

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: P940869

Luminaire Tested: **GALN-SB4A-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940869
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-SB4A-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16996 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

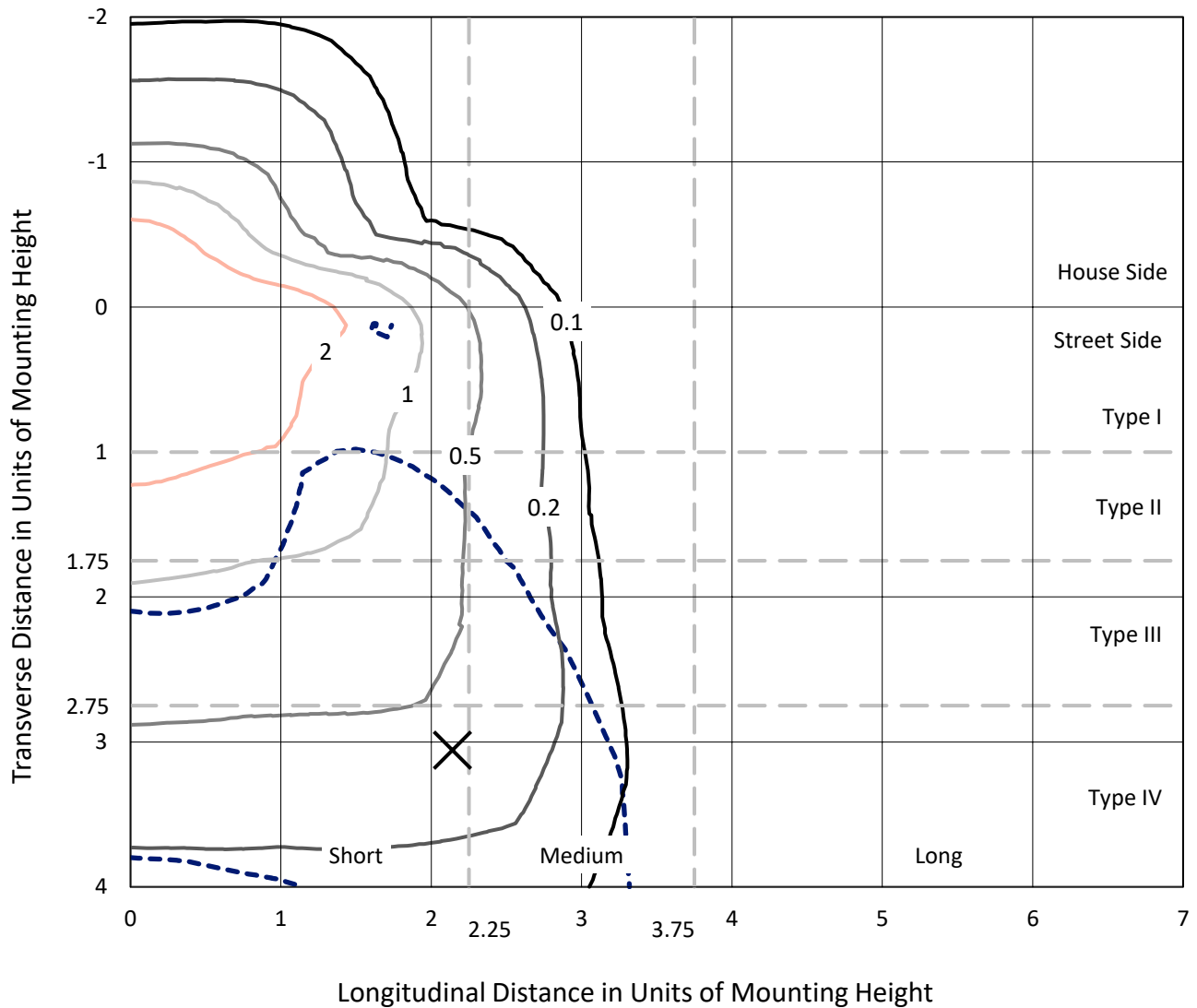
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

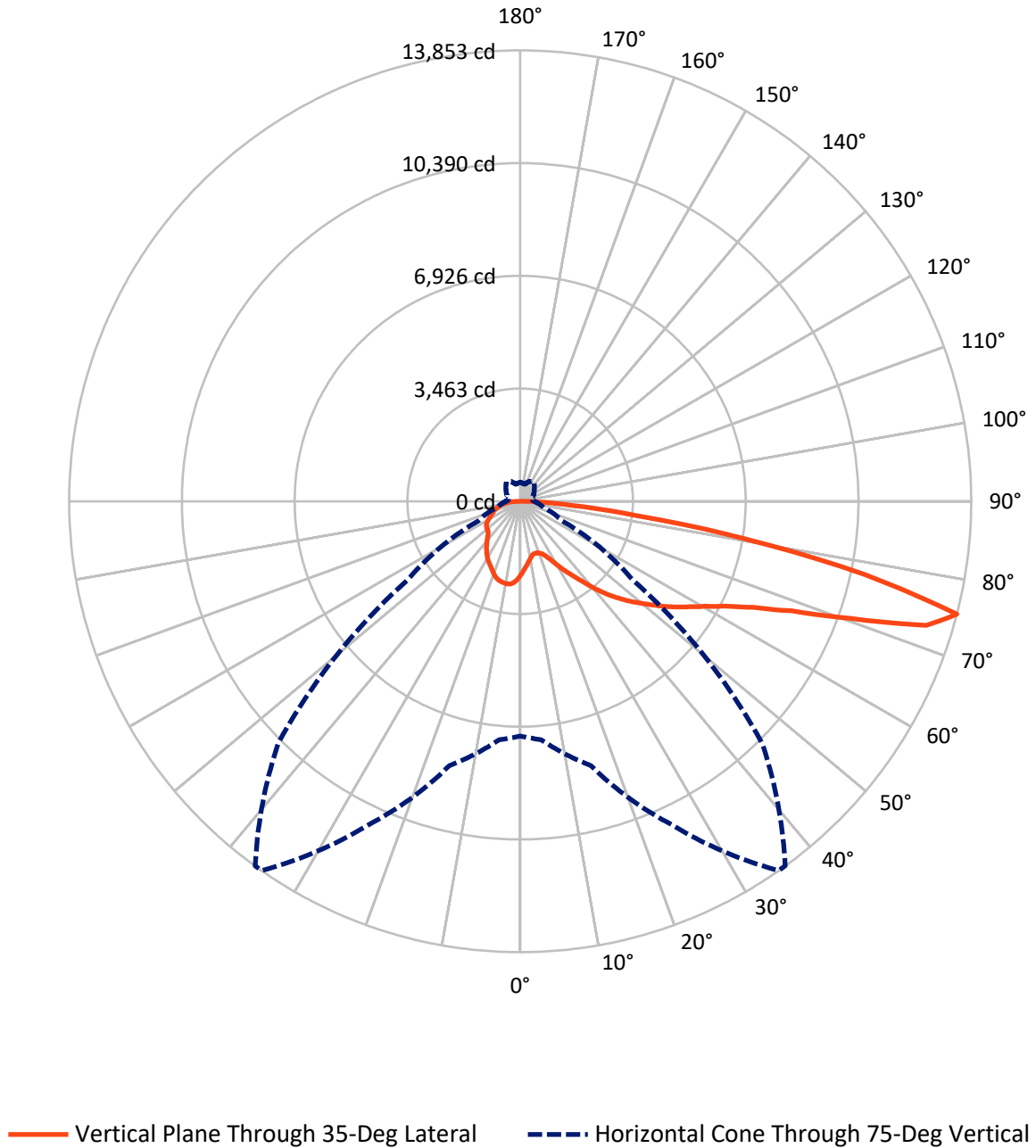
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4044.6	0.0	4044.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	12951.4	0.0	12951.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	16996.0	0.0	16996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	1.3
10°-20°	618.5	3.6
20°-30°	1038.7	6.1
30°-40°	1614.2	9.5
40°-50°	2395.9	14.1
50°-60°	3307.7	19.5
60°-70°	4013.0	23.6
70°-80°	3316.5	19.5
80°-90°	477.0	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°	16996.0	100.0
0°-180°	16996.0	100.0

Coefficient of Utilization



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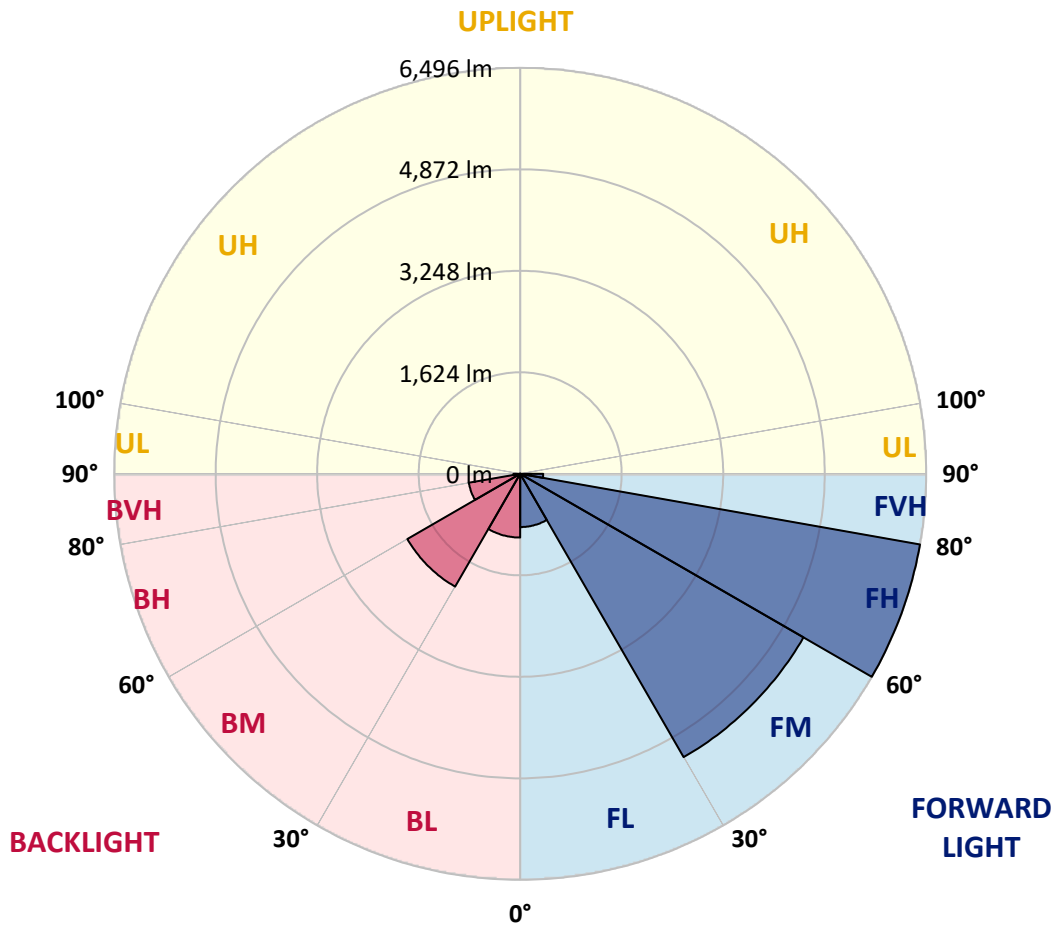
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	852.3	5.0			
FM (30°-60°)	5233.8	30.8			
FH (60°-80°)	6495.6	38.2			G3/7500
FVH (80°-90°)	369.6	2.2			G3/500
BL (0°-30°)	1019.3	6.0	B3/2500		
BM (30°-60°)	2084.0	12.3	B2/2500		
BH (60°-80°)	833.9	4.9	B2/1000		G2/1000
BVH (80°-90°)	107.4	0.6			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°	36°	45°	55°	65°	75°
0°	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8
2.5°	2088.4	2101.3	2106.8	2104.0	2117.8	2116.0	2135.3	2159.2	2192.2	2224.4
5°	1927.6	1941.4	1953.4	1964.4	1991.0	1999.3	2029.6	2075.6	2136.2	2197.8
7.5°	1777.9	1789.8	1808.2	1828.4	1873.4	1881.7	1932.2	2003.9	2088.4	2178.5
10°	1655.7	1667.6	1686.9	1709.9	1765.9	1776.0	1840.3	1935.9	2046.2	2160.1
12.5°	1603.3	1607.0	1618.0	1641.0	1689.7	1696.1	1766.8	1876.2	2004.8	2146.3
15°	1600.5	1607.9	1608.8	1620.8	1661.2	1663.9	1729.2	1837.6	1979.1	2143.6
17.5°	1628.1	1633.6	1625.4	1632.7	1666.7	1671.3	1722.7	1819.2	1970.8	2155.5
20°	1701.6	1706.2	1681.4	1671.3	1696.1	1699.8	1750.3	1831.2	1979.1	2180.3
22.5°	1857.8	1860.6	1799.9	1758.6	1760.4	1762.3	1806.4	1879.9	2011.2	2225.3
25°	2101.3	2099.4	2003.0	1923.0	1877.1	1867.0	1896.4	1958.9	2065.5	2285.0
27.5°	2386.1	2372.3	2275.9	2156.4	2056.3	2041.6	2035.1	2061.8	2142.6	2364.1
30°	2707.7	2694.8	2591.0	2434.8	2296.1	2272.2	2211.5	2197.8	2257.5	2471.6
32.5°	3060.5	3052.2	2928.2	2738.9	2553.3	2525.8	2423.8	2387.0	2433.9	2634.2
35°	3356.4	3349.0	3246.1	3051.3	2824.4	2790.4	2686.6	2645.2	2669.1	2842.8
37.5°	3623.7	3620.1	3531.9	3378.4	3144.1	3102.8	2986.1	2972.3	2967.7	3117.5
40°	3871.8	3862.6	3770.7	3689.9	3516.2	3478.6	3375.7	3363.7	3328.8	3455.6
42.5°	4146.5	4122.6	3989.4	3951.7	3904.9	3873.6	3812.1	3813.9	3736.7	3836.9
45°	4370.7	4356.9	4220.0	4198.0	4248.5	4235.6	4288.9	4302.7	4153.0	4236.6
47.5°	4611.4	4598.6	4482.8	4467.2	4604.1	4607.8	4796.1	4800.7	4559.1	4651.9
50°	4908.2	4889.8	4775.0	4794.3	4947.7	4961.5	5306.0	5274.8	4933.0	5073.6
52.5°	5103.9	5114.9	5090.1	5121.4	5330.9	5343.7	5807.7	5727.8	5303.3	5489.8
55°	5248.2	5270.2	5347.4	5419.1	5735.1	5748.0	6280.9	6158.7	5610.2	5875.7
57.5°	5433.8	5402.5	5546.8	5686.4	6119.2	6153.2	6741.2	6574.0	5882.1	6208.3
60°	5700.2	5678.2	5790.3	5997.0	6549.2	6603.4	7228.2	6947.9	6081.5	6472.0
62.5°	6240.5	6185.3	6202.8	6385.6	7091.3	7162.9	7777.6	7274.1	6180.7	6574.9
65°	7048.1	6953.4	6865.2	6992.0	7854.8	7925.5	8397.8	7530.5	6144.0	6375.5
67.5°	8065.2	7971.5	7863.1	7982.5	8979.4	9035.4	9163.2	7674.7	5854.6	5607.4
70°	8904.1	8869.1	8998.7	9490.2	10775.6	10777.5	10144.4	7555.3	5061.6	3975.6
72.5°	8792.9	8771.7	9454.4	10974.1	13039.6	12990.9	11073.3	6651.2	3409.7	1793.5
75°	7213.5	7350.4	8407.9	10947.5	13852.7	13846.3	10504.6	4228.3	1410.4	743.3
77.5°	3868.1	4085.0	5458.6	8082.6	10814.2	10976.9	7385.3	1479.3	605.5	475.9
80°	1261.5	1450.8	2175.7	4115.3	7027.0	6996.6	3165.3	580.7	414.4	337.2
82.5°	535.7	557.7	972.1	1943.3	3606.3	3550.2	1007.9	333.5	291.3	230.6
85°	209.5	234.3	429.1	898.6	1562.0	1528.0	363.8	165.4	186.5	150.7
87.5°	68.9	83.6	153.4	307.8	486.0	468.6	89.1	57.0	80.9	68.9
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°
2264.8	0°	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8
2271.3	2.5°	2284.1	2298.8	2316.3	2342.0	2364.1	2382.4	2401.7	2413.7	2418.3	2432.1
2274.9	5°	2300.7	2332.8	2376.0	2418.3	2459.6	2484.4	2506.5	2517.5	2527.6	2535.0
2285.0	7.5°	2328.2	2369.6	2437.6	2492.7	2527.6	2547.8	2562.5	2558.8	2562.5	2564.4
2296.1	10°	2352.1	2410.0	2490.9	2543.2	2569.9	2570.8	2567.1	2554.3	2547.8	2548.7
2312.6	12.5°	2380.6	2444.9	2532.2	2576.3	2583.7	2563.4	2547.8	2525.8	2517.5	2513.8
2337.4	15°	2419.2	2492.7	2577.2	2593.8	2575.4	2549.7	2523.0	2487.2	2468.8	2454.1
2379.7	17.5°	2466.0	2546.9	2612.1	2600.2	2560.7	2518.4	2475.2	2421.0	2383.4	2367.7
2437.6	20°	2531.3	2603.9	2638.8	2586.4	2526.7	2462.4	2388.9	2322.7	2287.8	2272.2
2511.1	22.5°	2610.3	2680.1	2664.5	2562.5	2478.0	2375.1	2283.2	2234.5	2217.1	2206.0
2605.7	25°	2704.9	2764.7	2682.9	2527.6	2398.1	2259.3	2188.6	2173.0	2164.7	2156.4
2721.5	27.5°	2828.1	2860.2	2696.7	2476.2	2273.1	2136.2	2110.5	2113.2	2110.5	2096.7
2882.3	30°	2990.7	2984.2	2709.5	2392.5	2129.8	2025.0	2026.9	2038.8	2040.6	2031.5
3106.4	32.5°	3204.8	3139.5	2716.0	2284.1	1992.9	1927.6	1929.5	1942.3	1951.5	1935.9
3399.5	35°	3463.9	3320.5	2705.9	2148.1	1887.2	1834.8	1821.1	1824.7	1827.5	1812.8
3755.1	37.5°	3766.1	3523.6	2660.8	1997.5	1799.9	1743.9	1714.5	1689.7	1675.0	1661.2
4157.6	40°	4097.8	3745.0	2578.1	1850.5	1702.5	1647.4	1603.3	1556.4	1506.8	1488.4
4583.9	42.5°	4445.1	3972.9	2478.0	1709.9	1590.4	1545.4	1498.6	1430.6	1356.1	1318.5
5026.7	45°	4805.3	4206.2	2379.7	1571.1	1475.6	1456.3	1402.1	1320.3	1239.5	1191.7
5470.5	47.5°	5158.1	4426.8	2235.4	1431.5	1368.1	1389.2	1347.0	1271.6	1181.6	1106.2
5910.6	50°	5495.3	4633.5	1999.3	1290.0	1280.8	1369.0	1328.6	1220.2	1117.3	1020.8
6342.4	52.5°	5829.8	4800.7	1697.0	1161.4	1233.9	1363.5	1304.7	1185.2	1059.4	958.3
6748.6	55°	6113.7	4887.1	1405.8	1051.1	1166.0	1316.6	1276.2	1143.9	977.6	870.1
7027.0	57.5°	6275.4	4817.2	1163.2	942.7	1072.2	1239.5	1227.5	1055.7	880.2	797.5
7081.2	60°	6205.5	4534.3	964.7	848.0	983.1	1155.8	1143.0	968.4	805.8	727.7
6790.8	62.5°	5820.6	3994.9	807.6	765.4	902.3	1070.4	1058.5	901.3	748.8	673.5
6020.0	65°	5045.1	3249.8	685.4	696.4	820.5	967.5	984.9	845.3	703.8	630.3
4657.4	67.5°	3847.9	2354.0	589.9	636.7	740.5	866.4	917.0	804.9	666.1	596.3
2694.8	70°	2193.2	1336.8	509.0	578.8	669.8	772.7	864.6	772.7	625.7	567.8
1009.8	72.5°	831.5	613.8	440.1	521.0	601.8	693.7	806.7	722.2	578.8	535.7
521.9	75°	443.8	373.9	370.3	453.0	523.7	616.5	734.1	672.6	543.9	566.0
361.1	77.5°	302.3	264.6	309.6	387.7	438.3	531.1	656.9	597.2	471.3	469.5
249.9	80°	209.5	187.4	251.8	312.4	339.0	446.5	573.3	512.7	384.1	358.3
154.4	82.5°	125.9	122.2	188.4	233.4	239.8	344.5	475.0	430.0	314.2	273.8
91.9	85°	68.9	72.6	120.4	136.9	139.7	240.7	372.1	332.6	241.6	203.1
33.1	87.5°	19.3	24.8	44.1	54.2	67.1	125.0	221.4	197.5	121.3	84.5
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>
2264.8
2431.1
2536.8
2567.1
2550.6
2512.0
2458.7
2368.7
2270.3
2207.9
2156.4
2099.4
2036.1
1943.3
1822.9
1670.4
1496.7
1323.1
1188.0
1098.0
1012.5
947.3
860.9
786.5
716.7
661.5
618.3
585.3
560.5
528.3
584.4
432.8
342.7
275.6
204.9
84.5
0.0

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