

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: P940357

Luminaire Tested: **GALN-SB3B-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16172 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

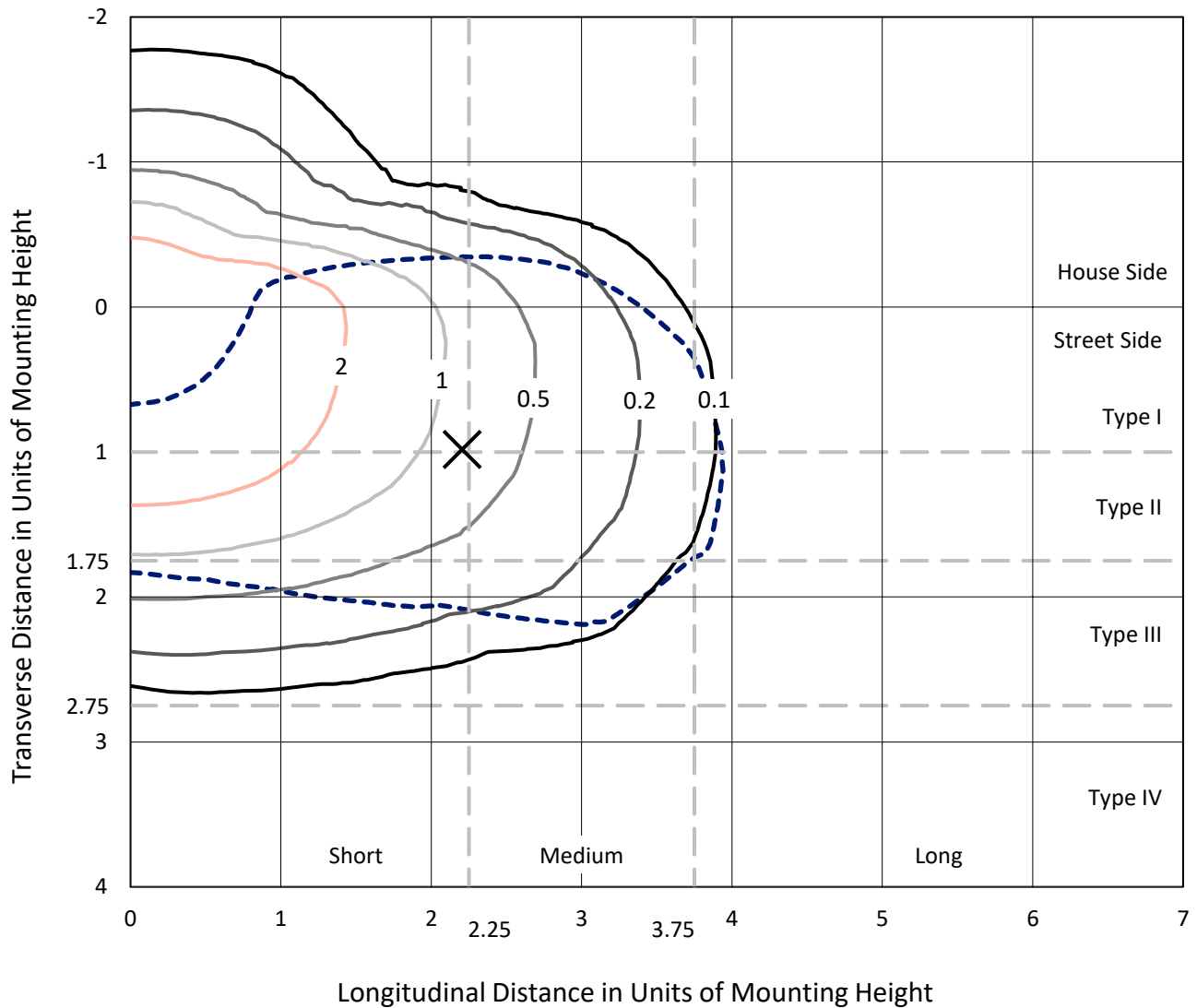
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

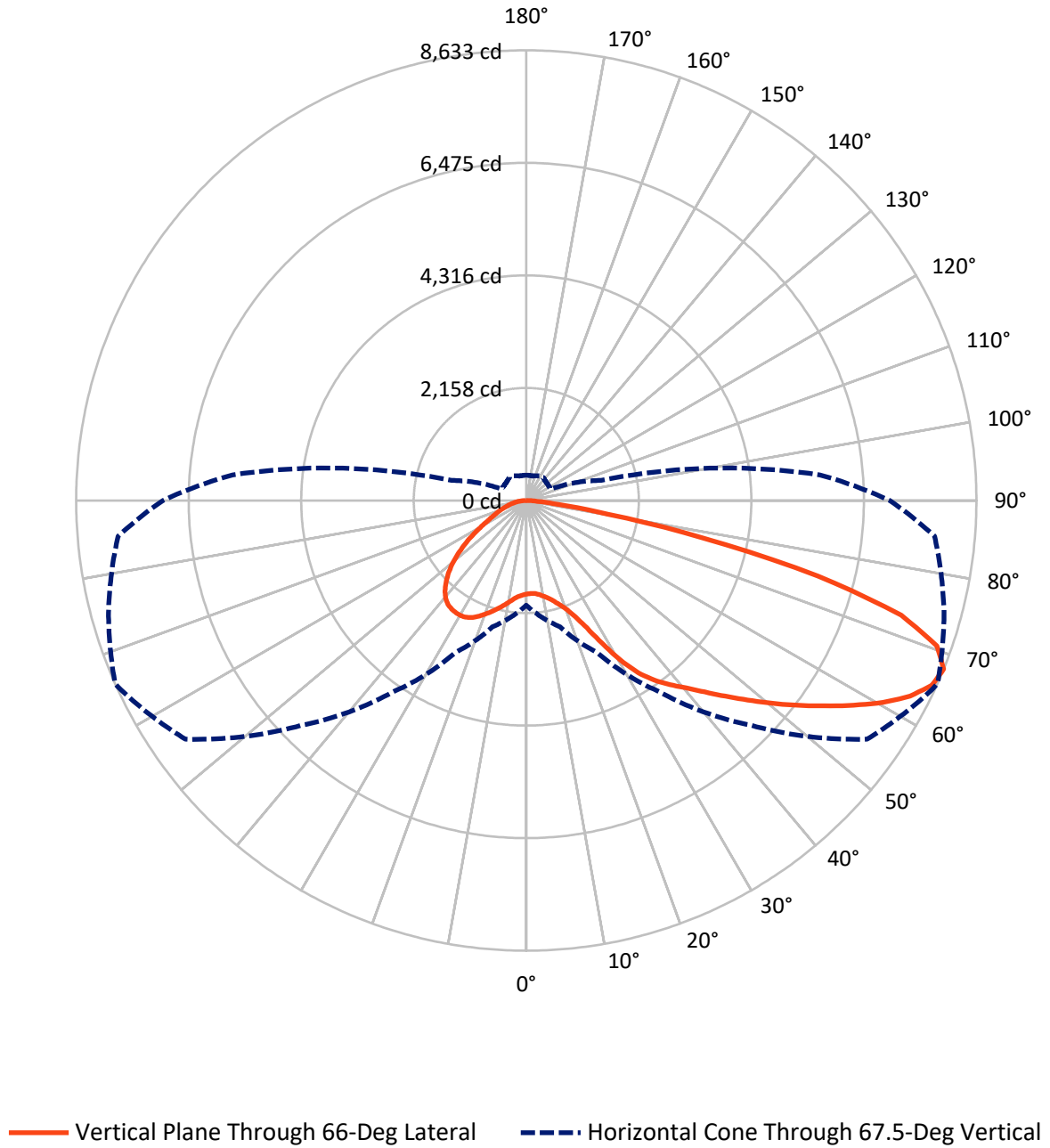
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4021.1	0.0	4021.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	12150.9	0.0	12150.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	16172.0	0.0	16172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	1.1
10°-20°	587.5	3.6
20°-30°	1132.5	7.0
30°-40°	1985.6	12.3
40°-50°	2952.0	18.3
50°-60°	3741.9	23.1
60°-70°	3661.4	22.6
70°-80°	1746.5	10.8
80°-90°	186.7	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°	16172.0	100.0
0°-180°	16172.0	100.0

Coefficient of Utilization



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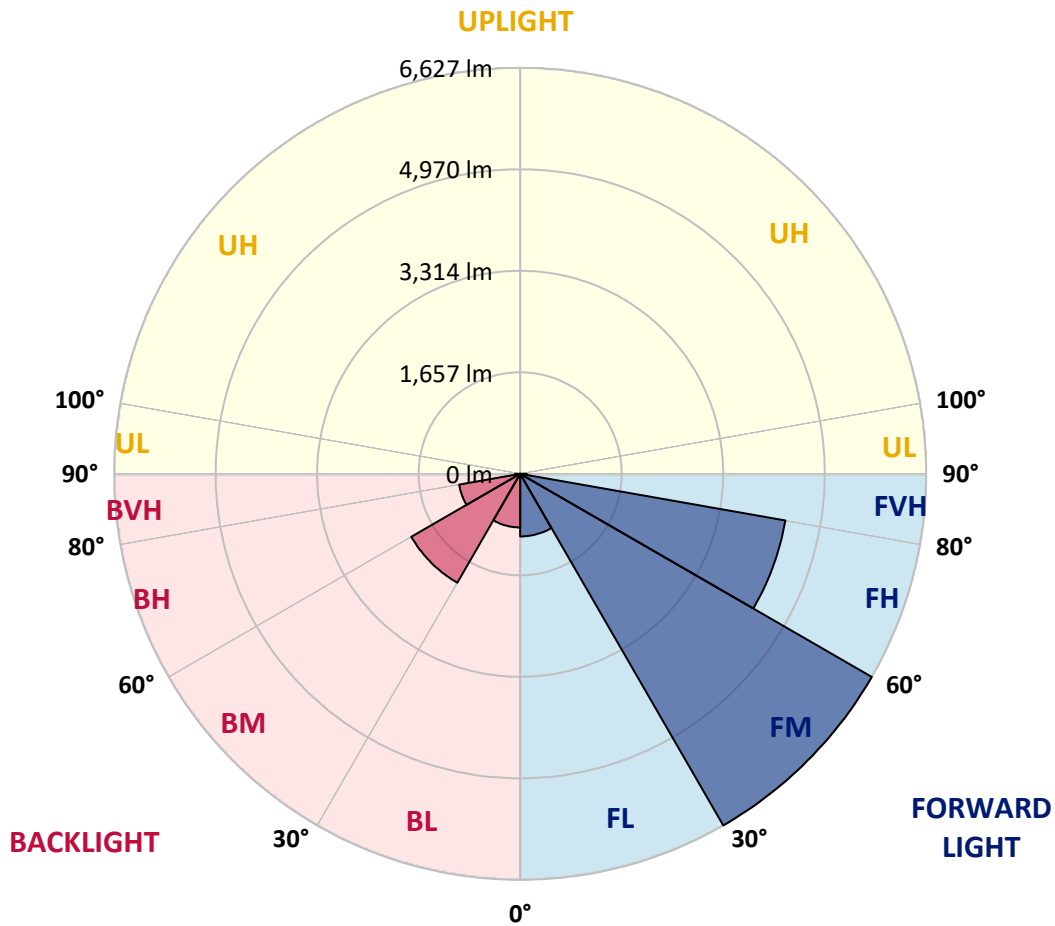
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1021.9	6.3			
FM (30°-60°)	6627.2	41.0			
FH (60°-80°)	4396.0	27.2			G2/5000
FVH (80°-90°)	105.8	0.7			G2/225
BL (0°-30°)	875.9	5.4	B2/1000		
BM (30°-60°)	2052.4	12.7	B2/2500		
BH (60°-80°)	1011.9	6.3	B3/2500		G3/2500
BVH (80°-90°)	80.8	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°	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7
2.5°	1775.0	1785.2	1782.6	1778.4	1777.5	1779.2	1781.8	1784.3	1783.5	1787.7
5°	1769.9	1780.1	1779.2	1779.2	1782.6	1789.4	1793.7	1797.9	1793.7	1798.8
7.5°	1773.3	1780.9	1784.3	1787.7	1796.2	1809.0	1819.2	1828.5	1823.4	1829.4
10°	1816.6	1822.6	1826.0	1826.0	1831.9	1846.4	1856.6	1873.6	1869.3	1878.7
12.5°	1895.7	1901.6	1901.6	1898.2	1902.4	1911.8	1915.2	1933.9	1926.2	1941.5
15°	1992.5	2004.4	1995.1	1989.1	1990.8	2000.2	1999.3	2013.8	2006.1	2018.9
17.5°	2099.6	2114.9	2099.6	2098.7	2095.3	2105.5	2106.4	2119.1	2105.5	2114.9
20°	2226.2	2247.4	2234.7	2238.9	2231.3	2235.5	2239.8	2258.5	2237.2	2244.0
22.5°	2404.6	2430.1	2416.5	2432.7	2427.6	2424.2	2423.3	2456.4	2423.3	2425.9
25°	2664.6	2695.2	2671.4	2693.5	2693.5	2704.6	2717.3	2759.8	2704.6	2688.4
27.5°	3048.7	3079.3	3032.5	3046.1	3041.9	3069.1	3055.5	3160.8	3101.4	3075.0
30°	3510.9	3565.3	3476.9	3473.5	3469.3	3512.6	3532.1	3601.8	3541.5	3515.2
32.5°	4010.5	4067.4	3962.1	3931.5	3915.4	3941.7	3925.6	3981.6	3940.0	3899.2
35°	4539.0	4595.1	4494.8	4435.4	4370.8	4315.6	4257.8	4272.2	4233.1	4171.1
37.5°	5038.6	5141.5	5035.2	4971.5	4852.6	4744.7	4583.2	4516.1	4479.5	4422.6
40°	5547.6	5606.2	5525.5	5471.1	5342.0	5172.9	4914.6	4772.7	4723.4	4668.2
42.5°	5922.3	5978.4	5935.1	5897.7	5796.6	5600.3	5266.4	5088.8	5017.4	4955.4
45°	6219.7	6261.3	6234.2	6247.7	6204.4	6014.1	5630.9	5427.8	5353.9	5278.3
47.5°	6339.5	6383.7	6427.0	6507.8	6581.7	6441.5	6022.6	5794.9	5716.7	5639.4
50°	6325.9	6371.0	6496.7	6668.3	6897.8	6851.0	6435.5	6185.7	6113.5	6025.1
52.5°	6217.2	6268.1	6429.6	6715.1	7080.4	7157.8	6856.1	6589.3	6521.3	6416.0
55°	5931.7	5962.3	6204.4	6608.9	7123.8	7371.9	7268.2	7019.3	6951.3	6804.3
57.5°	5402.3	5446.5	5799.1	6322.5	7015.0	7517.2	7630.2	7471.3	7405.9	7194.3
60°	4711.5	4782.0	5185.6	5841.6	6738.0	7516.3	7959.0	7915.7	7861.3	7578.4
62.5°	3929.8	4011.4	4399.7	5161.8	6253.7	7303.1	8164.6	8287.8	8259.8	7932.7
65°	3018.1	3074.2	3460.8	4282.4	5500.0	6845.1	8188.4	8541.9	8547.0	8202.0
67.5°	2009.5	2170.9	2506.6	3213.5	4490.6	6096.5	7979.4	8583.5	8632.8	8294.6
70°	980.5	1193.0	1521.8	2088.5	3213.5	4948.6	7433.1	8242.0	8351.6	8024.4
72.5°	407.0	475.8	655.1	1030.7	1844.7	3339.3	6335.3	7315.8	7518.9	7110.2
75°	274.4	297.4	374.7	528.5	840.3	1646.7	4568.8	5455.0	5782.1	5370.0
77.5°	211.6	226.0	272.7	369.6	499.6	622.8	2445.4	3287.4	3456.5	3199.9
80°	166.5	177.6	203.9	269.4	354.3	333.1	833.5	1489.5	1587.2	1331.5
82.5°	144.4	148.7	146.1	182.7	235.4	194.6	273.6	549.7	606.7	440.1
85°	104.5	116.4	121.5	113.0	124.9	98.6	112.2	194.6	214.1	191.2
87.5°	42.5	62.9	77.3	73.1	45.9	28.0	34.8	56.9	65.4	71.4
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1793.7	0°	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7
1794.5	2.5°	1795.4	1801.3	1805.6	1810.7	1814.1	1819.2	1829.4	1835.3	1836.2	1840.4
1808.1	5°	1811.5	1820.0	1829.4	1843.0	1858.3	1871.0	1890.6	1904.1	1909.2	1913.5
1841.3	7.5°	1846.4	1858.3	1875.3	1899.0	1921.1	1938.1	1961.9	1978.1	1994.2	2000.2
1894.0	10°	1898.2	1915.2	1939.8	1972.1	1995.9	2018.0	2042.6	2056.2	2072.4	2079.2
1956.8	12.5°	1962.8	1980.6	2012.9	2057.9	2080.0	2095.3	2103.8	2100.4	2103.8	2109.8
2032.5	15°	2036.7	2056.2	2092.8	2141.2	2156.5	2142.9	2124.2	2107.2	2104.7	2106.4
2124.2	17.5°	2124.2	2138.7	2181.1	2221.9	2210.9	2154.8	2114.0	2086.8	2073.2	2069.0
2241.5	20°	2246.6	2246.6	2281.4	2306.9	2233.0	2137.8	2074.1	2029.9	2001.9	1990.0
2401.2	22.5°	2395.3	2381.7	2403.8	2385.9	2228.7	2090.2	2001.9	1925.4	1882.9	1865.9
2624.7	25°	2583.9	2567.8	2561.8	2451.3	2198.1	2014.6	1871.0	1778.4	1741.0	1731.7
2946.7	27.5°	2868.5	2827.8	2750.4	2487.0	2142.1	1895.7	1718.1	1632.2	1611.0	1611.9
3360.5	30°	3247.5	3165.9	2976.5	2493.0	2050.3	1727.4	1561.7	1500.5	1490.4	1494.6
3708.0	32.5°	3598.4	3521.1	3207.6	2465.8	1909.2	1562.6	1421.5	1380.7	1365.4	1370.5
3973.1	35°	3873.7	3852.5	3421.7	2427.6	1735.9	1407.9	1295.8	1260.9	1231.2	1224.4
4222.9	37.5°	4133.7	4125.2	3582.3	2374.0	1564.3	1298.3	1194.7	1148.8	1105.4	1081.7
4499.1	40°	4419.2	4410.7	3687.6	2291.6	1412.2	1203.2	1103.7	1043.4	989.9	946.6
4811.8	42.5°	4740.4	4690.3	3737.8	2173.5	1283.0	1122.4	1029.8	948.3	877.7	837.8
5165.2	45°	5091.3	4978.3	3736.9	2023.1	1174.3	1048.5	950.8	835.2	769.8	732.4
5528.1	47.5°	5463.5	5253.6	3691.0	1856.6	1068.9	966.9	828.4	740.1	696.7	673.8
5922.3	50°	5847.5	5511.1	3612.9	1665.4	961.0	874.3	752.0	691.6	658.5	637.3
6313.2	52.5°	6208.7	5744.7	3518.6	1448.7	851.4	784.3	718.0	671.3	636.4	612.6
6692.1	55°	6544.3	5946.1	3385.2	1226.9	762.2	723.9	701.8	662.8	622.8	594.8
7077.0	57.5°	6842.5	6077.0	3154.9	1018.8	698.4	682.3	684.8	648.3	602.4	578.6
7456.0	60°	7090.6	6173.0	2814.2	825.9	646.6	641.5	658.5	621.1	567.6	540.4
7776.3	62.5°	7239.3	6171.3	2396.1	676.4	602.4	604.1	623.7	587.1	532.8	507.3
7943.7	65°	7226.6	6020.0	1937.3	578.6	559.9	561.6	587.1	549.7	503.9	488.6
7859.6	67.5°	6970.8	5651.3	1486.1	514.9	513.2	520.9	550.6	524.3	486.0	484.3
7358.3	70°	6278.3	4885.7	1070.6	463.9	464.8	475.8	514.9	508.1	476.7	480.1
6186.6	72.5°	5034.4	3725.0	718.8	410.4	411.2	429.1	480.9	495.4	467.3	512.4
4389.5	75°	3352.9	2323.0	462.2	353.5	354.3	377.3	451.2	470.7	441.8	510.7
2284.0	77.5°	1611.0	1044.3	334.8	297.4	297.4	318.6	390.0	421.4	376.4	396.8
734.1	80°	556.5	392.6	263.4	239.6	234.5	249.0	328.8	365.4	324.6	299.1
239.6	82.5°	219.2	203.9	211.6	186.1	169.1	178.4	255.8	301.6	238.8	215.8
135.1	85°	125.8	132.6	149.5	123.2	97.7	109.6	187.8	216.7	180.1	158.9
44.2	87.5°	34.0	46.7	68.8	63.7	44.2	46.7	89.2	119.8	103.7	79.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1793.7
1839.6
1912.6
2001.0
2082.6
2111.5
2112.3
2074.9
1987.4
1863.4
1733.4
1614.4
1509.0
1377.3
1229.5
1082.5
950.8
840.3
730.7
668.7
629.6
602.4
583.7
563.3
528.5
499.6
487.7
486.9
479.2
519.2
514.9
363.7
280.4
215.0
162.3
82.4
0.0

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