

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: P949827

Luminaire Tested: **GALN-SB4B-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15669 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

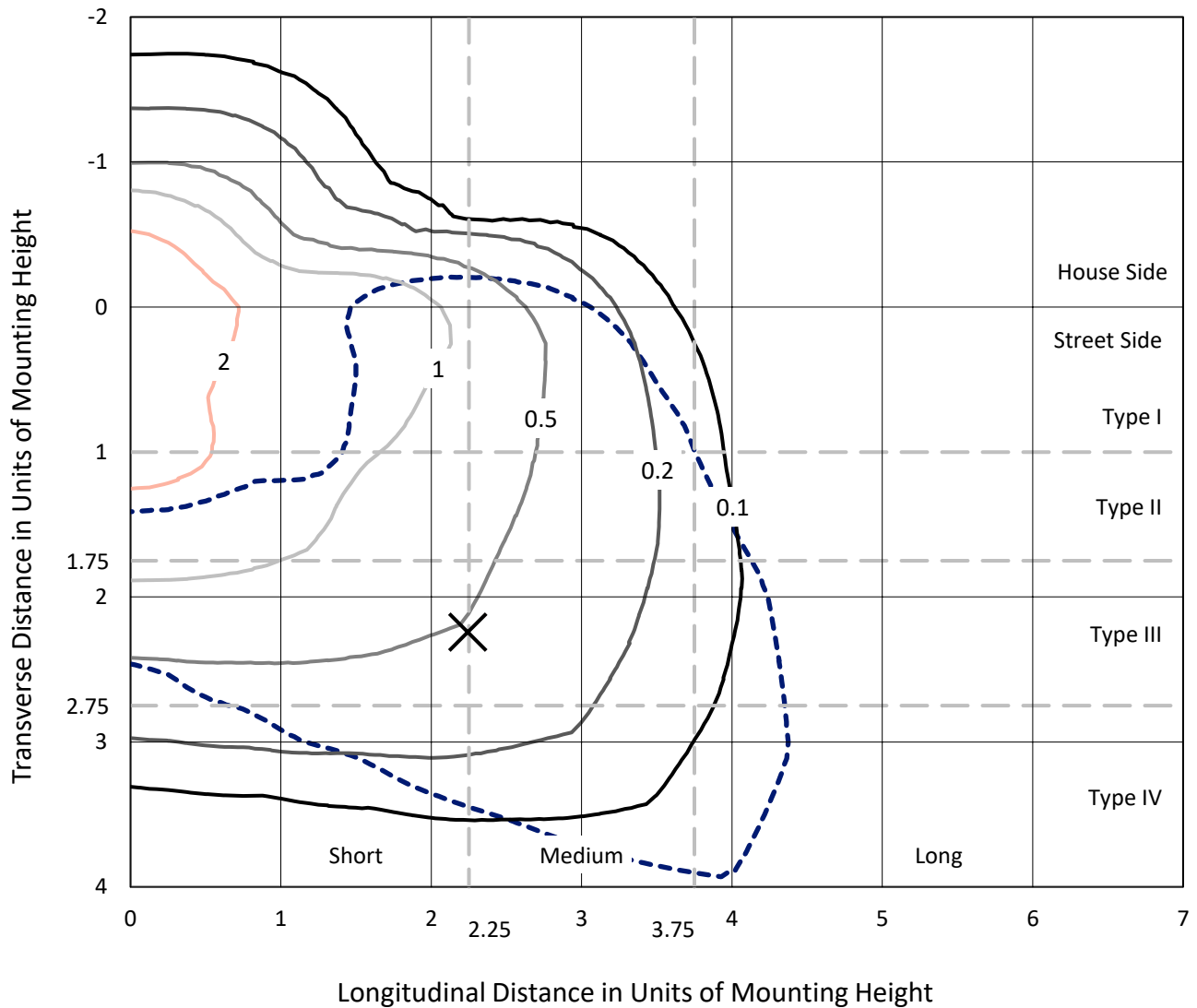
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

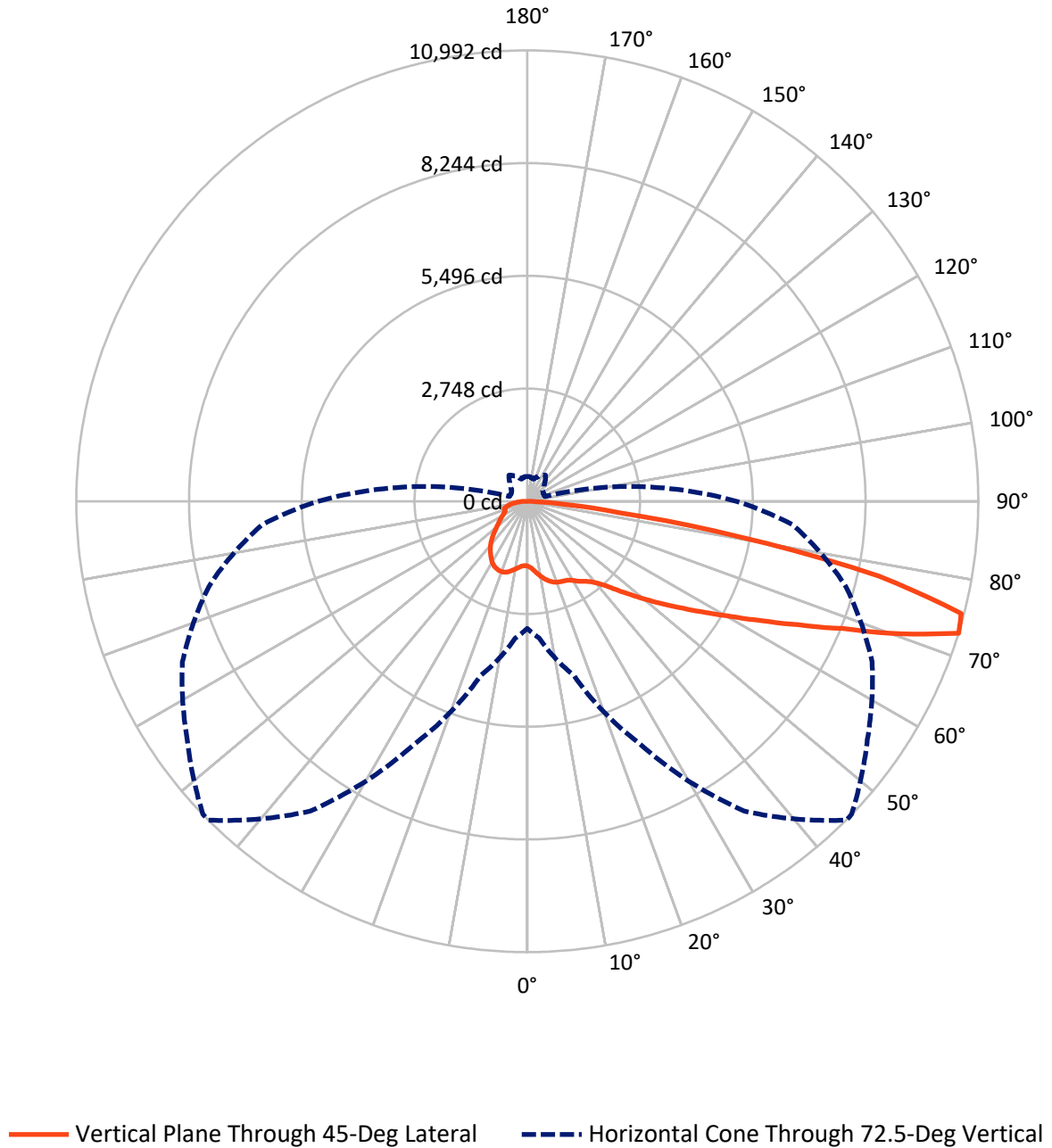
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3542.2	0.0	3542.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	12126.8	0.0	12126.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	15669.0	0.0	15669.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	1.0
10°-20°	536.4	3.4
20°-30°	933.1	6.0
30°-40°	1337.7	8.5
40°-50°	1883.5	12.0
50°-60°	2885.0	18.4
60°-70°	4179.3	26.7
70°-80°	3337.4	21.3
80°-90°	415.7	2.7
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°	15669.0	100.0
0°-180°	15669.0	100.0



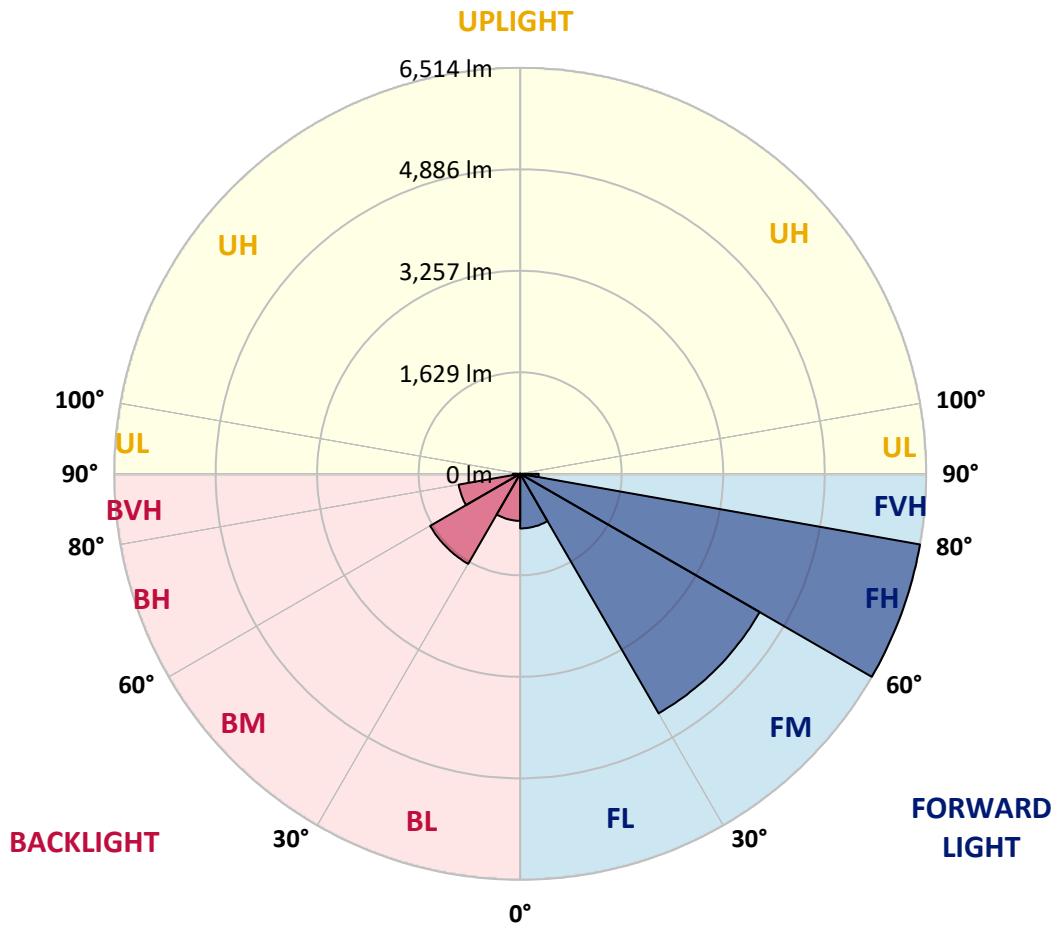
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	876.2	5.6			
FM (30°-60°)	4438.3	28.3			
FH (60°-80°)	6514.1	41.6			G3/7500
FVH (80°-90°)	298.2	1.9			G3/500
BL (0°-30°)	754.2	4.8	B2/1000		
BM (30°-60°)	1667.9	10.6	B2/2500		
BH (60°-80°)	1002.7	6.4	B3/2500		G3/2500
BVH (80°-90°)	117.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1642.6	1653.3	1643.4	1634.4	1630.2	1619.5	1618.7	1612.1	1607.9	1596.4
5°	1757.3	1771.4	1754.9	1736.7	1720.2	1693.8	1690.5	1671.5	1650.0	1625.3
7.5°	1886.9	1899.3	1880.3	1853.1	1824.2	1780.5	1779.6	1745.0	1711.1	1669.0
10°	2000.0	2016.5	1990.9	1953.8	1917.5	1867.9	1862.2	1822.5	1779.6	1725.1
12.5°	2099.9	2111.4	2086.7	2041.3	1999.2	1949.7	1942.2	1898.5	1850.6	1788.7
15°	2179.1	2194.0	2161.0	2112.3	2067.7	2019.0	2012.4	1972.8	1924.9	1859.7
17.5°	2231.1	2243.5	2209.7	2155.2	2112.3	2071.8	2066.9	2033.9	1991.8	1925.7
20°	2250.9	2264.2	2228.7	2173.4	2133.7	2102.4	2099.9	2076.0	2047.1	1986.8
22.5°	2270.8	2283.1	2236.9	2179.1	2144.5	2124.7	2123.8	2108.1	2096.6	2047.1
25°	2350.8	2354.1	2292.2	2208.8	2159.3	2142.0	2141.2	2140.3	2145.3	2106.5
27.5°	2420.2	2419.3	2366.5	2288.1	2211.3	2175.0	2174.2	2182.4	2198.1	2165.9
30°	2521.7	2512.6	2449.9	2368.2	2298.0	2241.9	2236.9	2229.5	2241.9	2216.3
32.5°	2737.1	2708.2	2606.7	2461.4	2369.8	2326.9	2320.3	2274.1	2279.0	2263.3
35°	3045.8	3007.9	2872.5	2638.1	2459.0	2397.9	2394.6	2336.0	2326.1	2312.0
37.5°	3413.2	3366.1	3208.4	2894.0	2612.5	2480.4	2475.5	2422.6	2382.2	2367.3
40°	3782.1	3722.7	3592.3	3206.0	2838.7	2618.3	2602.6	2522.5	2476.3	2451.5
42.5°	4140.4	4090.8	3979.4	3555.9	3117.6	2819.7	2785.0	2648.0	2613.3	2590.2
45°	4457.3	4412.7	4331.0	3929.9	3444.5	3093.7	3059.9	2836.2	2825.4	2825.4
47.5°	4714.9	4704.9	4618.3	4311.2	3830.0	3405.7	3347.1	3097.8	3126.7	3171.3
50°	5000.5	4973.2	4880.8	4686.8	4283.2	3763.1	3715.3	3418.9	3527.1	3649.2
52.5°	5262.9	5277.8	5174.6	5078.0	4794.9	4161.8	4077.6	3797.8	4031.4	4233.6
55°	5532.9	5533.7	5504.8	5491.6	5331.4	4602.6	4510.1	4253.4	4624.9	4875.8
57.5°	5786.3	5787.9	5830.8	5947.2	5953.8	5111.1	5006.2	4813.1	5284.4	5540.3
60°	6012.4	6024.0	6141.2	6413.6	6501.1	5693.8	5594.8	5474.2	5966.2	6223.7
62.5°	6088.4	6130.5	6391.3	6778.4	7041.7	6408.6	6311.2	6239.4	6682.7	6922.1
65°	5959.6	6056.2	6560.5	7079.7	7598.1	7258.0	7161.4	7083.0	7427.2	7652.6
67.5°	5643.5	5768.1	6550.6	7395.8	8273.3	8279.9	8189.9	8005.8	8225.4	8312.1
70°	4810.6	4997.1	5973.6	7513.9	9048.4	9677.3	9590.7	9116.9	9021.9	8602.6
72.5°	3099.5	3350.4	4398.7	6542.4	9220.9	10992.2	10987.3	10119.8	9273.7	8038.0
75°	1130.8	1284.4	2043.8	4106.5	7740.1	10925.4	10957.6	9948.1	8465.6	6208.9
77.5°	411.9	450.7	666.9	1578.2	4760.3	8766.1	8832.9	7953.0	6025.6	3116.0
80°	216.3	237.7	341.7	612.5	2039.6	5206.0	5310.8	4726.4	2832.0	938.5
82.5°	119.7	129.6	191.5	332.6	918.7	2226.2	2288.9	1867.1	996.3	397.9
85°	64.4	68.5	90.0	181.6	449.0	771.8	789.1	558.0	397.0	233.6
87.5°	19.0	23.1	29.7	57.8	175.8	173.3	177.5	110.6	156.8	118.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1580.7	0°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
1593.1	2.5°	1588.1	1585.6	1576.6	1572.4	1567.5	1566.7	1570.8	1571.6	1572.4	1573.3
1611.2	5°	1603.0	1594.7	1586.5	1581.5	1583.2	1584.0	1592.3	1598.0	1602.2	1605.5
1645.1	7.5°	1631.9	1625.3	1611.2	1610.4	1612.9	1620.3	1631.0	1644.3	1651.7	1657.5
1688.8	10°	1674.8	1662.4	1645.9	1648.4	1653.3	1664.1	1686.4	1697.1	1709.5	1720.2
1742.5	12.5°	1718.5	1707.8	1688.8	1690.5	1698.7	1717.7	1739.2	1752.4	1760.6	1768.9
1800.3	15°	1775.5	1756.5	1735.9	1735.9	1750.7	1771.4	1781.3	1792.0	1797.0	1806.0
1862.2	17.5°	1834.1	1809.3	1782.1	1780.5	1798.6	1808.5	1814.3	1815.9	1817.6	1827.5
1922.4	20°	1892.7	1865.5	1826.7	1823.4	1827.5	1825.8	1825.0	1823.4	1825.8	1838.2
1984.3	22.5°	1950.5	1919.1	1865.5	1850.6	1839.1	1823.4	1822.5	1821.7	1823.4	1835.8
2051.2	25°	2018.2	1980.2	1908.4	1863.8	1825.0	1803.6	1806.0	1806.9	1808.5	1818.4
2120.5	27.5°	2091.6	2049.5	1948.0	1859.7	1789.5	1774.7	1770.5	1773.0	1778.8	1794.5
2189.9	30°	2165.1	2115.6	1984.3	1843.2	1745.0	1724.3	1711.1	1716.9	1735.1	1750.7
2250.1	32.5°	2232.0	2182.4	2013.2	1806.9	1688.0	1655.8	1638.5	1645.9	1664.1	1669.8
2317.0	35°	2310.4	2254.2	2025.6	1749.1	1626.1	1576.6	1553.5	1542.7	1551.8	1546.0
2395.4	37.5°	2397.9	2339.3	2024.0	1673.1	1553.5	1496.5	1464.3	1423.9	1404.9	1385.1
2511.0	40°	2527.5	2443.3	2004.1	1581.5	1463.5	1411.5	1353.7	1285.2	1242.3	1203.5
2697.5	42.5°	2704.1	2587.7	1967.8	1480.8	1362.0	1313.3	1234.8	1154.8	1087.1	1022.7
2980.6	45°	2967.4	2776.7	1922.4	1373.5	1252.2	1204.3	1119.3	1029.3	952.5	870.0
3382.6	47.5°	3347.1	3031.0	1879.5	1251.4	1136.6	1092.9	1016.1	932.7	841.9	761.9
3963.7	50°	3868.8	3395.8	1839.9	1132.5	1022.7	989.7	928.6	843.6	752.0	687.6
4644.7	52.5°	4532.4	3891.9	1823.4	1017.8	916.2	903.8	855.1	775.9	689.2	634.8
5438.8	55°	5294.3	4485.4	1823.4	908.0	823.0	827.1	793.2	719.8	644.7	596.0
6257.6	57.5°	6071.9	5086.3	1790.4	806.4	743.7	761.0	739.6	675.2	607.5	557.2
7118.5	60°	6788.3	5589.8	1656.6	714.0	673.6	700.8	686.8	631.5	548.9	506.8
7838.3	62.5°	7338.9	5873.8	1399.1	640.5	615.8	647.1	639.7	573.7	538.2	520.8
8429.3	65°	7614.6	5827.5	1069.8	575.3	567.1	615.8	600.1	597.6	569.5	549.7
8621.6	67.5°	7445.4	5429.7	775.9	527.4	539.0	586.9	647.1	657.0	605.0	566.2
8080.1	70°	6703.3	4709.9	577.8	482.1	503.5	587.7	737.9	687.6	593.5	548.1
6480.4	72.5°	5099.5	3512.2	448.2	434.2	457.3	591.8	778.4	673.6	560.5	605.9
4037.2	75°	2916.2	1928.2	359.9	375.6	399.5	553.0	757.7	637.2	534.9	556.3
1599.7	77.5°	1111.9	741.2	297.2	317.8	321.1	482.9	724.7	634.8	509.3	496.9
479.6	80°	385.5	289.7	246.0	252.6	248.5	429.2	695.0	552.2	416.8	373.1
198.1	82.5°	157.7	144.5	194.8	186.5	176.6	333.5	561.3	451.5	340.9	301.3
95.7	85°	68.5	91.6	128.8	113.1	102.4	231.1	449.9	382.2	288.1	248.5
31.4	87.5°	14.0	34.7	54.5	51.2	52.8	154.4	319.4	271.6	203.9	152.7
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>
1580.7
1576.6
1607.1
1659.1
1717.7
1772.2
1809.3
1830.8
1843.2
1844.0
1831.6
1810.2
1768.1
1690.5
1564.2
1397.5
1206.0
1016.9
860.1
752.8
683.5
630.6
591.0
548.9
500.2
515.1
543.1
559.6
540.7
600.9
556.3
453.2
360.7
298.0
247.6
119.7
0.0

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