2706.6
47.5°	3434.8	3443.0	3551.5	3774.8	3873.1	3921.1	3771.1	3525.2	3690.2	2787.8
50°	2907.3	2914.2	3165.6	3647.1	3923.1	4193.3	4161.8	3775.5	3833.1	2837.5
52.5°	2489.8	2494.3	2602.2	3268.3	3758.1	4330.3	4513.9	4011.5	3937.5	2851.2
55°	1875.4	1890.8	2011.7	2564.2	3328.6	4221.8	4728.3	4254.7	4003.6	2852.5
57.5°	1095.6	1112.4	1261.7	1740.5	2587.1	3843.3	4760.8	4470.4	4048.5	2841.6
60°	536.7	543.9	608.9	914.8	1595.3	3114.2	4499.2	4574.9	4073.5	2835.8
62.5°	361.7	360.6	363.4	451.4	786.0	2000.8	3954.0	4392.0	4060.1	2813.5
65°	311.0	307.2	296.9	316.8	407.2	915.1	3054.9	3846.1	3958.4	2757.7
67.5°	268.8	269.2	269.5	263.4	290.8	422.3	1866.9	3029.6	3593.3	2493.3
70°	222.6	225.7	227.1	227.1	237.0	277.1	797.0	2076.5	2834.4	1954.9
72.5°	202.7	196.2	196.9	193.5	193.5	211.0	320.9	1177.1	1785.7	1099.7
75°	165.4	169.5	170.2	167.8	159.9	161.0	190.4	493.9	764.1	456.2
77.5°	142.8	142.8	144.2	142.5	136.3	120.6	127.1	191.4	259.9	187.0
80°	114.7	114.4	120.2	123.6	114.0	89.0	81.2	105.8	115.4	82.2
82.5°	55.8	59.2	82.5	94.2	86.6	64.4	49.7	65.8	61.6	36.3
85°	32.5	30.8	37.0	52.4	49.7	35.6	24.0	34.2	32.2	18.5
87.5°	10.3	9.6	7.5	17.8	14.4	9.9	6.5	9.9	8.9	4.1
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°
1660.0	0°	1660.0	1660.0	1660.0	1660.0	1660.0	1660.0	1660.0	1660.0	1660.0	1660.0
1665.5	2.5°	1641.2	1600.8	1560.7	1524.0	1501.8	1487.4	1473.0	1456.9	1450.8	1441.5
1669.9	5°	1624.7	1546.6	1477.1	1417.2	1362.7	1319.9	1276.8	1241.8	1226.1	1236.7
1684.0	7.5°	1615.1	1502.1	1394.9	1285.0	1179.2	1094.6	1020.9	969.2	945.9	951.8
1697.7	10°	1606.6	1451.8	1288.4	1114.8	962.7	857.9	782.6	743.2	728.5	731.5
1716.2	12.5°	1598.7	1395.3	1160.0	931.6	769.9	700.7	679.1	679.5	682.2	684.3
1745.6	15°	1597.3	1327.1	1016.5	771.3	665.8	661.3	684.6	699.3	707.2	709.6
1770.3	17.5°	1595.3	1245.6	870.2	662.0	640.4	670.6	692.2	701.7	707.9	708.3
1794.3	20°	1587.1	1142.2	735.3	610.0	635.0	661.0	674.3	681.9	687.0	688.7
1812.4	22.5°	1561.7	1027.1	630.2	586.7	613.0	633.9	649.7	658.3	661.3	663.4
1815.8	25°	1516.2	898.3	557.6	564.4	582.6	608.9	621.6	623.3	622.3	625.4
1807.3	27.5°	1456.6	760.3	512.4	534.3	557.6	580.2	587.0	586.0	583.9	587.4
1792.6	30°	1384.7	636.3	483.6	500.4	532.2	552.8	558.9	556.5	552.4	556.2
1785.0	32.5°	1308.6	535.0	460.0	476.7	511.3	531.5	537.7	535.3	532.2	535.3
1793.6	35°	1237.7	464.1	438.0	461.0	494.9	514.8	522.6	523.0	523.0	526.7
1816.2	37.5°	1172.7	422.6	419.9	451.0	483.6	501.4	512.7	513.4	498.7	499.7
1854.5	40°	1112.4	405.2	411.7	444.5	472.6	489.7	490.4	452.1	425.0	424.3
1898.4	42.5°	1063.1	401.7	414.1	443.9	464.7	465.4	417.1	387.3	379.8	380.2
1938.8	45°	1016.8	400.7	419.5	443.9	453.1	402.1	369.5	361.7	362.3	365.1
1956.9	47.5°	965.1	396.6	420.6	437.7	419.5	357.6	348.0	344.5	343.2	343.9
1952.8	50°	908.6	381.9	407.6	425.4	362.0	338.4	326.4	325.4	327.1	328.1
1929.9	52.5°	849.0	357.9	385.3	403.1	335.6	321.6	308.2	310.6	318.2	320.6
1905.9	55°	810.0	329.8	355.8	358.6	317.1	305.8	294.5	300.0	314.1	318.5
1891.5	57.5°	799.7	300.0	322.3	319.2	293.5	292.1	285.3	290.1	307.9	314.4
1890.8	60°	796.6	273.3	289.4	287.0	270.6	277.1	275.4	277.8	283.9	286.0
1884.0	62.5°	772.6	252.1	259.9	256.5	250.0	261.3	265.4	260.3	265.1	267.5
1837.1	65°	711.7	234.9	231.2	228.8	231.5	241.8	250.0	239.7	244.2	251.0
1656.2	67.5°	611.0	211.7	201.4	204.1	212.7	218.2	228.8	217.1	220.9	232.5
1334.0	70°	494.2	182.2	173.0	180.8	189.1	200.4	202.1	194.2	203.1	216.1
814.1	72.5°	349.7	152.4	145.9	162.0	164.7	179.5	175.7	171.9	184.3	188.7
402.4	75°	242.5	123.0	119.2	131.5	141.4	154.1	151.4	155.8	181.9	183.9
201.0	77.5°	153.4	95.6	93.2	101.0	114.7	128.8	133.2	183.9	310.6	323.0
104.5	80°	89.0	71.2	68.5	74.7	86.6	99.7	128.4	225.7	204.8	202.4
46.9	82.5°	49.7	49.0	45.6	47.3	57.9	71.9	181.5	158.9	129.1	133.2
18.8	85°	23.3	28.8	24.7	23.6	32.5	84.3	121.2	90.8	60.3	58.9
4.1	87.5°	6.2	5.5	5.5	6.2	13.7	72.6	48.3	38.7	22.9	22.3
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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