

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: STREETWORKS

Report Number: P847978

Luminaire Tested: **GLAN-SB4B-827-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P847978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4B-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18006 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

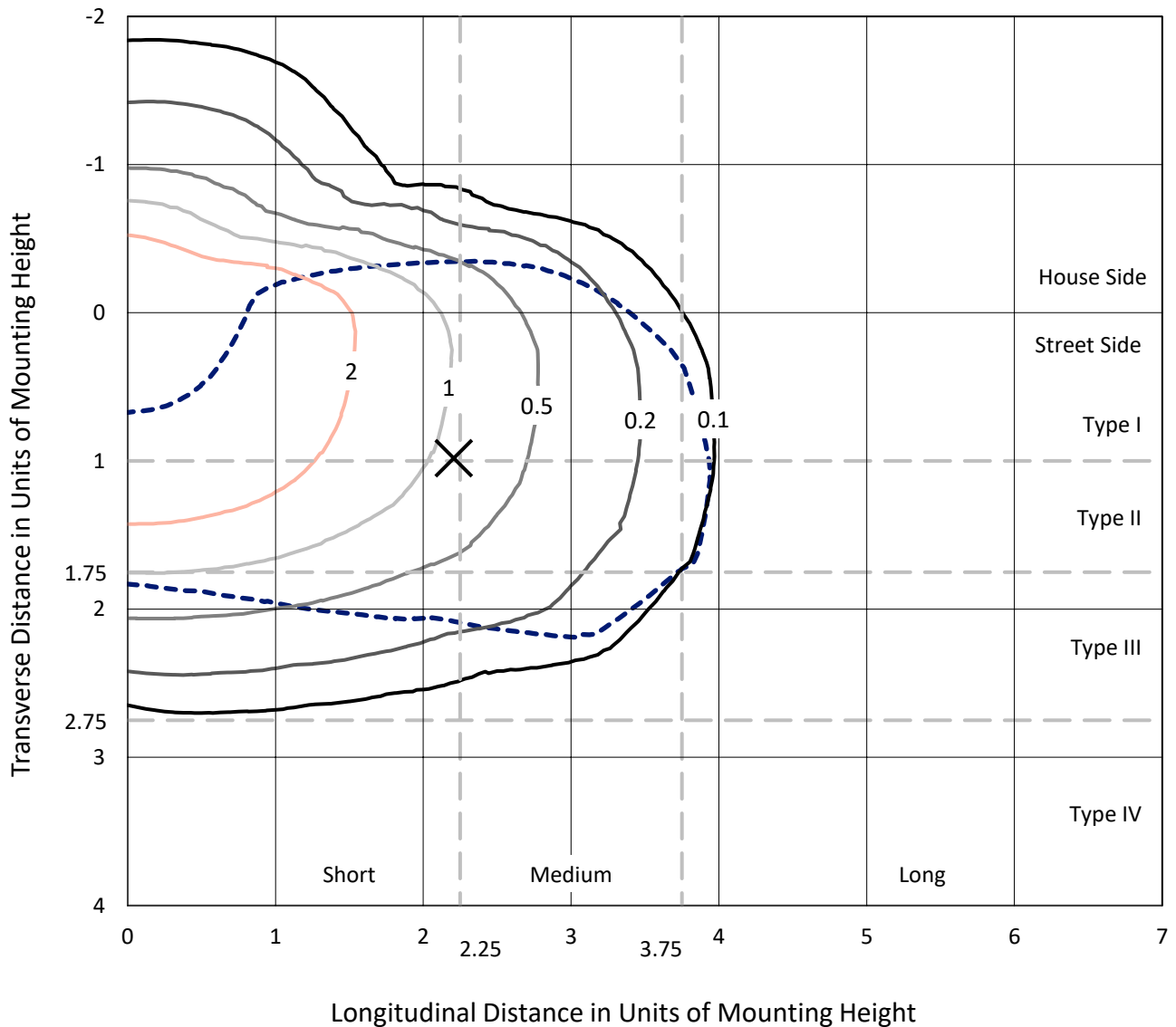
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

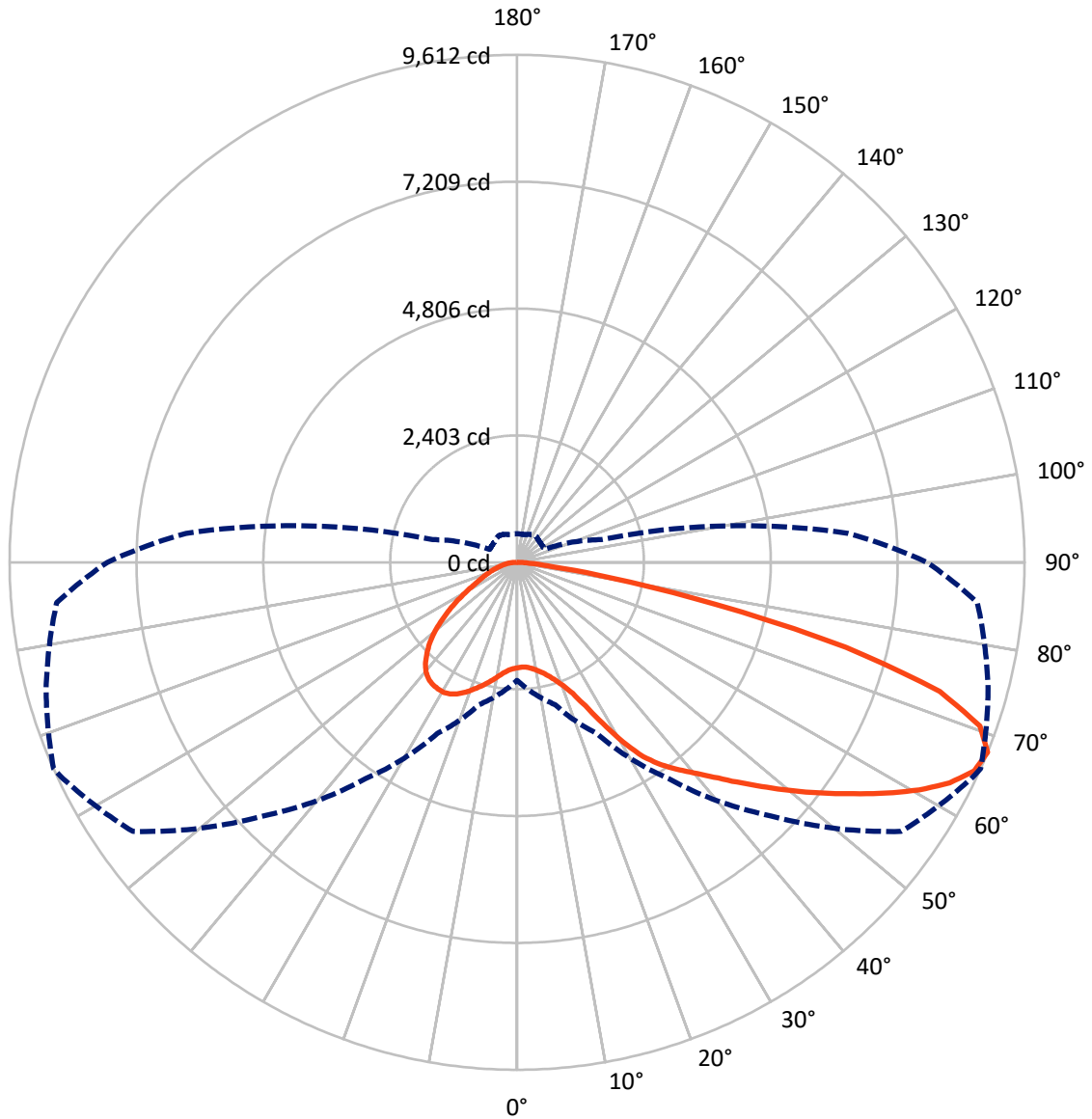
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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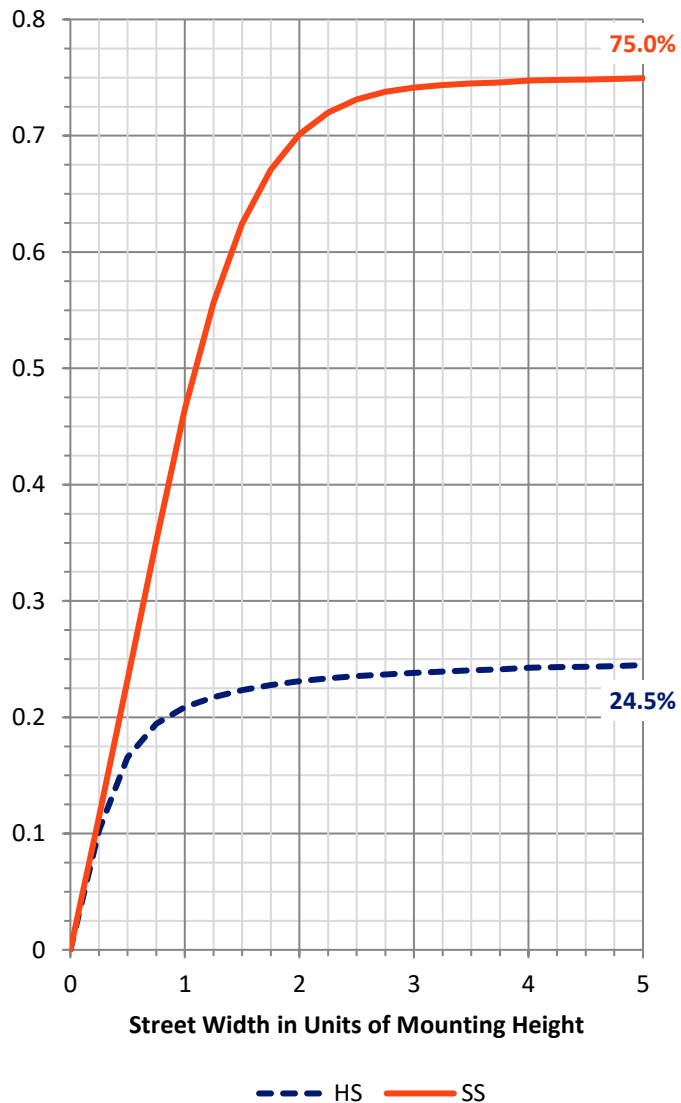
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4477.1	0.0	4477.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	13528.9	0.0	13528.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	18006.0	0.0	18006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	1.1
10°-20°	654.2	3.6
20°-30°	1260.9	7.0
30°-40°	2210.8	12.3
40°-50°	3286.8	18.3
50°-60°	4166.3	23.1
60°-70°	4076.6	22.6
70°-80°	1944.6	10.8
80°-90°	207.8	1.2
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°	18006.0	100.0
0°-180°	18006.0	100.0

Coefficient of Utilization



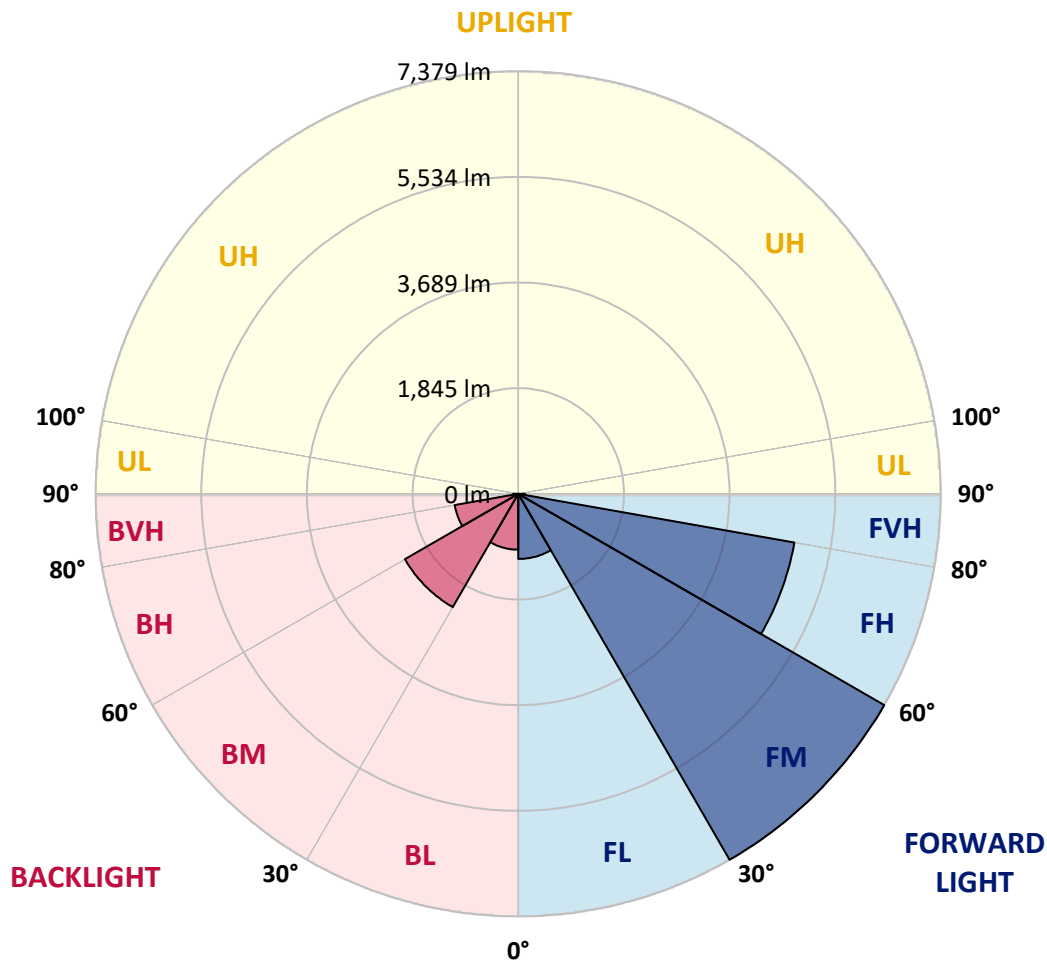
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1137.8	6.3			
FM (30°-60°)	7378.7	41.0			
FH (60°-80°)	4894.5	27.2			G2/5000
FVH (80°-90°)	117.8	0.7			G2/225
BL (0°-30°)	975.3	5.4	B2/1000		
BM (30°-60°)	2285.2	12.7	B2/2500		
BH (60°-80°)	1126.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	90.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1
2.5°	1976.3	1987.6	1984.8	1980.1	1979.1	1981.0	1983.9	1986.7	1985.8	1990.5
5°	1970.6	1982.0	1981.0	1981.0	1984.8	1992.4	1997.1	2001.8	1997.1	2002.8
7.5°	1974.4	1982.9	1986.7	1990.5	1999.9	2014.1	2025.5	2035.9	2030.2	2036.8
10°	2022.6	2029.3	2033.1	2033.1	2039.7	2055.8	2067.1	2086.0	2081.3	2091.7
12.5°	2110.6	2117.3	2117.3	2113.5	2118.2	2128.6	2132.4	2153.2	2144.7	2161.7
15°	2218.5	2231.7	2221.3	2214.7	2216.6	2227.0	2226.0	2242.1	2233.6	2247.8
17.5°	2337.7	2354.7	2337.7	2336.7	2332.9	2344.3	2345.2	2359.4	2344.3	2354.7
20°	2478.6	2502.3	2488.1	2492.8	2484.3	2489.0	2493.8	2514.6	2490.9	2498.5
22.5°	2677.3	2705.7	2690.6	2708.5	2702.9	2699.1	2698.1	2735.0	2698.1	2701.0
25°	2966.8	3000.9	2974.4	2999.0	2999.0	3011.3	3025.5	3072.8	3011.3	2993.3
27.5°	3394.4	3428.5	3376.4	3391.6	3386.8	3417.1	3402.0	3519.3	3453.1	3423.7
30°	3909.1	3969.6	3871.2	3867.4	3862.7	3911.0	3932.7	4010.3	3943.1	3913.8
32.5°	4465.3	4528.7	4411.4	4377.4	4359.4	4388.7	4370.7	4433.2	4386.8	4341.4
35°	5053.8	5116.2	5004.6	4938.4	4866.5	4805.0	4740.6	4756.7	4713.2	4644.1
37.5°	5610.1	5724.5	5606.3	5535.3	5402.9	5282.7	5103.0	5028.2	4987.6	4924.2
40°	6176.7	6242.0	6152.1	6091.6	5947.8	5759.5	5471.9	5313.9	5259.1	5197.6
42.5°	6593.9	6656.4	6608.1	6566.5	6453.9	6235.4	5863.6	5665.9	5586.4	5517.3
45°	6925.1	6971.4	6941.1	6956.3	6908.0	6696.1	6269.4	6043.3	5961.0	5876.8
47.5°	7058.5	7107.6	7155.9	7245.8	7328.1	7172.0	6705.6	6452.0	6365.0	6278.9
50°	7043.3	7093.5	7233.5	7424.6	7680.0	7628.0	7165.4	6887.2	6806.8	6708.4
52.5°	6922.2	6979.0	7158.7	7476.6	7883.4	7969.5	7633.6	7336.6	7260.9	7143.6
55°	6604.3	6638.4	6908.0	7358.3	7931.7	8207.9	8092.5	7815.3	7739.6	7575.9
57.5°	6015.0	6064.2	6456.8	7039.5	7810.6	8369.7	8495.5	8318.6	8245.7	8010.2
60°	5245.8	5324.3	5773.7	6504.1	7502.1	8368.7	8861.6	8813.4	8752.8	8437.8
62.5°	4375.5	4466.3	4898.6	5747.2	6962.9	8131.3	9090.6	9227.7	9196.5	8832.3
65°	3360.4	3422.8	3853.2	4768.1	6123.8	7621.3	9117.0	9510.6	9516.3	9132.2
67.5°	2237.4	2417.1	2790.8	3577.9	4999.9	6787.9	8884.3	9557.0	9611.8	9235.3
70°	1091.7	1328.2	1694.4	2325.4	3577.9	5509.8	8276.0	9176.6	9298.7	8934.5
72.5°	453.2	529.8	729.4	1147.6	2053.9	3718.0	7053.7	8145.5	8371.6	7916.5
75°	305.6	331.1	417.2	588.4	935.6	1833.4	5086.9	6073.6	6437.8	5979.0
77.5°	235.6	251.6	303.7	411.5	556.3	693.5	2722.7	3660.3	3848.5	3562.8
80°	185.4	197.7	227.1	299.9	394.5	370.9	928.1	1658.4	1767.2	1482.5
82.5°	160.8	165.6	162.7	203.4	262.1	216.6	304.6	612.1	675.5	490.1
85°	116.4	129.6	135.3	125.8	139.1	109.7	124.9	216.6	238.4	212.9
87.5°	47.3	70.0	86.1	81.4	51.1	31.2	38.8	63.4	72.8	79.5
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1997.1	0°	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1	1997.1
1998.0	2.5°	1999.0	2005.6	2010.3	2016.0	2019.8	2025.5	2036.8	2043.5	2044.4	2049.1
2013.2	5°	2017.0	2026.4	2036.8	2052.0	2069.0	2083.2	2105.0	2120.1	2125.8	2130.5
2050.1	7.5°	2055.8	2069.0	2087.9	2114.4	2139.0	2157.9	2184.4	2202.4	2220.4	2227.0
2108.7	10°	2113.5	2132.4	2159.8	2195.8	2222.3	2246.9	2274.3	2289.4	2307.4	2315.0
2178.7	12.5°	2185.4	2205.2	2241.2	2291.3	2315.9	2332.9	2342.4	2338.6	2342.4	2349.0
2262.9	15°	2267.7	2289.4	2330.1	2384.0	2401.1	2385.9	2365.1	2346.2	2343.4	2345.2
2365.1	17.5°	2365.1	2381.2	2428.5	2473.9	2461.6	2399.2	2353.8	2323.5	2308.4	2303.6
2495.7	20°	2501.3	2501.3	2540.1	2568.5	2486.2	2380.3	2309.3	2260.1	2228.9	2215.6
2673.5	22.5°	2666.9	2651.8	2676.4	2656.5	2481.5	2327.3	2228.9	2143.7	2096.4	2077.5
2922.3	25°	2876.9	2859.0	2852.3	2729.3	2447.4	2243.1	2083.2	1980.1	1938.4	1928.0
3280.9	27.5°	3193.9	3148.4	3062.4	2769.1	2385.0	2110.6	1912.9	1817.4	1793.7	1794.6
3741.6	30°	3615.8	3525.0	3314.0	2775.7	2282.8	1923.3	1738.8	1670.7	1659.4	1664.1
4128.5	32.5°	4006.5	3920.4	3571.3	2745.4	2125.8	1739.8	1582.7	1537.3	1520.3	1526.0
4423.7	35°	4313.0	4289.4	3809.7	2702.9	1932.8	1567.6	1442.7	1403.9	1370.8	1363.3
4701.8	37.5°	4602.5	4593.1	3988.5	2643.3	1741.7	1445.6	1330.1	1279.1	1230.8	1204.3
5009.3	40°	4920.4	4910.9	4105.8	2551.5	1572.3	1339.6	1228.9	1161.7	1102.1	1053.9
5357.5	42.5°	5278.0	5222.2	4161.7	2420.0	1428.5	1249.7	1146.6	1055.8	977.3	932.8
5751.0	45°	5668.7	5542.9	4160.7	2252.5	1307.4	1167.4	1058.6	930.0	857.1	815.5
6155.0	47.5°	6083.1	5849.4	4109.6	2067.1	1190.1	1076.6	922.4	824.0	775.8	750.2
6593.9	50°	6510.7	6136.1	4022.6	1854.3	1070.0	973.5	837.3	770.1	733.2	709.5
7029.1	52.5°	6912.8	6396.2	3917.6	1613.0	947.9	873.2	799.4	747.4	708.6	682.1
7451.1	55°	7286.4	6620.4	3769.0	1366.1	848.6	806.0	781.4	737.9	693.5	662.2
7879.6	57.5°	7618.5	6766.1	3512.7	1134.3	777.6	759.7	762.5	721.8	670.7	644.3
8301.6	60°	7894.8	6873.0	3133.3	919.6	719.9	714.3	733.2	691.6	632.0	601.7
8658.2	62.5°	8060.3	6871.1	2667.9	753.1	670.7	672.6	694.4	653.7	593.2	564.8
8844.6	65°	8046.1	6702.7	2157.0	644.3	623.4	625.3	653.7	612.1	561.0	544.0
8750.9	67.5°	7761.4	6292.2	1654.6	573.3	571.4	579.9	613.0	583.7	541.1	539.2
8192.8	70°	6990.3	5439.8	1192.0	516.5	517.5	529.8	573.3	565.7	530.7	534.5
6888.2	72.5°	5605.3	4147.5	800.4	456.9	457.9	477.8	535.5	551.5	520.3	570.5
4887.3	75°	3733.1	2586.5	514.6	393.6	394.5	420.0	502.4	524.1	491.9	568.6
2543.0	77.5°	1793.7	1162.7	372.7	331.1	331.1	354.8	434.2	469.2	419.1	441.8
817.4	80°	619.7	437.1	293.3	266.8	261.1	277.2	366.1	406.8	361.4	333.0
266.8	82.5°	244.1	227.1	235.6	207.2	188.3	198.7	284.8	335.8	265.8	240.3
150.4	85°	140.0	147.6	166.5	137.2	108.8	122.0	209.1	241.2	200.6	176.9
49.2	87.5°	37.8	52.0	76.6	71.0	49.2	52.0	99.3	133.4	115.4	88.9
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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180°
1997.1
2048.2
2129.5
2227.9
2318.8
2350.9
2351.9
2310.2
2212.8
2074.7
1929.9
1797.5
1680.2
1533.5
1368.9
1205.3
1058.6
935.6
813.6
744.5
701.0
670.7
649.9
627.2
588.4
556.3
543.0
542.1
533.6
578.0
573.3
404.9
312.2
239.3
180.7
91.8
0.0

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