

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: P941089

Luminaire Tested: **GALN-SB4B-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15517 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

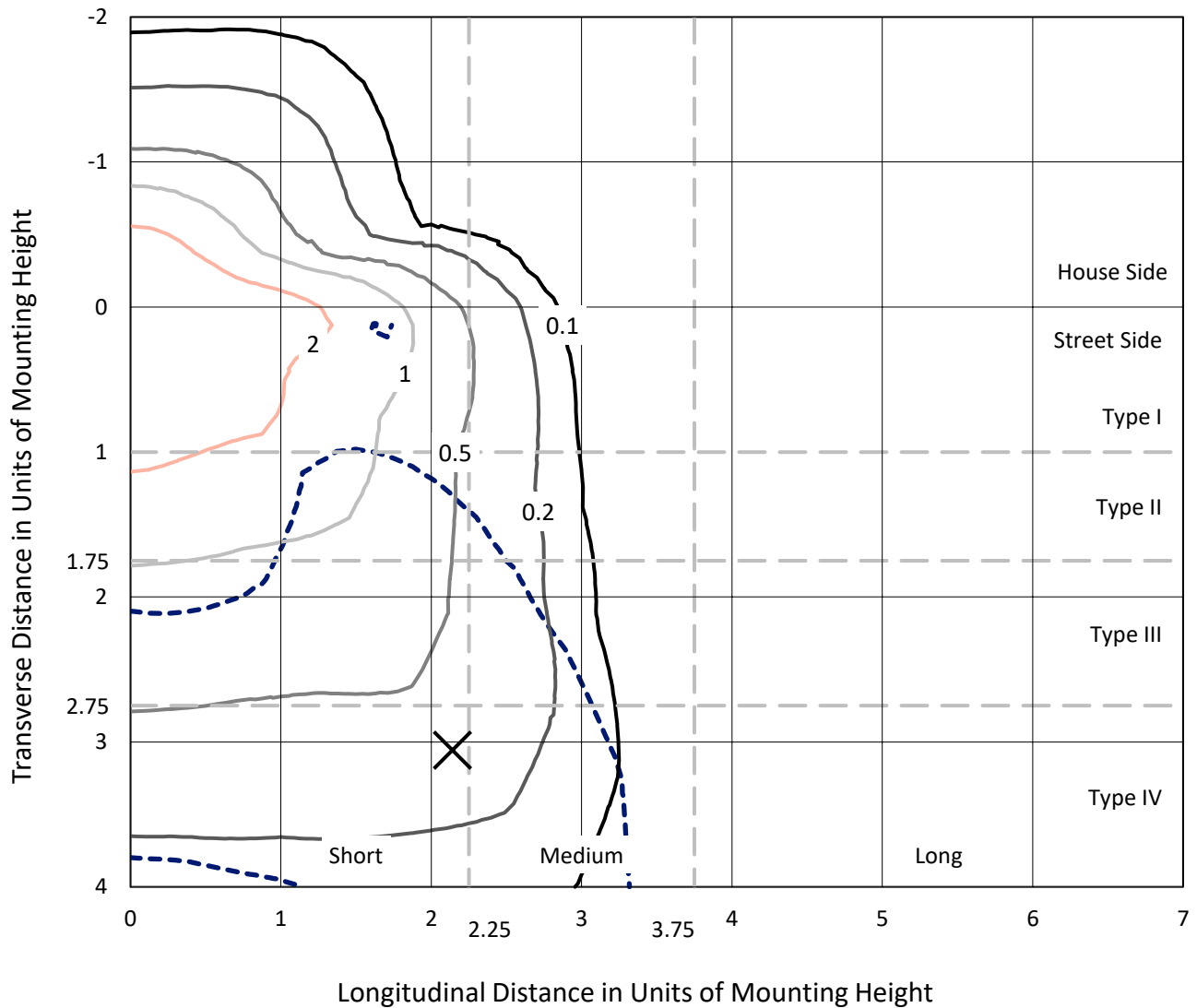
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

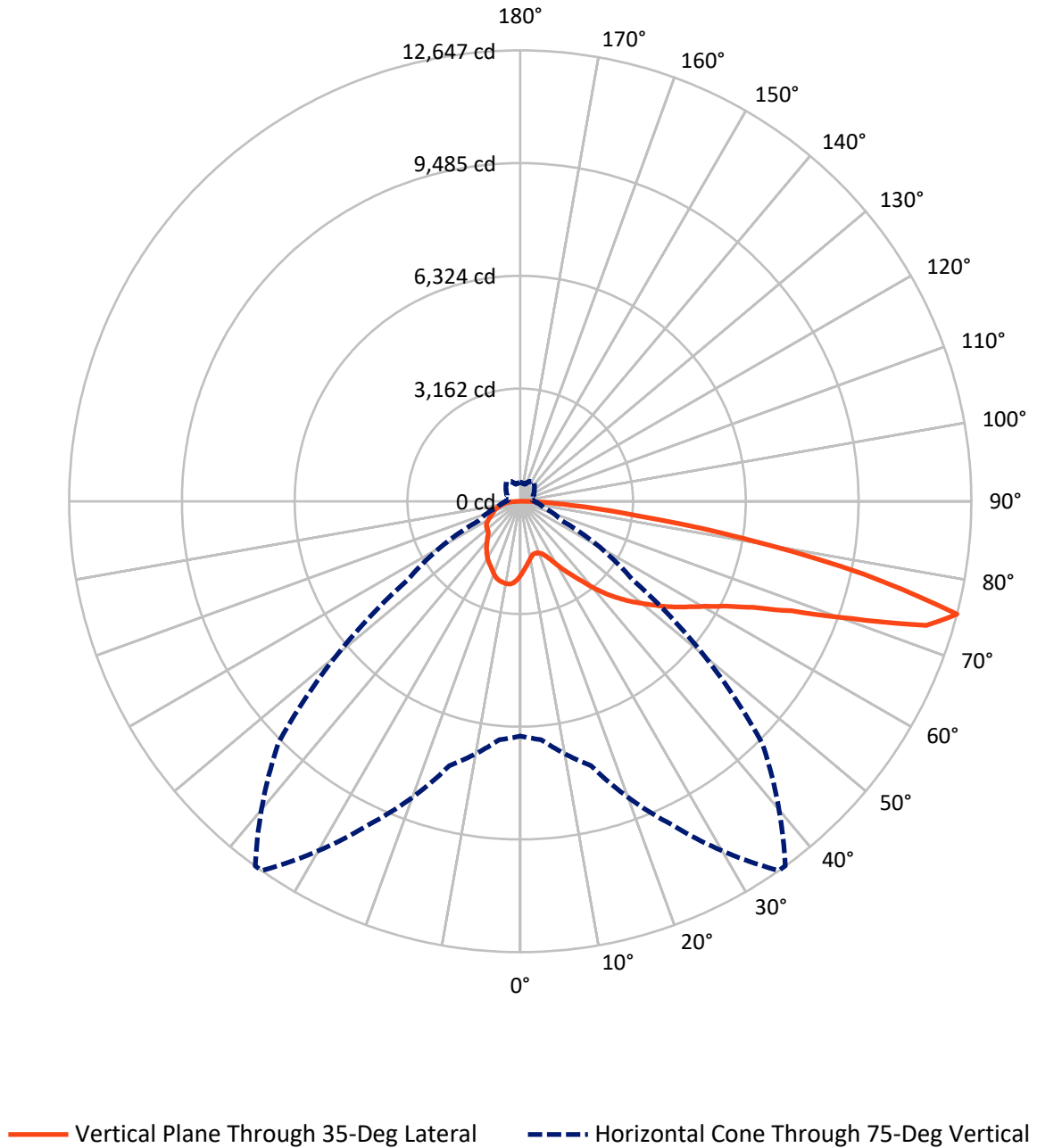
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	3692.7	0.0	3692.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	11824.4	0.0	11824.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	15517.0	0.0	15517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.8	1.3
10°-20°	564.7	3.6
20°-30°	948.3	6.1
30°-40°	1473.7	9.5
40°-50°	2187.4	14.1
50°-60°	3019.9	19.5
60°-70°	3663.8	23.6
70°-80°	3027.9	19.5
80°-90°	435.5	2.8
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°	15517.0	100.0
0°-180°	15517.0	100.0

Coefficient of Utilization



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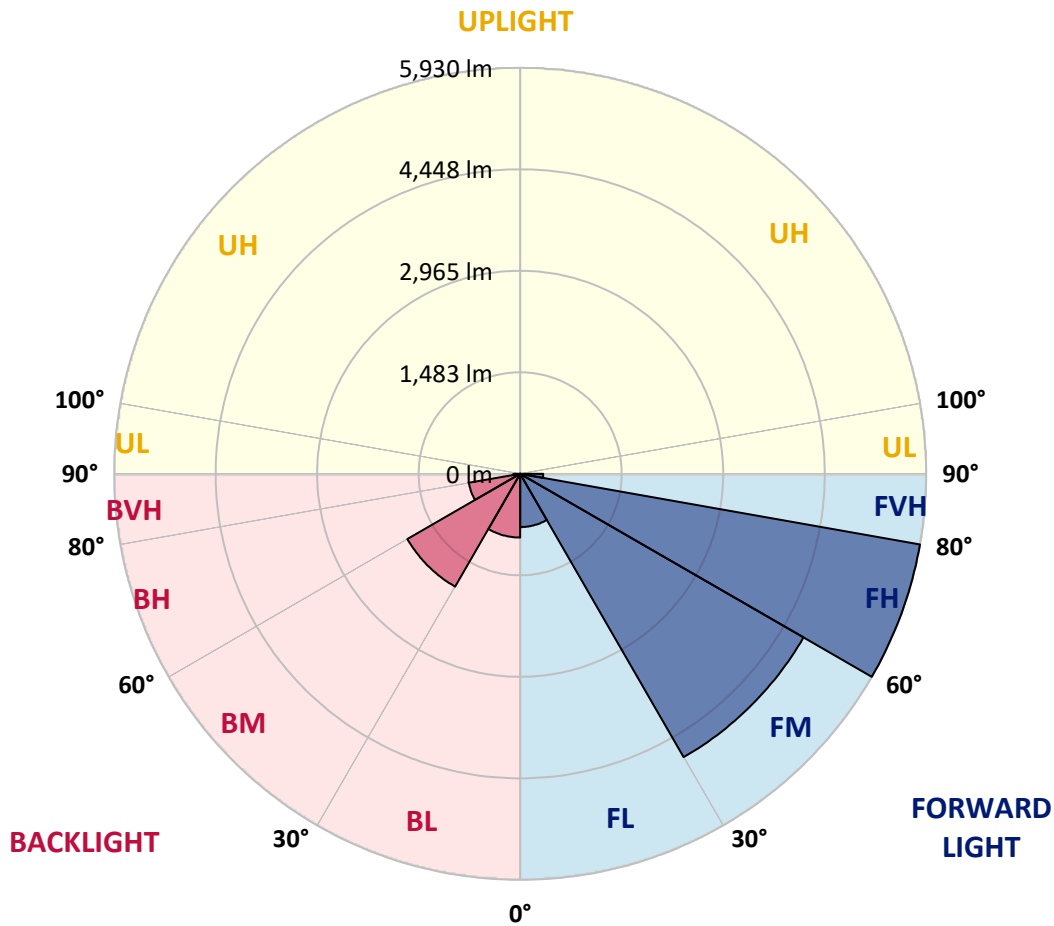
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.1	5.0			
FM (30°-60°)	4778.4	30.8			
FH (60°-80°)	5930.4	38.2			G3/7500
FVH (80°-90°)	337.4	2.2			G3/500
BL (0°-30°)	930.6	6.0	B2/1000		
BM (30°-60°)	1902.7	12.3	B2/2500		
BH (60°-80°)	761.3	4.9	B2/1000		G2/1000
BVH (80°-90°)	98.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7
2.5°	1906.7	1918.4	1923.5	1920.9	1933.5	1931.9	1949.5	1971.3	2001.5	2030.8
5°	1759.9	1772.5	1783.4	1793.4	1817.8	1825.3	1853.0	1894.9	1950.3	2006.5
7.5°	1623.2	1634.1	1650.8	1669.3	1710.4	1717.9	1764.1	1829.5	1906.7	1988.9
10°	1511.6	1522.5	1540.1	1561.1	1612.3	1621.5	1680.2	1767.4	1868.1	1972.1
12.5°	1463.8	1467.1	1477.2	1498.2	1542.6	1548.5	1613.1	1712.9	1830.4	1959.5
15°	1461.3	1468.0	1468.8	1479.7	1516.6	1519.1	1578.7	1677.7	1806.9	1957.0
17.5°	1486.4	1491.5	1483.9	1490.6	1521.7	1525.9	1572.8	1660.9	1799.3	1967.9
20°	1553.5	1557.7	1535.1	1525.9	1548.5	1551.9	1598.0	1671.8	1806.9	1990.6
22.5°	1696.1	1698.7	1643.3	1605.5	1607.2	1608.9	1649.2	1716.3	1836.2	2031.7
25°	1918.4	1916.8	1828.7	1755.7	1713.8	1704.5	1731.4	1788.4	1885.7	2086.2
27.5°	2178.5	2165.9	2077.8	1968.8	1877.3	1863.9	1858.0	1882.4	1956.2	2158.3
30°	2472.1	2460.3	2365.5	2222.9	2096.3	2074.5	2019.1	2006.5	2061.0	2256.5
32.5°	2794.2	2786.6	2673.4	2500.6	2331.1	2306.0	2212.9	2179.3	2222.1	2405.0
35°	3064.3	3057.6	2963.6	2785.8	2578.6	2547.6	2452.8	2415.0	2436.8	2595.4
37.5°	3308.4	3305.0	3224.5	3084.4	2870.5	2832.8	2726.2	2713.7	2709.5	2846.2
40°	3534.9	3526.5	3442.6	3368.8	3210.2	3175.9	3081.9	3071.0	3039.1	3154.9
42.5°	3785.7	3763.9	3642.3	3607.9	3565.1	3536.6	3480.4	3482.0	3411.6	3503.0
45°	3990.4	3977.8	3852.8	3832.7	3878.8	3867.1	3915.7	3928.3	3791.6	3867.9
47.5°	4210.1	4198.4	4092.7	4078.4	4203.4	4206.8	4378.8	4382.9	4162.3	4247.1
50°	4481.1	4464.3	4359.5	4377.1	4517.2	4529.7	4844.3	4815.8	4503.7	4632.1
52.5°	4659.8	4669.8	4647.2	4675.7	4867.0	4878.7	5302.3	5229.3	4841.8	5012.1
55°	4791.5	4811.6	4882.1	4947.5	5236.1	5247.8	5734.3	5622.8	5122.0	5364.4
57.5°	4960.9	4932.4	5064.1	5191.6	5586.7	5617.7	6154.6	6001.9	5370.3	5668.1
60°	5204.2	5184.0	5286.4	5475.1	5979.3	6028.8	6599.2	6343.3	5552.3	5908.8
62.5°	5697.4	5647.1	5663.0	5830.0	6474.2	6539.6	7100.8	6641.1	5642.9	6002.8
65°	6434.8	6348.4	6267.8	6383.6	7171.3	7235.8	7667.0	6875.1	5609.3	5820.7
67.5°	7363.4	7277.8	7178.8	7287.9	8198.0	8249.2	8365.8	7006.8	5345.1	5119.5
70°	8129.2	8097.3	8215.6	8664.4	9837.9	9839.6	9261.7	6897.8	4621.2	3629.7
72.5°	8027.7	8008.4	8631.7	10019.1	11904.8	11860.4	10109.7	6072.4	3112.9	1637.4
75°	6585.7	6710.7	7676.2	9994.8	12647.2	12641.3	9590.5	3860.4	1287.6	678.6
77.5°	3531.5	3729.5	4983.6	7379.3	9873.2	10021.6	6742.6	1350.5	552.8	434.5
80°	1151.7	1324.5	1986.4	3757.2	6415.5	6387.8	2889.8	530.1	378.3	307.9
82.5°	489.0	509.2	887.5	1774.2	3292.5	3241.3	920.2	304.5	265.9	210.5
85°	191.3	213.9	391.7	820.4	1426.0	1395.0	332.2	151.0	170.3	137.6
87.5°	62.9	76.3	140.1	281.0	443.7	427.8	81.4	52.0	73.8	62.9
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°
2067.7	0°	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7
2073.6	2.5°	2085.4	2098.8	2114.7	2138.2	2158.3	2175.1	2192.7	2203.6	2207.8	2220.4
2077.0	5°	2100.5	2129.8	2169.2	2207.8	2245.6	2268.2	2288.4	2298.4	2307.7	2314.4
2086.2	7.5°	2125.6	2163.4	2225.4	2275.8	2307.7	2326.1	2339.5	2336.2	2339.5	2341.2
2096.3	10°	2147.4	2200.3	2274.1	2321.9	2346.2	2347.1	2343.7	2332.0	2326.1	2326.9
2111.4	12.5°	2173.4	2232.2	2311.8	2352.1	2358.8	2340.4	2326.1	2306.0	2298.4	2295.1
2134.0	15°	2208.7	2275.8	2353.0	2368.1	2351.3	2327.8	2303.5	2270.7	2254.0	2240.5
2172.6	17.5°	2251.5	2325.3	2384.8	2373.9	2337.9	2299.3	2259.8	2210.3	2176.0	2161.7
2225.4	20°	2311.0	2377.3	2409.2	2361.3	2306.8	2248.1	2181.0	2120.6	2088.7	2074.5
2292.6	22.5°	2383.1	2446.9	2432.6	2339.5	2262.4	2168.4	2084.5	2040.1	2024.1	2014.1
2379.0	25°	2469.6	2524.1	2449.4	2307.7	2189.4	2062.7	1998.1	1983.9	1976.3	1968.8
2484.6	27.5°	2582.0	2611.3	2462.0	2260.7	2075.3	1950.3	1926.8	1929.3	1926.8	1914.2
2631.4	30°	2730.4	2724.6	2473.7	2184.3	1944.4	1848.8	1850.5	1861.4	1863.1	1854.7
2836.1	32.5°	2925.9	2866.3	2479.6	2085.4	1819.4	1759.9	1761.6	1773.3	1781.7	1767.4
3103.7	35°	3162.4	3031.6	2470.4	1961.2	1723.0	1675.2	1662.6	1665.9	1668.5	1655.0
3428.3	37.5°	3438.4	3217.0	2429.3	1823.6	1643.3	1592.1	1565.3	1542.6	1529.2	1516.6
3795.8	40°	3741.2	3419.1	2353.8	1689.4	1554.4	1504.0	1463.8	1421.0	1375.7	1358.9
4185.0	42.5°	4058.3	3627.2	2262.4	1561.1	1452.0	1410.9	1368.2	1306.1	1238.1	1203.7
4589.3	45°	4387.1	3840.2	2172.6	1434.4	1347.2	1329.6	1280.1	1205.4	1131.6	1088.0
4994.5	47.5°	4709.3	4041.5	2040.9	1306.9	1249.0	1268.3	1229.7	1161.0	1078.8	1010.0
5396.3	50°	5017.1	4230.3	1825.3	1177.7	1169.3	1249.9	1213.0	1114.0	1020.0	932.0
5790.5	52.5°	5322.5	4382.9	1549.3	1060.3	1126.6	1244.8	1191.2	1082.1	967.2	874.9
6161.3	55°	5581.7	4461.8	1283.4	959.6	1064.5	1202.1	1165.2	1044.4	892.5	794.4
6415.5	57.5°	5729.3	4398.0	1062.0	860.7	978.9	1131.6	1120.7	963.8	803.6	728.1
6465.0	60°	5665.5	4139.7	880.8	774.3	897.6	1055.3	1043.5	884.1	735.7	664.4
6199.9	62.5°	5314.1	3647.3	737.3	698.8	823.7	977.3	966.3	822.9	683.7	614.9
5496.1	65°	4606.1	2967.0	625.8	635.8	749.1	883.3	899.2	771.7	642.6	575.4
4252.1	67.5°	3513.1	2149.1	538.5	581.3	676.1	791.0	837.2	734.8	608.2	544.4
2460.3	70°	2002.3	1220.5	464.7	528.5	611.5	705.5	789.4	705.5	571.3	518.4
921.9	72.5°	759.2	560.3	401.8	475.6	549.4	633.3	736.5	659.3	528.5	489.0
476.5	75°	405.2	341.4	338.1	413.5	478.1	562.9	670.2	614.0	496.6	516.7
329.7	77.5°	276.0	241.6	282.7	354.0	400.1	484.9	599.8	545.2	430.3	428.6
228.2	80°	191.3	171.1	229.8	285.2	309.5	407.7	523.4	468.1	350.6	327.1
140.9	82.5°	114.9	111.6	172.0	213.1	218.9	314.6	433.7	392.6	286.9	250.0
83.9	85°	62.9	66.3	109.9	125.0	127.5	219.8	339.7	303.7	220.6	185.4
30.2	87.5°	17.6	22.6	40.3	49.5	61.2	114.1	202.2	180.4	110.7	77.2
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>
2067.7
2219.6
2316.0
2343.7
2328.6
2293.4
2244.7
2162.5
2072.8
2015.7
1968.8
1916.8
1858.9
1774.2
1664.3
1525.0
1366.5
1207.9
1084.6
1002.4
924.4
864.8
786.0
718.0
654.3
604.0
564.5
534.3
511.7
482.3
533.5
395.1
312.9
251.7
187.1
77.2
0.0

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