

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: P947660

Luminaire Tested: **GALN-SB2D-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947660
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-SB2D-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14944 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

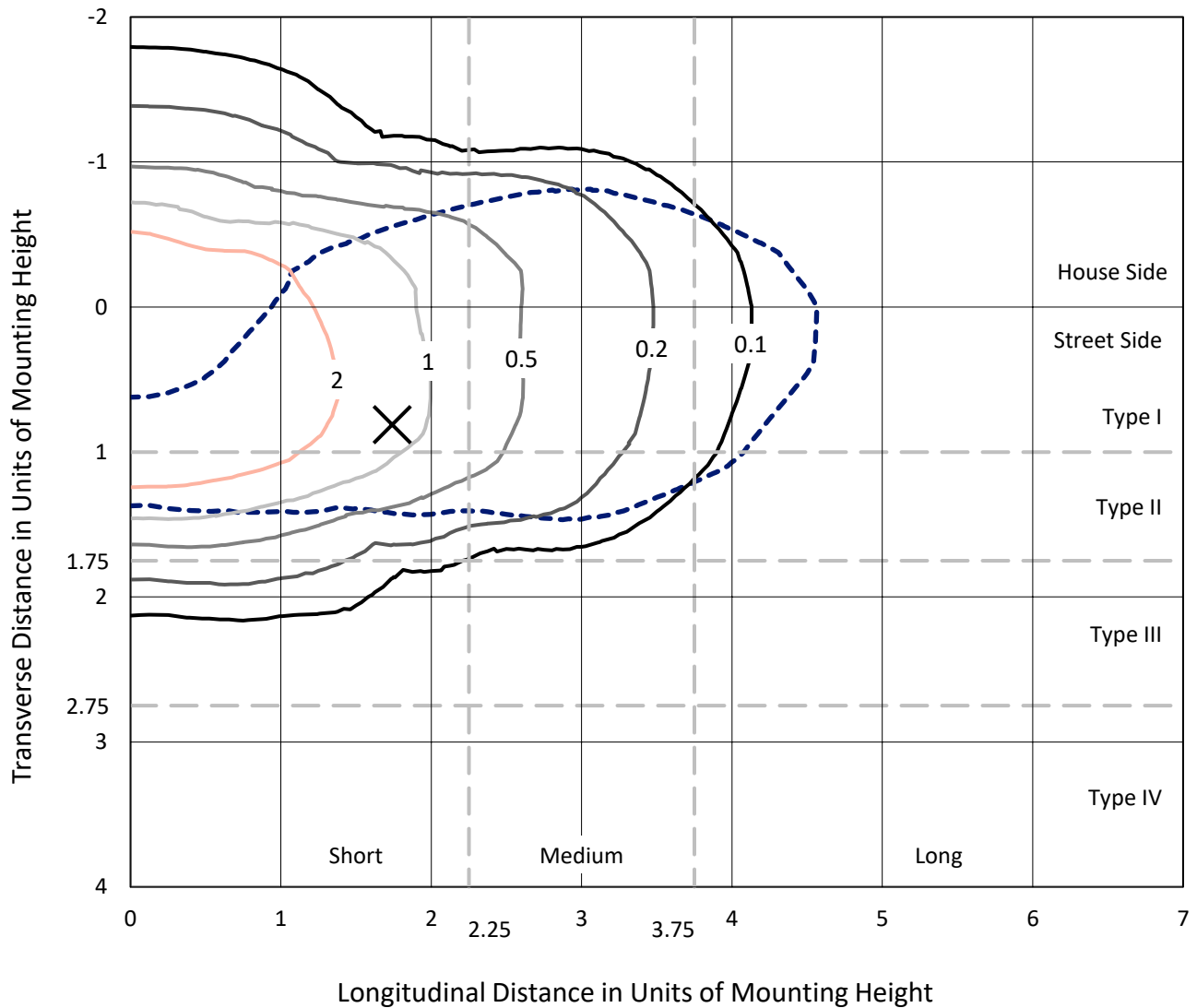
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

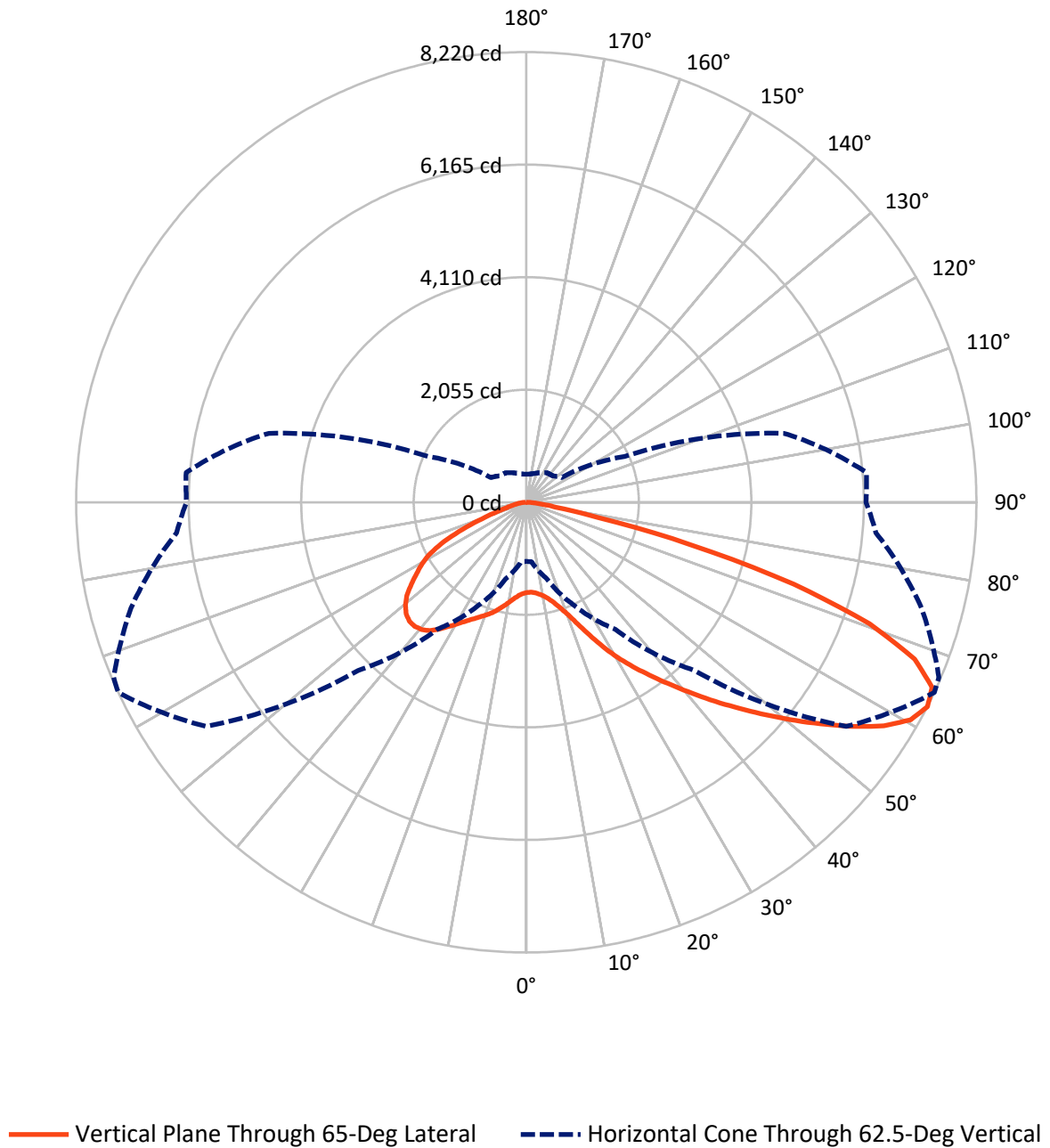
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4715.7	0.0	4715.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	10228.3	0.0	10228.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	14944.0	0.0	14944.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	1.1
10°-20°	556.8	3.7
20°-30°	1128.9	7.6
30°-40°	1953.5	13.1
40°-50°	2956.2	19.8
50°-60°	3466.0	23.2
60°-70°	2905.8	19.4
70°-80°	1604.2	10.7
80°-90°	208.4	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°	14944.0	100.0
0°-180°	14944.0	100.0



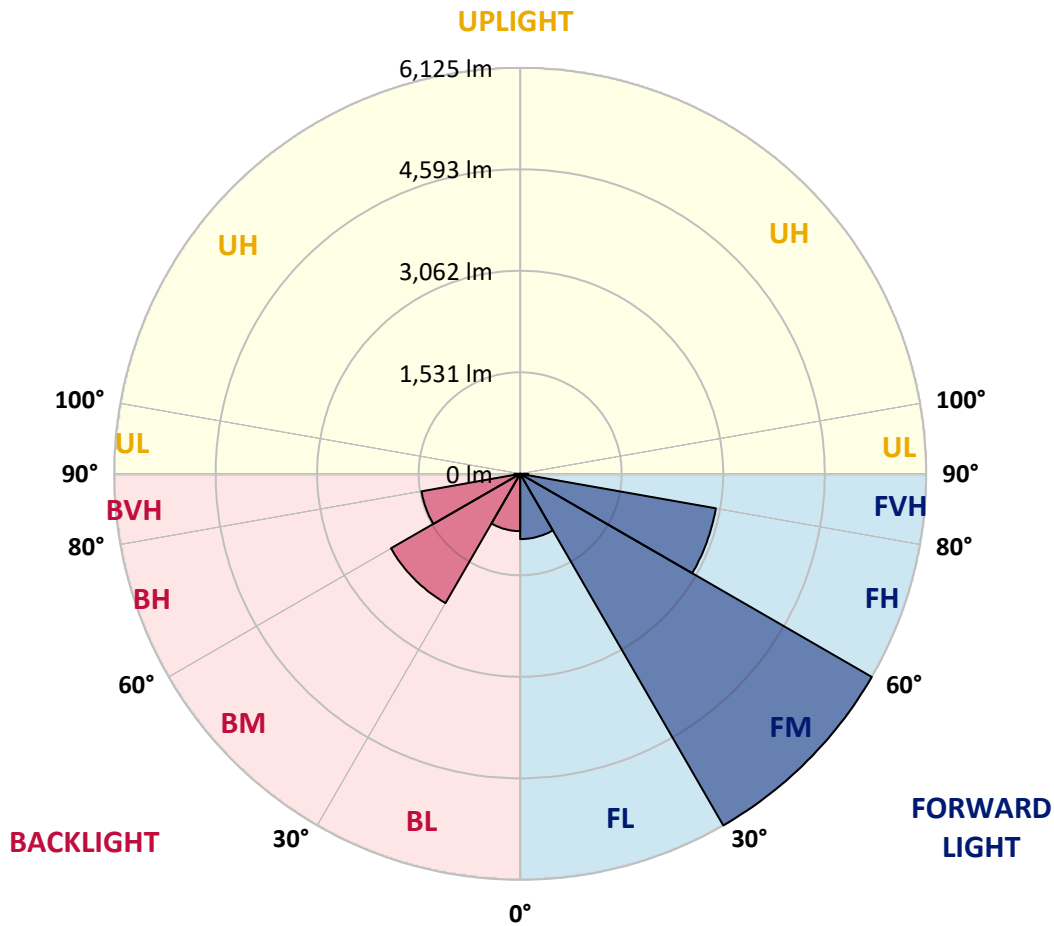
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	985.0	6.6			
FM (30°-60°)	6124.5	41.0			
FH (60°-80°)	2997.3	20.1			G2/5000
FVH (80°-90°)	121.5	0.8			G2/225
BL (0°-30°)	864.8	5.8	B2/1000		
BM (30°-60°)	2251.2	15.1	B2/2500		
BH (60°-80°)	1512.7	10.1	B3/2500		G3/2500
BVH (80°-90°)	86.9	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°	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8
2.5°	1635.9	1631.3	1635.1	1635.1	1636.7	1635.9	1641.3	1642.9	1645.2	1649.9
5°	1619.6	1618.9	1625.8	1632.0	1638.2	1643.7	1650.6	1660.7	1662.3	1667.7
7.5°	1614.2	1609.5	1620.4	1628.2	1642.9	1656.1	1674.7	1691.7	1698.7	1701.0
10°	1656.1	1648.3	1658.4	1663.0	1675.5	1688.6	1710.3	1737.5	1745.2	1754.5
12.5°	1727.4	1718.9	1733.6	1740.6	1752.2	1763.8	1778.6	1804.9	1808.8	1825.9
15°	1825.1	1815.0	1824.3	1832.8	1852.2	1863.1	1877.8	1903.4	1903.4	1916.6
17.5°	1957.7	1944.5	1951.5	1954.6	1967.0	1983.2	2008.1	2030.5	2042.2	2037.5
20°	2155.4	2139.1	2139.1	2123.6	2118.9	2132.1	2164.7	2195.7	2208.1	2184.1
22.5°	2452.3	2429.1	2415.9	2363.2	2342.2	2343.8	2376.3	2414.3	2424.4	2381.8
25°	2829.9	2793.5	2775.6	2698.1	2650.8	2609.7	2635.3	2684.1	2698.1	2645.4
27.5°	3207.5	3209.8	3192.7	3099.7	3021.4	2946.2	2933.0	2984.2	2998.9	2939.2
30°	3737.0	3682.0	3649.4	3537.8	3426.1	3320.7	3266.4	3287.3	3291.2	3219.9
32.5°	4193.7	4179.7	4109.9	4012.2	3868.8	3703.7	3613.0	3579.6	3573.4	3471.8
35°	4713.9	4706.1	4632.5	4516.2	4361.1	4131.6	3968.0	3872.7	3864.9	3722.3
37.5°	5242.7	5242.7	5170.6	5043.4	4882.9	4596.1	4347.2	4196.0	4171.2	3985.1
40°	5664.4	5638.8	5652.0	5598.5	5414.8	5110.1	4768.2	4548.8	4515.4	4292.1
42.5°	5904.0	5895.5	5974.6	6034.3	5959.1	5715.6	5231.8	4931.0	4884.5	4630.2
45°	5957.5	5948.2	6089.3	6307.9	6413.4	6313.4	5735.8	5333.4	5276.8	4983.7
47.5°	5834.2	5815.6	6022.6	6367.6	6705.7	6881.7	6281.6	5769.9	5687.7	5327.9
50°	5463.6	5445.8	5759.0	6217.2	6804.1	7267.8	6873.9	6232.7	6107.1	5697.0
52.5°	4658.1	4666.6	5157.4	5786.9	6674.7	7508.1	7384.1	6720.4	6569.2	6074.6
55°	3628.5	3647.1	4250.3	4943.4	6156.8	7471.7	7732.2	7222.8	7072.4	6429.7
57.5°	2598.1	2680.3	3245.5	3931.6	5162.0	6894.1	7808.2	7700.4	7554.6	6817.3
60°	1684.0	1698.7	2280.2	2971.8	3930.8	5867.6	7653.9	8062.5	7948.5	7212.7
62.5°	1079.2	1089.3	1443.6	2078.6	2829.1	4341.0	7134.4	8219.9	8185.0	7474.0
65°	793.1	785.4	969.9	1373.9	1905.7	2677.2	6125.7	8143.9	8212.9	7637.6
67.5°	662.1	651.3	742.0	951.3	1404.1	1520.4	4532.5	7650.0	7902.8	7619.0
70°	603.2	593.9	648.9	706.3	1095.5	1018.0	2284.8	6650.6	7039.8	7407.3
72.5°	510.9	494.6	569.9	627.2	852.1	780.7	944.3	5108.5	5583.0	6728.9
75°	396.2	385.3	449.7	552.0	640.4	609.4	597.0	3102.0	3619.9	5203.9
77.5°	314.0	299.3	358.2	430.3	576.1	459.8	435.0	1335.9	1849.1	3322.2
80°	236.5	223.3	272.1	340.4	442.7	346.6	281.4	545.0	697.0	1683.2
82.5°	168.2	156.6	190.0	249.7	297.7	310.9	172.9	305.5	343.5	648.9
85°	107.8	100.8	127.2	156.6	189.2	200.0	105.4	159.7	175.2	267.5
87.5°	58.9	48.1	68.2	72.9	87.6	79.9	50.4	58.1	62.8	96.9
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°
1646.8	0°	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8
1649.9	2.5°	1653.0	1655.3	1663.0	1665.4	1670.8	1677.8	1682.4	1687.1	1687.1	1691.7
1674.7	5°	1675.5	1680.9	1697.2	1705.7	1719.6	1733.6	1742.1	1752.2	1758.4	1761.5
1714.2	7.5°	1718.9	1727.4	1750.7	1765.4	1789.4	1808.8	1822.0	1835.9	1839.0	1847.6
1769.3	10°	1777.8	1787.9	1814.2	1842.1	1870.8	1894.9	1907.3	1917.3	1921.2	1922.8
1839.8	12.5°	1845.2	1860.0	1894.1	1928.2	1958.4	1979.4	1982.5	1980.1	1969.3	1960.0
1926.7	15°	1928.2	1941.4	1979.4	2016.6	2046.0	2049.9	2030.5	2018.1	2005.0	2002.6
2023.6	17.5°	2027.4	2034.4	2069.3	2105.7	2108.1	2094.9	2066.2	2054.6	2042.2	2033.6
2149.9	20°	2143.0	2140.6	2165.4	2181.0	2164.7	2124.4	2080.9	2061.6	2049.2	2039.1
2305.0	22.5°	2281.0	2263.1	2260.0	2256.2	2212.7	2128.2	2069.3	2044.5	2025.1	2011.2
2521.3	25°	2481.8	2413.5	2366.3	2339.9	2242.2	2107.3	2032.1	1977.0	1940.6	1916.6
2785.7	27.5°	2733.0	2618.2	2498.8	2434.5	2242.2	2064.7	1942.2	1853.0	1793.3	1768.5
3041.6	30°	2972.5	2852.4	2676.4	2548.5	2236.8	1994.9	1797.2	1673.1	1603.3	1578.5
3260.2	32.5°	3177.2	3046.2	2864.8	2673.3	2223.6	1881.7	1617.3	1480.1	1412.6	1383.2
3476.5	35°	3367.2	3227.6	3054.0	2810.5	2188.7	1715.8	1419.6	1314.9	1239.7	1192.4
3696.7	37.5°	3561.8	3395.9	3233.1	2934.6	2125.9	1521.9	1267.6	1178.5	1090.1	1026.5
3930.8	40°	3773.4	3575.0	3424.6	3008.2	2022.8	1337.4	1149.8	1068.4	974.6	907.1
4200.6	42.5°	4020.8	3789.7	3637.8	3046.2	1881.7	1206.4	1073.0	993.2	904.8	849.7
4489.8	45°	4279.0	4026.2	3832.4	3045.4	1724.3	1145.1	1048.2	969.1	871.5	814.1
4786.8	47.5°	4549.5	4273.5	4000.6	2995.8	1587.8	1153.7	1034.3	917.2	809.4	753.6
5086.8	50°	4820.9	4544.1	4163.4	2902.8	1529.7	1135.1	982.3	844.3	717.2	666.8
5368.3	52.5°	5089.9	4831.7	4303.8	2770.2	1470.8	1066.1	915.6	749.7	679.2	644.3
5659.0	55°	5360.5	5116.3	4456.5	2577.1	1323.5	985.4	804.0	714.1	648.9	617.1
5943.5	57.5°	5631.9	5445.0	4601.5	2384.1	1138.2	886.2	742.7	670.6	618.7	591.6
6181.6	60°	5914.1	5821.0	4751.1	2206.5	955.2	759.0	697.8	635.8	583.0	552.8
6410.3	62.5°	6204.8	6235.1	4868.2	1977.8	786.9	681.5	657.5	593.9	542.7	514.0
6599.5	65°	6497.9	6634.4	4944.9	1660.7	638.1	607.8	614.0	548.1	496.2	471.4
6738.2	67.5°	6718.9	6922.0	4923.2	1256.8	523.3	538.1	559.8	500.1	451.2	431.8
6715.8	70°	6743.7	6887.9	4709.2	860.6	438.1	469.8	499.3	452.8	402.4	388.4
6399.4	72.5°	6413.4	6422.7	4113.0	562.1	370.6	412.5	435.7	404.7	355.9	341.9
5598.5	75°	5547.4	5311.7	3019.8	370.6	310.1	354.3	376.0	354.3	307.0	310.1
4189.0	77.5°	4203.0	3761.8	1833.6	263.6	259.0	297.7	327.2	311.7	271.4	304.7
2106.5	80°	2165.4	2035.2	818.0	196.9	204.7	238.0	269.0	248.9	214.8	204.7
470.6	82.5°	496.2	576.8	322.5	141.1	148.1	171.3	205.5	186.9	154.3	130.3
196.2	85°	173.7	190.0	142.7	88.4	86.8	107.0	139.6	124.8	104.7	83.7
83.0	87.5°	55.0	72.1	53.5	35.7	37.2	48.1	64.4	58.9	48.8	31.8
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>
1646.8
1691.7
1763.1
1844.5
1918.9
1960.0
2002.6
2034.4
2039.8
2015.8
1925.9
1780.9
1593.3
1397.9
1207.9
1043.6
920.3
860.6
823.4
761.4
669.9
644.3
614.0
586.9
550.5
513.3
470.6
432.6
389.2
341.1
299.3
268.3
186.9
128.7
88.4
33.3
0.0

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