

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: P947072

Luminaire Tested: **GALN-SB2C-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-740-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16057 lumens
Efficiency: N/A
Efficacy: 159.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

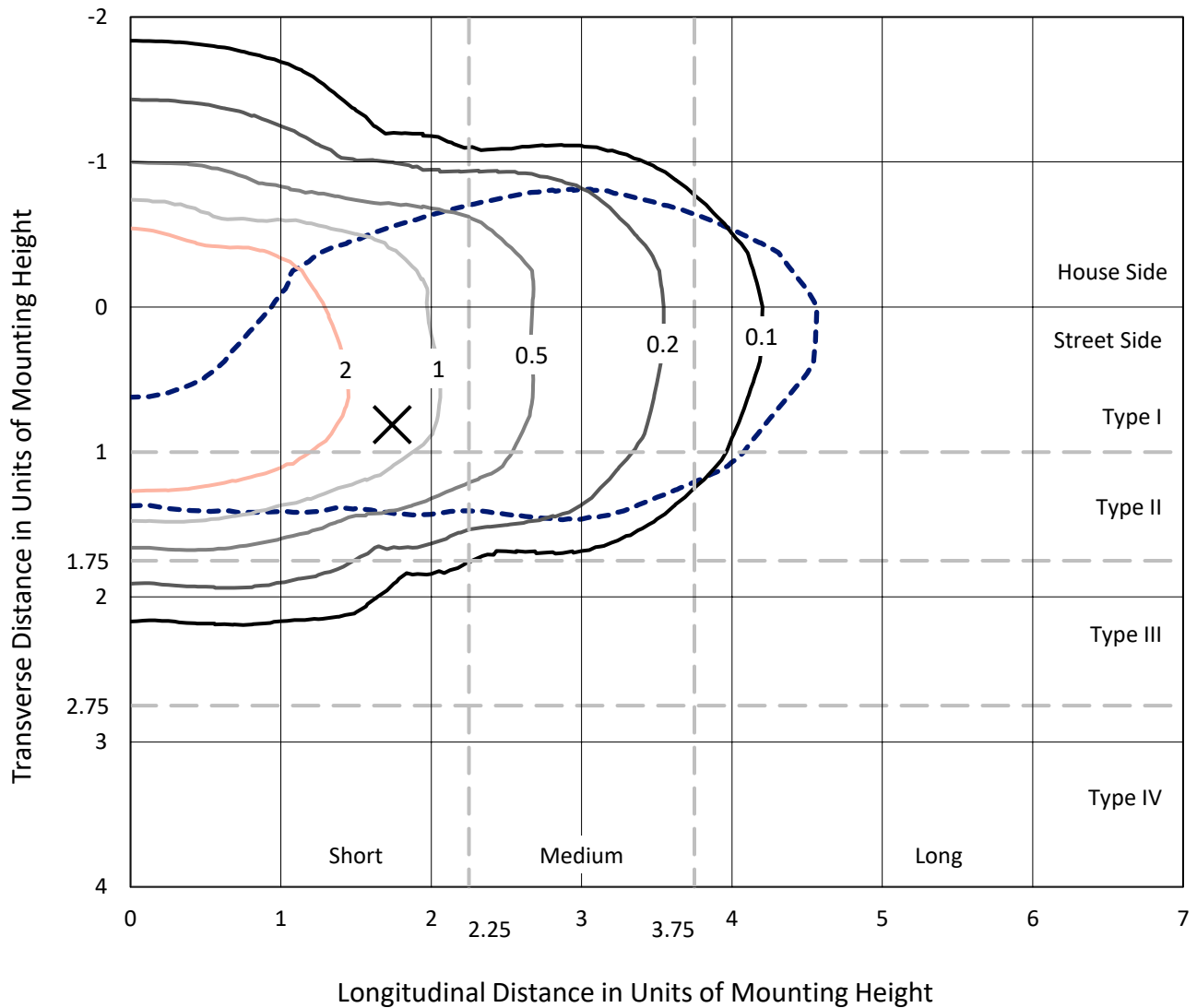
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

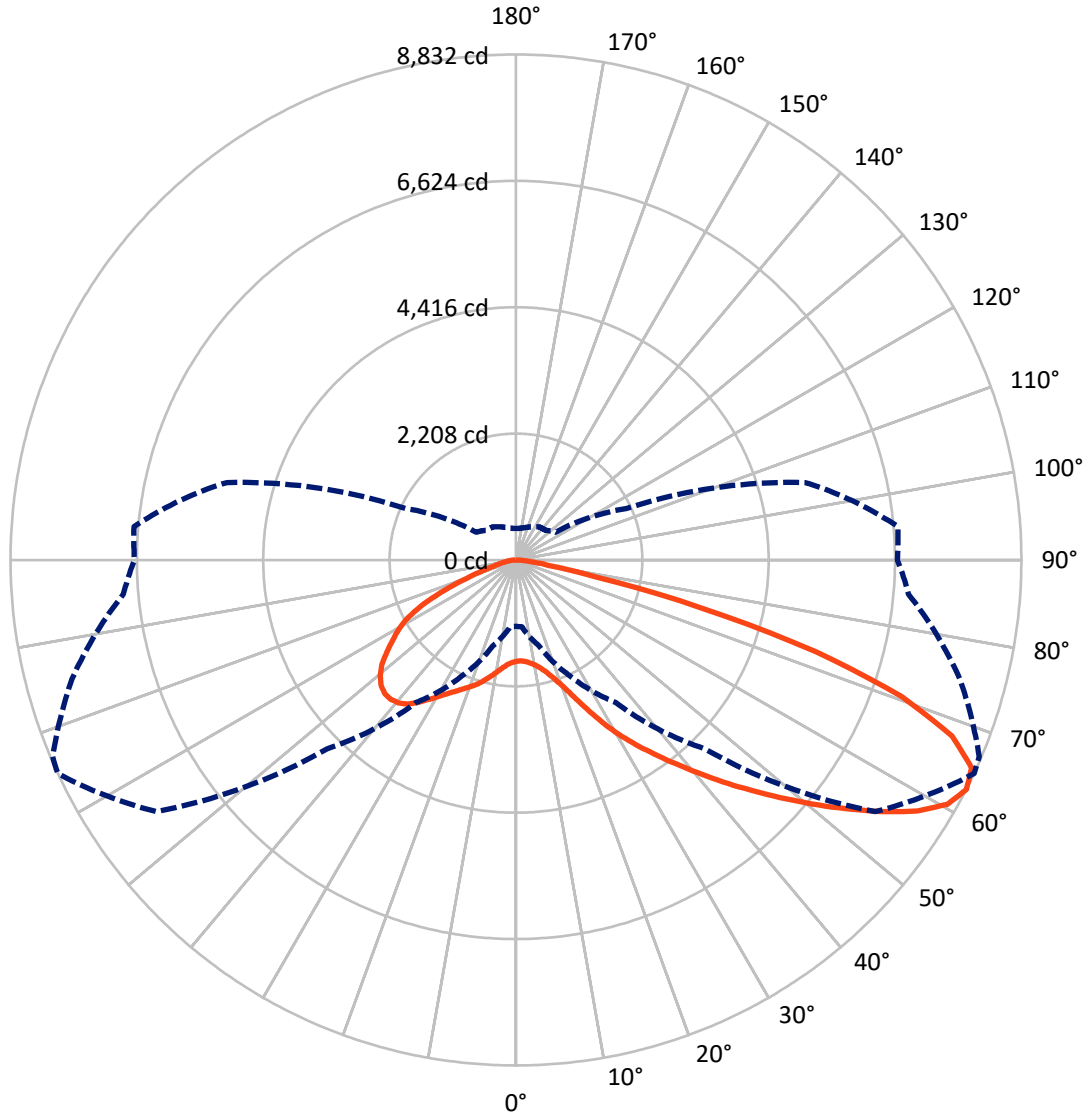
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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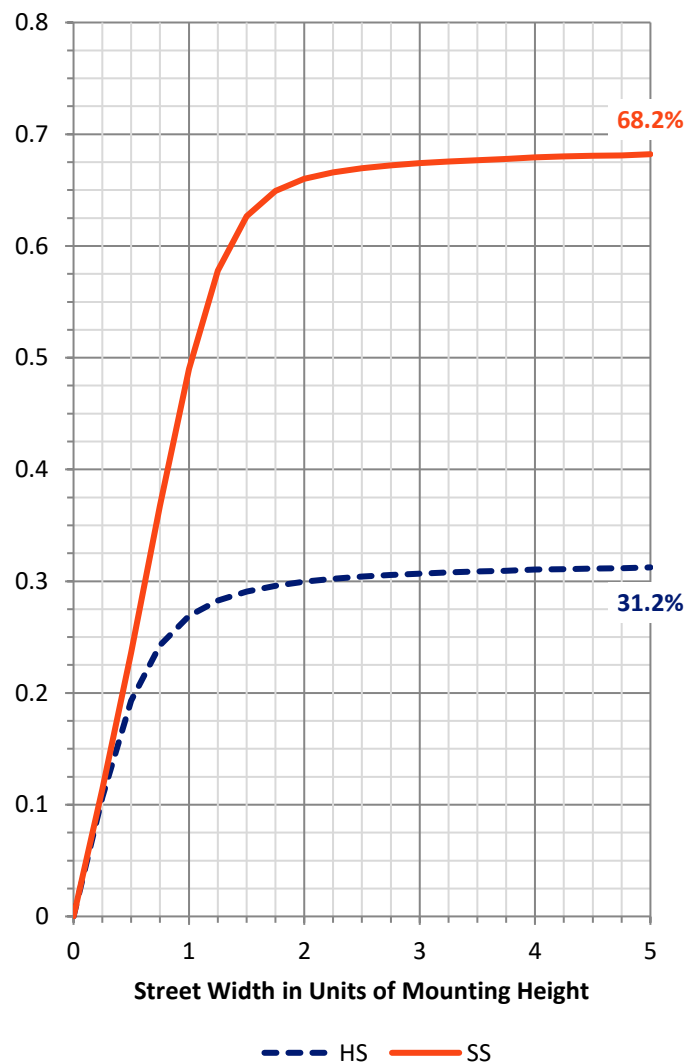
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5066.9	0.0	5066.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	10990.1	0.0	10990.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	16057.0	0.0	16057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	1.1
10°-20°	598.2	3.7
20°-30°	1212.9	7.6
30°-40°	2099.0	13.1
40°-50°	3176.4	19.8
50°-60°	3724.1	23.2
60°-70°	3122.2	19.4
70°-80°	1723.7	10.7
80°-90°	223.9	1.4
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°	16057.0	100.0
0°-180°	16057.0	100.0

Coefficient of Utilization



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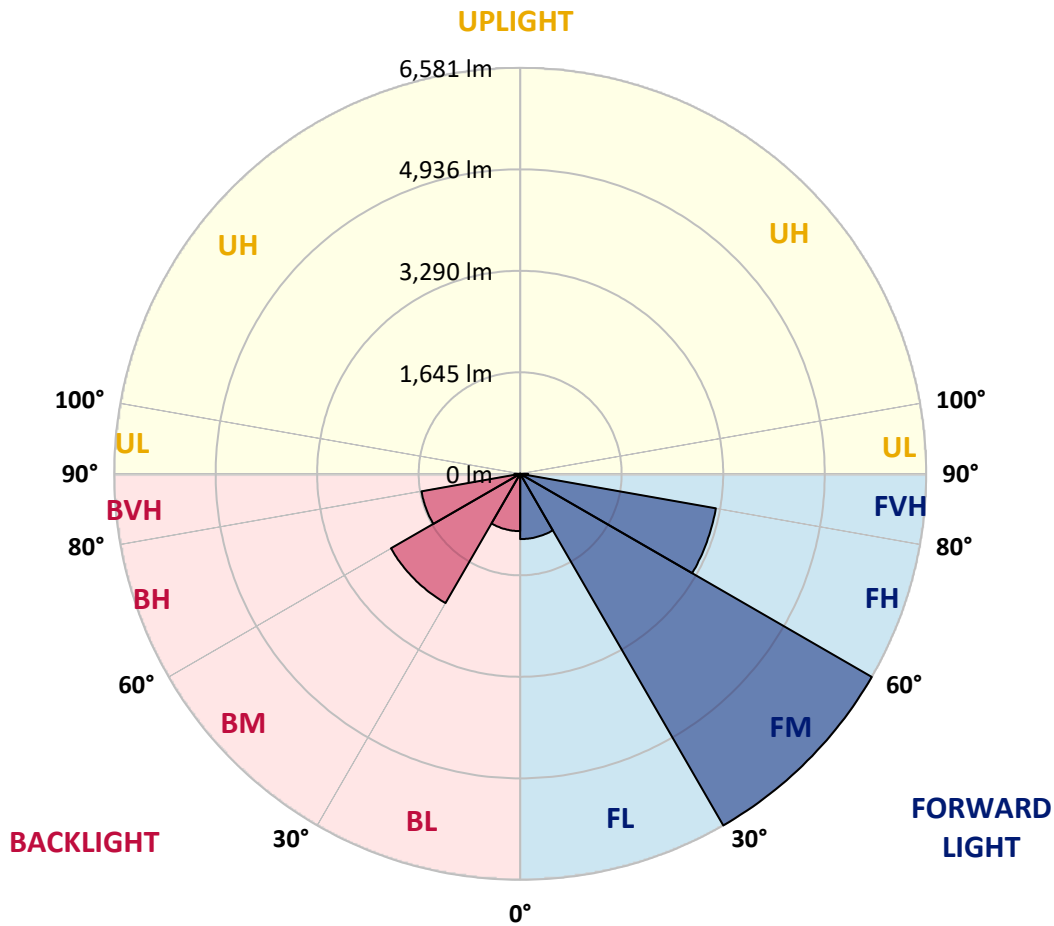
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1058.4	6.6			
FM (30°-60°)	6580.7	41.0			
FH (60°-80°)	3220.6	20.1			G2/5000
FVH (80°-90°)	130.5	0.8			G2/225
BL (0°-30°)	929.2	5.8	B2/1000		
BM (30°-60°)	2418.9	15.1	B2/2500		
BH (60°-80°)	1625.4	10.1	B3/2500		G3/2500
BVH (80°-90°)	93.4	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4
2.5°	1757.7	1752.8	1756.9	1756.9	1758.6	1757.7	1763.6	1765.2	1767.7	1772.7
5°	1740.3	1739.4	1746.9	1753.6	1760.2	1766.1	1773.6	1784.4	1786.1	1791.9
7.5°	1734.4	1729.4	1741.1	1749.4	1765.2	1779.4	1799.4	1817.7	1825.2	1827.7
10°	1779.4	1771.1	1781.9	1786.9	1800.2	1814.4	1837.7	1866.9	1875.2	1885.2
12.5°	1856.0	1846.9	1862.7	1870.2	1882.7	1895.2	1911.0	1939.4	1943.5	1961.8
15°	1961.0	1950.2	1960.2	1969.3	1990.2	2001.8	2017.7	2045.2	2045.2	2059.3
17.5°	2103.5	2089.3	2096.8	2100.1	2113.5	2131.0	2157.6	2181.8	2194.3	2189.3
20°	2315.9	2298.4	2298.4	2281.7	2276.7	2290.9	2325.9	2359.2	2372.5	2346.7
22.5°	2635.0	2610.0	2595.8	2539.2	2516.7	2518.3	2553.3	2594.1	2605.0	2559.1
25°	3040.7	3001.5	2982.3	2899.0	2848.2	2804.1	2831.6	2884.0	2899.0	2842.4
27.5°	3446.4	3448.9	3430.5	3330.6	3246.4	3165.6	3151.5	3206.4	3222.3	3158.1
30°	4015.3	3956.2	3921.2	3801.2	3681.3	3568.0	3509.7	3532.2	3536.3	3459.7
32.5°	4506.0	4491.0	4416.0	4311.1	4157.0	3979.5	3882.0	3846.2	3839.6	3730.4
35°	5065.0	5056.7	4977.5	4852.6	4685.9	4439.4	4263.6	4161.1	4152.8	3999.5
37.5°	5633.1	5633.1	5555.7	5419.0	5246.6	4938.4	4670.9	4508.5	4481.8	4281.9
40°	6086.3	6058.8	6073.0	6015.5	5818.1	5490.7	5123.3	4887.5	4851.7	4611.8
42.5°	6343.7	6334.6	6419.5	6483.7	6402.9	6141.3	5621.5	5298.2	5248.3	4975.0
45°	6401.2	6391.2	6542.8	6777.7	6891.0	6783.6	6163.0	5730.6	5669.8	5354.9
47.5°	6268.7	6248.8	6471.2	6841.9	7205.1	7394.2	6749.4	6199.6	6111.3	5724.8
50°	5870.5	5851.4	6187.9	6680.3	7310.9	7809.1	7385.9	6696.9	6562.0	6121.3
52.5°	5005.0	5014.2	5541.5	6217.9	7171.8	8067.3	7934.0	7220.9	7058.5	6527.0
55°	3898.7	3918.7	4566.8	5311.6	6615.3	8028.2	8308.1	7760.8	7599.1	6908.5
57.5°	2791.6	2879.9	3487.2	4224.4	5546.5	7407.5	8389.7	8273.9	8117.3	7325.1
60°	1809.4	1825.2	2450.0	3193.1	4223.6	6304.6	8223.9	8663.0	8540.5	7749.9
62.5°	1159.6	1170.4	1551.2	2233.4	3039.8	4664.3	7665.8	8832.1	8794.6	8030.7
65°	852.2	843.9	1042.2	1476.2	2047.7	2876.5	6582.0	8750.4	8824.6	8206.4
67.5°	711.4	699.8	797.2	1022.2	1508.7	1633.6	4870.0	8219.8	8491.3	8186.4
70°	648.1	638.1	697.3	758.9	1177.1	1093.8	2455.0	7146.0	7564.2	7959.0
72.5°	549.0	531.5	612.3	673.9	915.5	838.9	1014.7	5489.0	5998.8	7230.1
75°	425.7	414.0	483.2	593.1	688.1	654.8	641.5	3333.1	3889.5	5591.5
77.5°	337.4	321.6	384.9	462.3	619.0	494.0	467.3	1435.4	1986.8	3569.6
80°	254.1	239.9	292.4	365.7	475.7	372.4	302.4	585.6	748.9	1808.6
82.5°	180.8	168.3	204.1	268.2	319.9	334.1	185.8	328.2	369.0	697.3
85°	115.8	108.3	136.6	168.3	203.3	214.9	113.3	171.6	188.3	287.4
87.5°	63.3	51.6	73.3	78.3	94.1	85.8	54.1	62.5	67.5	104.1
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1769.4	0°	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4
1772.7	2.5°	1776.1	1778.6	1786.9	1789.4	1795.2	1802.7	1807.7	1812.7	1812.7	1817.7
1799.4	5°	1800.2	1806.1	1823.6	1832.7	1847.7	1862.7	1871.9	1882.7	1889.4	1892.7
1841.9	7.5°	1846.9	1856.0	1881.0	1896.9	1922.7	1943.5	1957.7	1972.7	1976.0	1985.2
1901.0	10°	1910.2	1921.0	1949.4	1979.3	2010.2	2036.0	2049.3	2060.1	2064.3	2066.0
1976.8	12.5°	1982.7	1998.5	2035.2	2071.8	2104.3	2126.8	2130.1	2127.6	2116.0	2106.0
2070.1	15°	2071.8	2086.0	2126.8	2166.8	2198.4	2202.6	2181.8	2168.4	2154.3	2151.8
2174.3	17.5°	2178.4	2185.9	2223.4	2262.6	2265.1	2250.9	2220.1	2207.6	2194.3	2185.1
2310.1	20°	2302.6	2300.1	2326.7	2343.4	2325.9	2282.6	2235.9	2215.1	2201.8	2190.9
2476.7	22.5°	2450.9	2431.7	2428.4	2424.2	2377.5	2286.7	2223.4	2196.8	2175.9	2160.9
2709.1	25°	2666.6	2593.3	2542.5	2514.2	2409.2	2264.2	2183.4	2124.3	2085.1	2059.3
2993.2	27.5°	2936.5	2813.2	2684.9	2615.8	2409.2	2218.4	2086.8	1991.0	1926.9	1900.2
3268.1	30°	3193.9	3064.8	2875.7	2738.3	2403.4	2143.5	1931.0	1797.7	1722.8	1696.1
3503.0	32.5°	3413.9	3273.1	3078.1	2872.4	2389.2	2021.8	1737.8	1590.3	1517.8	1486.2
3735.4	35°	3618.0	3468.0	3281.4	3019.8	2351.7	1843.6	1525.3	1412.9	1332.1	1281.2
3972.0	37.5°	3827.1	3648.8	3473.8	3153.1	2284.2	1635.3	1362.0	1266.2	1171.3	1103.0
4223.6	40°	4054.5	3841.2	3679.6	3232.3	2173.4	1437.0	1235.4	1148.0	1047.2	974.7
4513.5	42.5°	4320.2	4072.0	3908.7	3273.1	2021.8	1296.2	1153.0	1067.1	972.2	913.0
4824.2	45°	4597.6	4326.1	4117.8	3272.2	1852.7	1230.4	1126.3	1041.3	936.4	874.7
5143.3	47.5°	4888.4	4591.8	4298.6	3218.9	1706.1	1239.6	1111.3	985.5	869.7	809.7
5465.7	50°	5179.9	4882.5	4473.5	3119.0	1643.6	1219.6	1055.5	907.2	770.6	716.4
5768.1	52.5°	5469.0	5191.6	4624.3	2976.5	1580.3	1145.5	983.8	805.6	729.8	692.3
6080.5	55°	5759.8	5497.3	4788.4	2769.1	1422.0	1058.8	863.9	767.2	697.3	663.1
6386.2	57.5°	6051.3	5850.6	4944.2	2561.6	1222.9	952.2	798.1	720.6	664.8	635.6
6642.0	60°	6354.6	6254.6	5105.0	2370.9	1026.3	815.6	749.8	683.1	626.5	594.0
6887.7	62.5°	6667.0	6699.4	5230.8	2125.1	845.6	732.3	706.4	638.1	583.1	552.3
7091.0	65°	6981.8	7128.5	5313.2	1784.4	685.6	653.1	659.8	589.0	533.2	506.5
7240.1	67.5°	7219.3	7437.5	5289.9	1350.4	562.3	578.1	601.5	537.3	484.8	464.0
7215.9	70°	7245.9	7400.9	5060.0	924.7	470.7	504.8	536.5	486.5	432.4	417.4
6876.0	72.5°	6891.0	6901.0	4419.4	604.0	398.2	443.2	468.2	434.9	382.4	367.4
6015.5	75°	5960.5	5707.3	3244.8	398.2	333.2	380.7	404.0	380.7	329.9	333.2
4501.0	77.5°	4516.0	4042.0	1970.2	283.2	278.2	319.9	351.5	334.9	291.6	327.4
2263.4	80°	2326.7	2186.8	878.9	211.6	219.9	255.7	289.1	267.4	230.8	219.9
505.7	82.5°	533.2	619.8	346.6	151.6	159.1	184.1	220.8	200.8	165.8	140.0
210.8	85°	186.6	204.1	153.3	95.0	93.3	115.0	150.0	134.1	112.5	90.0
89.1	87.5°	59.1	77.5	57.5	38.3	40.0	51.6	69.1	63.3	52.5	34.2
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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<u>180°</u>
1769.4
1817.7
1894.4
1981.8
2061.8
2106.0
2151.8
2185.9
2191.8
2165.9
2069.3
1913.5
1711.9
1502.0
1297.9
1121.3
988.8
924.7
884.7
818.1
719.8
692.3
659.8
630.6
591.5
551.5
505.7
464.8
418.2
366.5
321.6
288.2
200.8
138.3
95.0
35.8
0.0

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