

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: P941057

Luminaire Tested: **GALN-SB4B-930-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941057
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-SB4B-930-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15710 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

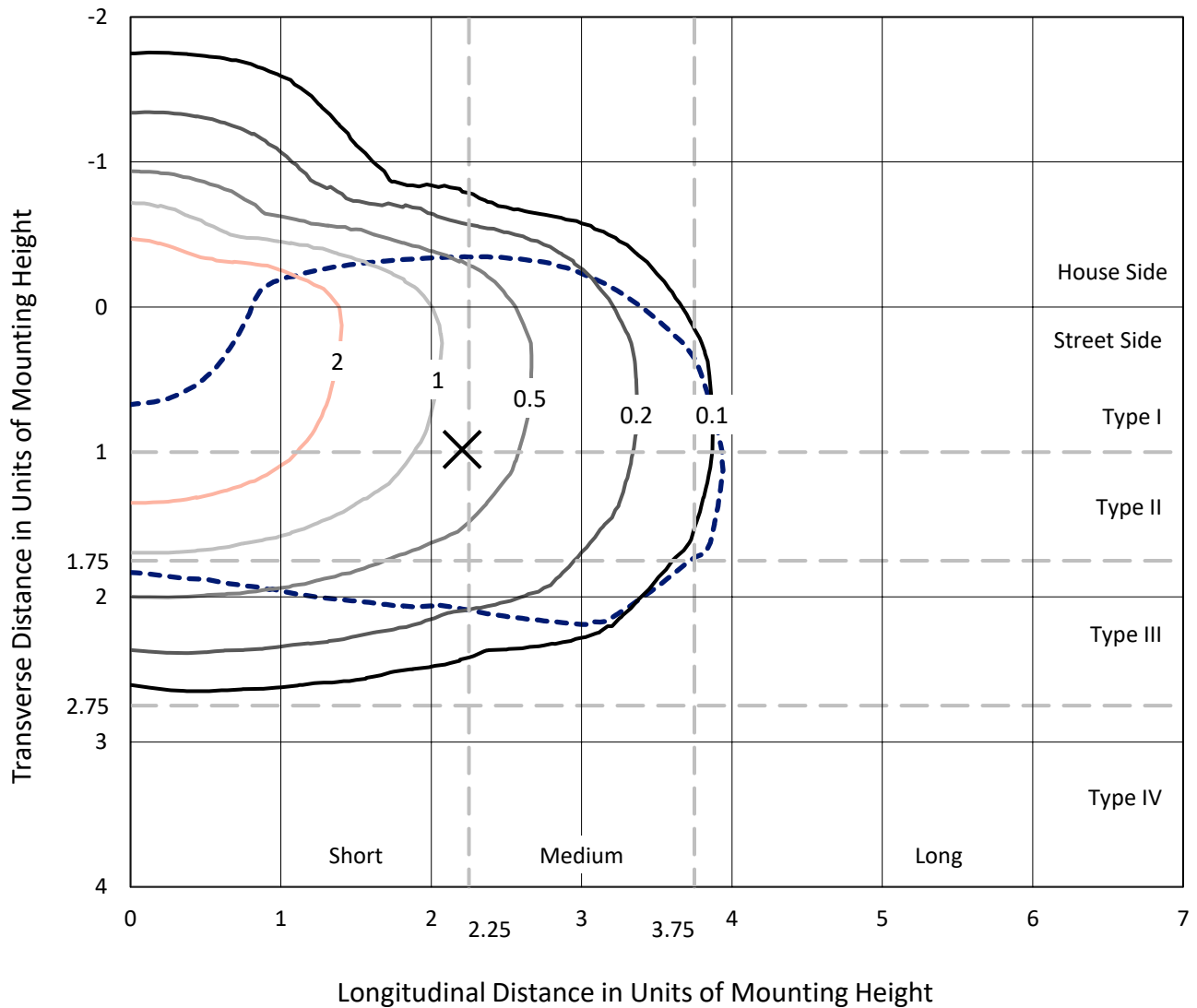
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

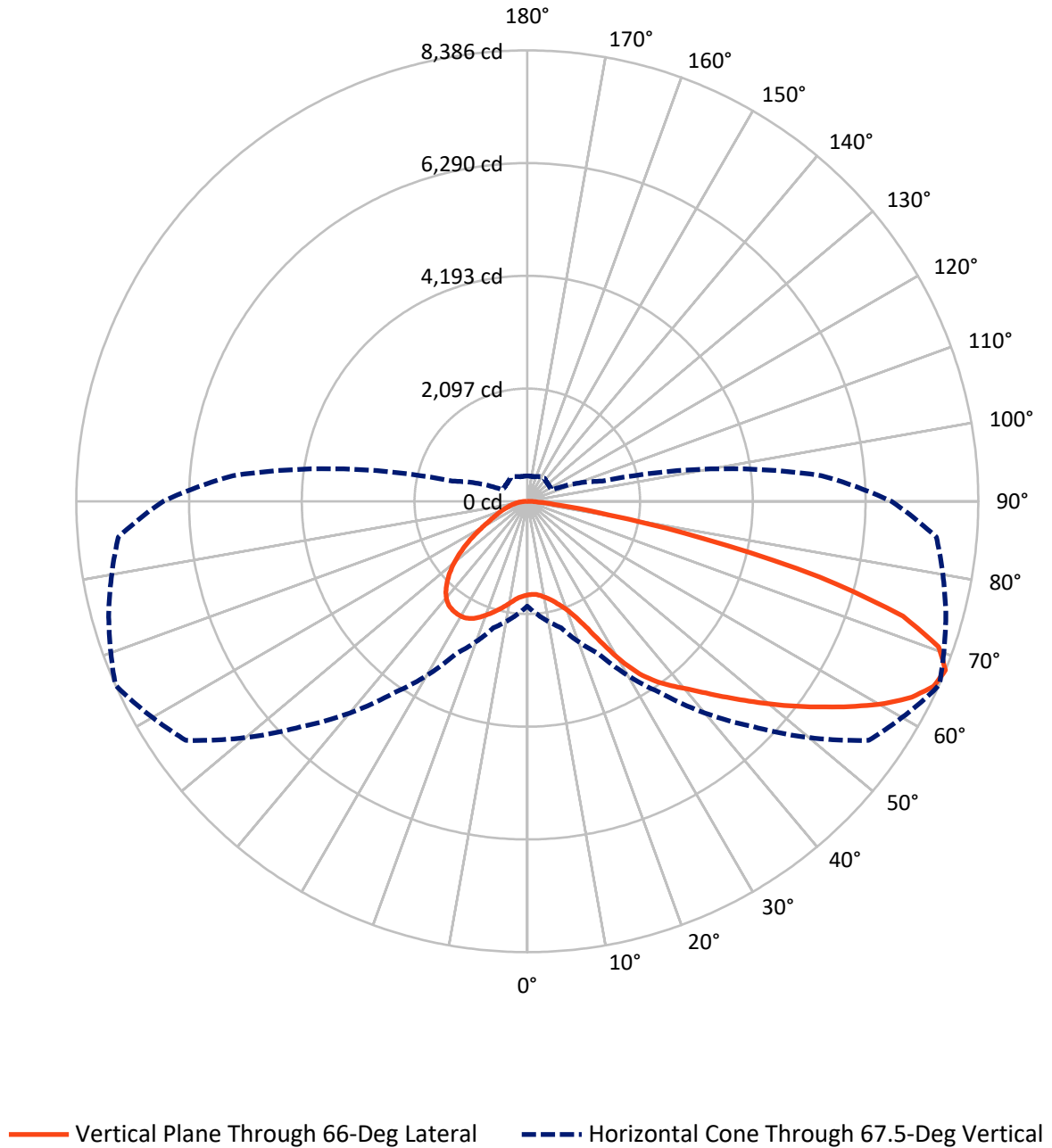
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	3906.3	0.0	3906.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	11803.8	0.0	11803.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	15710.0	0.0	15710.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	1.1
10°-20°	570.8	3.6
20°-30°	1100.1	7.0
30°-40°	1928.9	12.3
40°-50°	2867.7	18.3
50°-60°	3635.0	23.1
60°-70°	3556.8	22.6
70°-80°	1696.6	10.8
80°-90°	181.3	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°	15710.0	100.0
0°-180°	15710.0	100.0

Coefficient of Utilization



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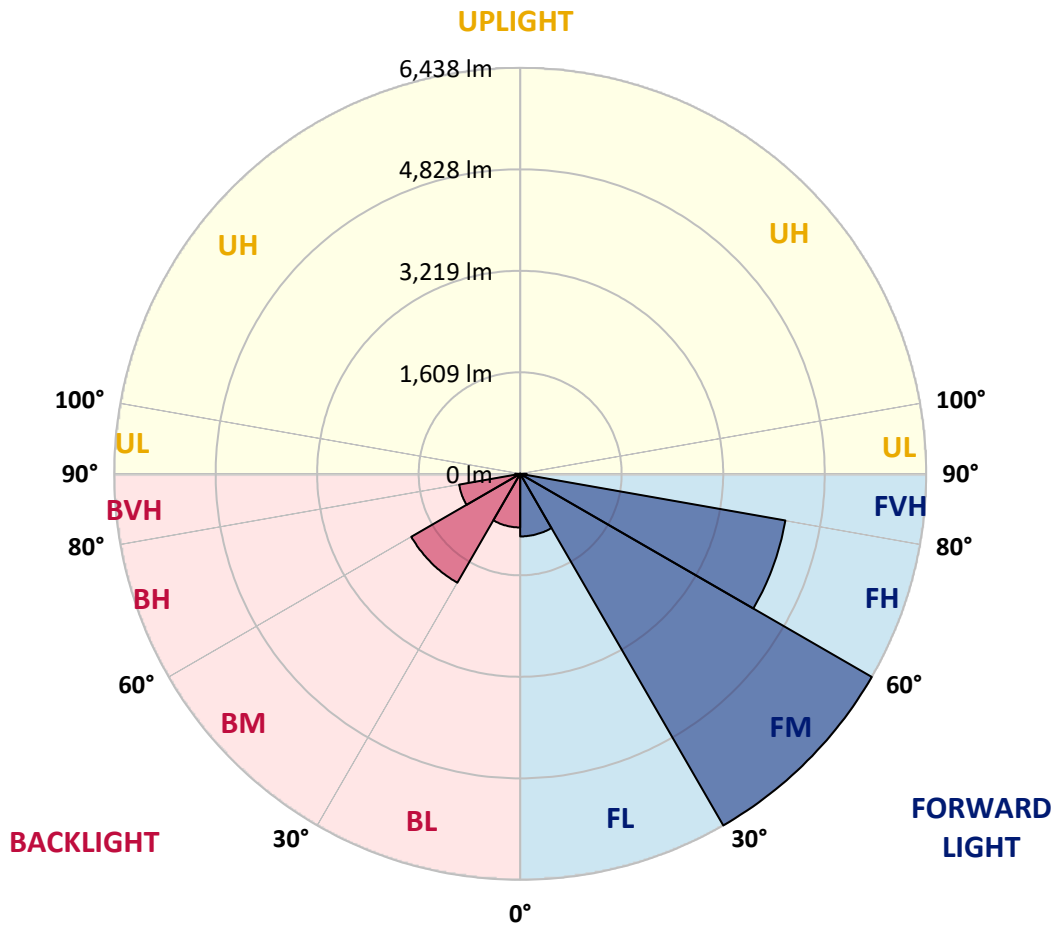
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	992.7	6.3			
FM (30°-60°)	6437.8	41.0			
FH (60°-80°)	4270.4	27.2			G2/5000
FVH (80°-90°)	102.8	0.7			G2/225
BL (0°-30°)	850.9	5.4	B2/1000		
BM (30°-60°)	1993.8	12.7	B2/2500		
BH (60°-80°)	983.0	6.3	B2/1000		G2/1000
BVH (80°-90°)	78.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4
2.5°	1724.3	1734.2	1731.7	1727.6	1726.8	1728.4	1730.9	1733.4	1732.5	1736.7
5°	1719.3	1729.2	1728.4	1728.4	1731.7	1738.3	1742.4	1746.6	1742.4	1747.4
7.5°	1722.6	1730.1	1733.4	1736.7	1744.9	1757.3	1767.2	1776.3	1771.3	1777.1
10°	1764.7	1770.5	1773.8	1773.8	1779.6	1793.6	1803.5	1820.0	1815.9	1825.0
12.5°	1841.5	1847.3	1847.3	1844.0	1848.1	1857.2	1860.5	1878.6	1871.2	1886.1
15°	1935.6	1947.1	1938.1	1932.3	1933.9	1943.0	1942.2	1956.2	1948.8	1961.2
17.5°	2039.6	2054.5	2039.6	2038.8	2035.5	2045.4	2046.2	2058.6	2045.4	2054.5
20°	2162.6	2183.2	2170.8	2175.0	2167.5	2171.7	2175.8	2193.9	2173.3	2179.9
22.5°	2335.9	2360.7	2347.5	2363.2	2358.2	2354.9	2354.1	2386.3	2354.1	2356.6
25°	2588.5	2618.2	2595.1	2616.6	2616.6	2627.3	2639.7	2680.9	2627.3	2611.6
27.5°	2961.6	2991.3	2945.9	2959.1	2955.0	2981.4	2968.2	3070.5	3012.8	2987.2
30°	3410.6	3463.4	3377.6	3374.3	3370.2	3412.3	3431.2	3498.9	3440.3	3414.7
32.5°	3895.9	3951.3	3848.9	3819.2	3803.5	3829.1	3813.4	3867.9	3827.4	3787.8
35°	4409.4	4463.8	4366.4	4308.7	4245.9	4192.3	4136.1	4150.2	4112.2	4052.0
37.5°	4894.7	4994.6	4891.4	4829.5	4713.9	4609.1	4452.3	4387.1	4351.6	4296.3
40°	5389.1	5446.1	5367.7	5314.8	5189.4	5025.1	4774.2	4636.3	4588.5	4534.8
42.5°	5753.1	5807.6	5765.5	5729.2	5631.0	5440.3	5115.9	4943.4	4874.1	4813.8
45°	6042.0	6082.5	6056.1	6069.3	6027.2	5842.3	5470.0	5272.7	5200.9	5127.5
47.5°	6158.4	6201.3	6243.4	6321.8	6393.6	6257.5	5850.5	5629.3	5553.4	5478.3
50°	6145.2	6188.9	6311.1	6477.8	6700.7	6655.3	6251.7	6009.0	5938.8	5853.0
52.5°	6039.5	6089.1	6245.9	6523.2	6878.2	6953.3	6660.3	6401.1	6335.0	6232.7
55°	5762.2	5791.9	6027.2	6420.1	6920.3	7161.3	7060.6	6818.7	6752.7	6609.9
57.5°	5248.0	5290.9	5633.4	6141.9	6814.6	7302.4	7412.2	7257.9	7194.3	6988.8
60°	4576.9	4645.4	5037.5	5674.7	6545.5	7301.6	7731.6	7689.5	7636.7	7361.9
62.5°	3817.5	3896.8	4274.0	5014.4	6075.0	7094.4	7931.4	8051.1	8023.8	7706.1
65°	2931.9	2986.3	3361.9	4160.1	5342.9	6649.5	7954.5	8297.9	8302.8	7967.7
67.5°	1952.1	2108.9	2435.0	3121.7	4362.3	5922.3	7751.5	8338.3	8386.2	8057.7
70°	952.5	1158.9	1478.3	2028.9	3121.7	4807.2	7220.7	8006.5	8113.0	7795.2
72.5°	395.4	462.2	636.4	1001.2	1792.0	3243.9	6154.3	7106.8	7304.1	6907.1
75°	266.6	288.9	364.0	513.4	816.3	1599.7	4438.2	5299.2	5616.9	5216.6
77.5°	205.5	219.6	265.0	359.1	485.3	605.0	2375.5	3193.5	3357.8	3108.5
80°	161.8	172.5	198.1	261.7	344.2	323.6	809.7	1446.9	1541.9	1293.4
82.5°	140.3	144.4	142.0	177.5	228.6	189.0	265.8	534.0	589.3	427.6
85°	101.5	113.1	118.0	109.8	121.3	95.7	109.0	189.0	208.0	185.7
87.5°	41.3	61.1	75.1	71.0	44.6	27.2	33.8	55.3	63.6	69.3
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°
1742.4	0°	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4	1742.4
1743.3	2.5°	1744.1	1749.9	1754.0	1759.0	1762.3	1767.2	1777.1	1782.9	1783.7	1787.8
1756.5	5°	1759.8	1768.0	1777.1	1790.3	1805.2	1817.6	1836.5	1849.8	1854.7	1858.8
1788.7	7.5°	1793.6	1805.2	1821.7	1844.8	1866.3	1882.8	1905.9	1921.6	1937.2	1943.0
1839.8	10°	1844.0	1860.5	1884.4	1915.8	1938.9	1960.4	1984.3	1997.5	2013.2	2019.8
1900.9	12.5°	1906.7	1924.0	1955.4	1999.2	2020.6	2035.5	2043.7	2040.4	2043.7	2049.5
1974.4	15°	1978.5	1997.5	2033.0	2080.0	2094.9	2081.7	2063.5	2047.0	2044.5	2046.2
2063.5	17.5°	2063.5	2077.6	2118.8	2158.5	2147.7	2093.2	2053.6	2027.2	2014.0	2009.9
2177.4	20°	2182.4	2182.4	2216.2	2241.0	2169.2	2076.7	2014.8	1971.9	1944.7	1933.1
2332.6	22.5°	2326.8	2313.6	2335.1	2317.8	2165.1	2030.5	1944.7	1870.4	1829.1	1812.6
2549.7	25°	2510.1	2494.4	2488.6	2381.3	2135.3	1957.1	1817.6	1727.6	1691.3	1682.2
2862.5	27.5°	2786.6	2747.0	2671.9	2416.0	2080.9	1841.5	1669.0	1585.6	1565.0	1565.8
3264.5	30°	3154.7	3075.5	2891.4	2421.8	1991.7	1678.1	1517.1	1457.7	1447.8	1451.9
3602.1	32.5°	3495.6	3420.5	3115.9	2395.3	1854.7	1517.9	1380.9	1341.3	1326.4	1331.4
3859.6	35°	3763.1	3742.4	3323.9	2358.2	1686.3	1367.7	1258.8	1224.9	1196.0	1189.4
4102.3	37.5°	4015.6	4007.4	3479.9	2306.2	1519.6	1261.2	1160.5	1116.0	1073.9	1050.8
4370.6	40°	4293.0	4284.7	3582.3	2226.1	1371.8	1168.8	1072.2	1013.6	961.6	919.5
4674.3	42.5°	4605.0	4556.3	3631.0	2111.4	1246.4	1090.4	1000.4	921.2	852.7	813.9
5017.7	45°	4945.9	4836.1	3630.2	1965.3	1140.7	1018.6	923.6	811.4	747.8	711.5
5370.1	47.5°	5307.4	5103.5	3585.6	1803.5	1038.4	939.3	804.8	718.9	676.8	654.6
5753.1	50°	5680.5	5353.6	3509.7	1617.8	933.5	849.3	730.5	671.9	639.7	619.1
6132.8	52.5°	6031.3	5580.6	3418.0	1407.3	827.1	761.9	697.5	652.1	618.2	595.1
6501.0	55°	6357.3	5776.2	3288.4	1191.9	740.4	703.3	681.8	643.8	605.0	577.8
6874.9	57.5°	6647.1	5903.4	3064.8	989.7	678.5	662.8	665.3	629.8	585.2	562.1
7243.0	60°	6888.1	5996.6	2733.8	802.3	628.1	623.2	639.7	603.4	551.4	525.0
7554.2	62.5°	7032.5	5995.0	2327.7	657.0	585.2	586.9	605.9	570.4	517.5	492.8
7716.8	65°	7020.1	5848.1	1881.9	562.1	543.9	545.6	570.4	534.0	489.5	474.6
7635.1	67.5°	6771.7	5489.8	1443.6	500.2	498.5	506.0	534.9	509.3	472.1	470.5
7148.1	70°	6099.0	4746.1	1040.0	450.7	451.5	462.2	500.2	493.6	463.1	466.4
6009.8	72.5°	4890.6	3618.6	698.3	398.7	399.5	416.8	467.2	481.2	454.0	497.7
4264.1	75°	3257.1	2256.7	449.0	343.4	344.2	366.5	438.3	457.3	429.2	496.1
2218.7	77.5°	1565.0	1014.4	325.2	288.9	288.9	309.5	378.9	409.4	365.7	385.5
713.2	80°	540.6	381.3	255.9	232.8	227.8	241.8	319.4	354.9	315.3	290.5
232.8	82.5°	213.0	198.1	205.5	180.8	164.3	173.3	248.4	293.0	231.9	209.7
131.2	85°	122.2	128.8	145.3	119.7	94.9	106.5	182.4	210.5	175.0	154.4
42.9	87.5°	33.0	45.4	66.9	61.9	42.9	45.4	86.7	116.4	100.7	77.6
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>
1742.4
1787.0
1858.0
1943.8
2023.1
2051.2
2052.0
2015.7
1930.6
1810.1
1683.8
1568.3
1465.9
1338.0
1194.4
1051.6
923.6
816.3
709.9
649.6
611.6
585.2
567.1
547.2
513.4
485.3
473.8
473.0
465.5
504.3
500.2
353.3
272.4
208.8
157.7
80.1
0.0

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