

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: P940839

Luminaire Tested: **GALN-SB4A-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940839
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-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15966 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

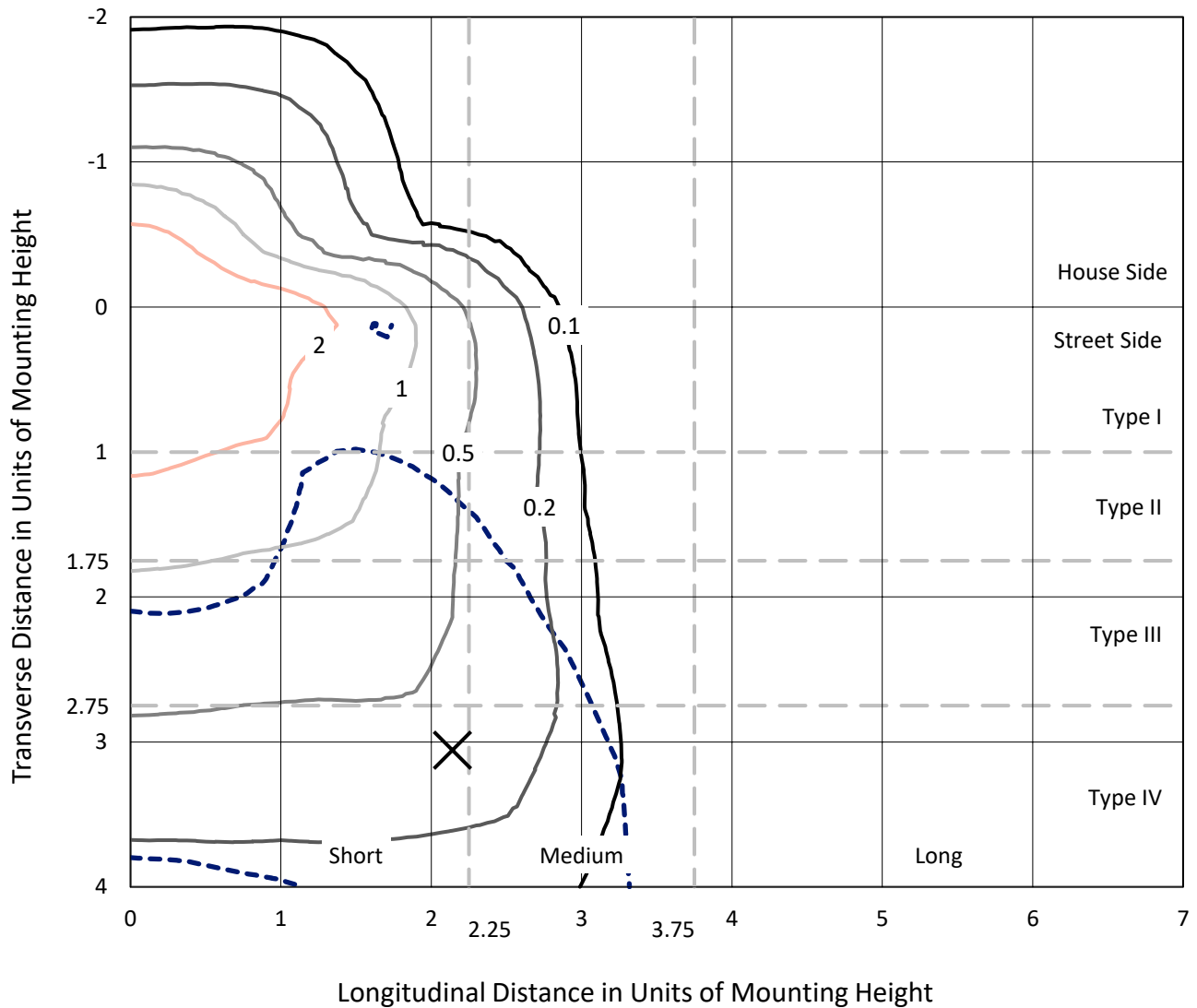
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

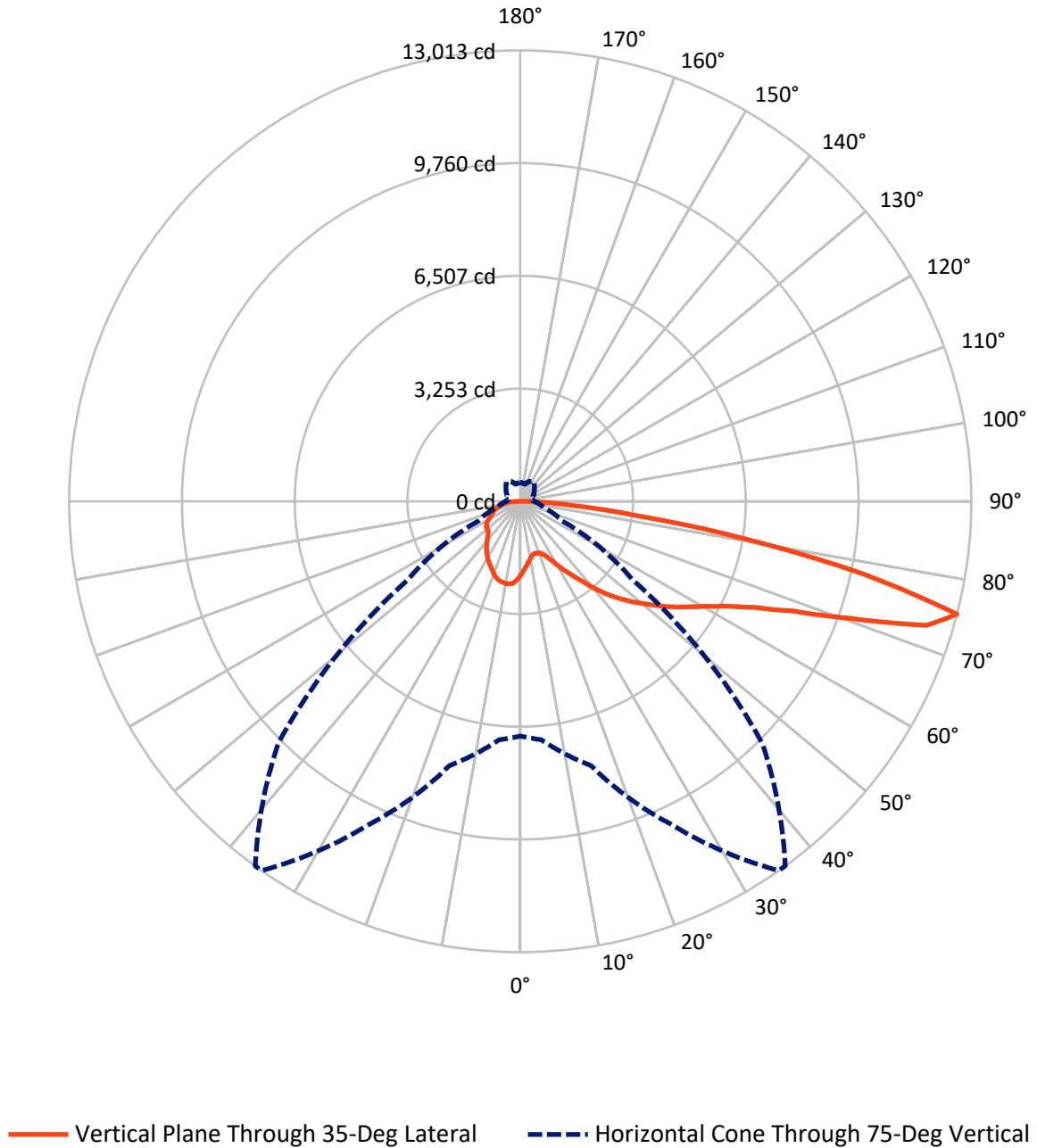
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	3799.5	0.0	3799.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	12166.5	0.0	12166.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	15966.0	0.0	15966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.4	1.3
10°-20°	581.0	3.6
20°-30°	975.7	6.1
30°-40°	1516.4	9.5
40°-50°	2250.7	14.1
50°-60°	3107.3	19.5
60°-70°	3769.8	23.6
70°-80°	3115.5	19.5
80°-90°	448.1	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°	15966.0	100.0
0°-180°	15966.0	100.0

Coefficient of Utilization



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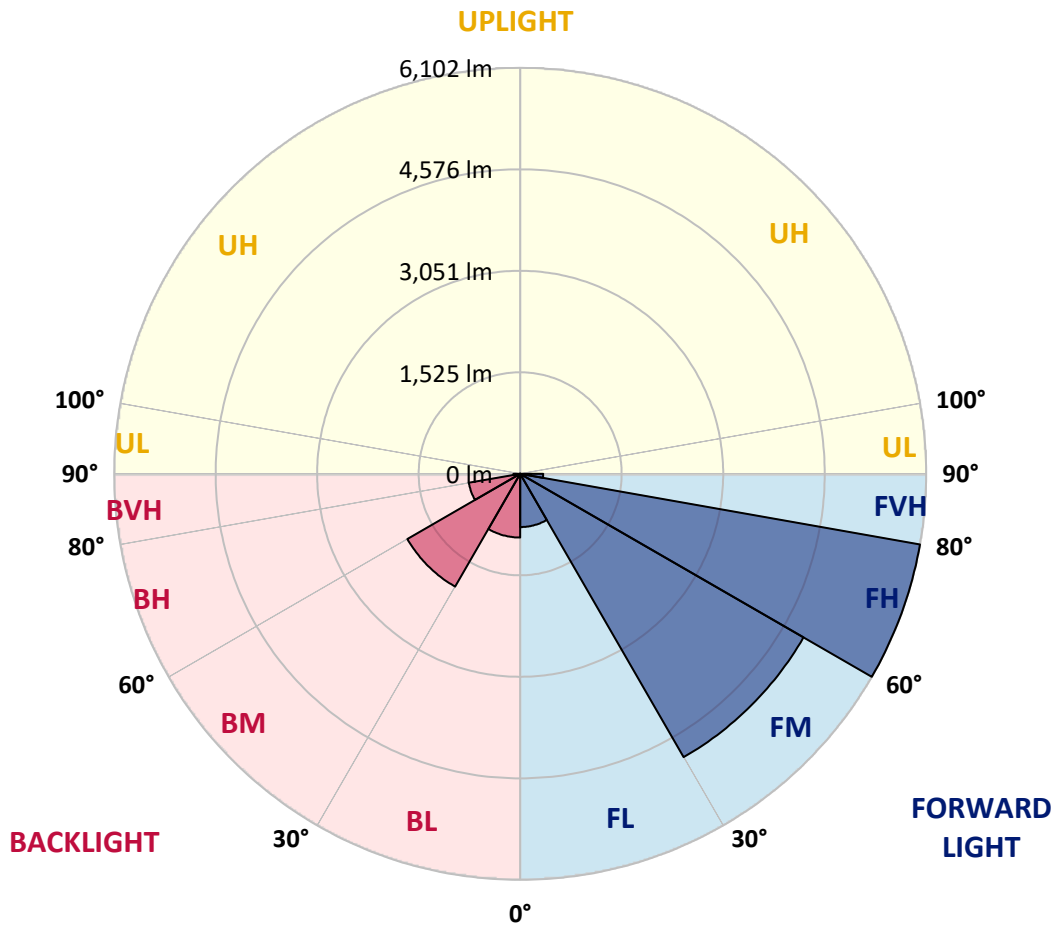
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	800.7	5.0			
FM (30°-60°)	4916.7	30.8			
FH (60°-80°)	6102.0	38.2			G3/7500
FVH (80°-90°)	347.2	2.2			G3/500
BL (0°-30°)	957.5	6.0	B2/1000		
BM (30°-60°)	1957.7	12.3	B2/2500		
BH (60°-80°)	783.3	4.9	B2/1000		G2/1000
BVH (80°-90°)	100.9	0.6			G2/225
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°	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6
2.5°	1961.9	1973.9	1979.1	1976.5	1989.5	1987.8	2005.9	2028.3	2059.4	2089.6
5°	1810.8	1823.8	1835.0	1845.3	1870.4	1878.1	1906.6	1949.8	2006.7	2064.6
7.5°	1670.1	1681.3	1698.6	1717.6	1759.9	1767.7	1815.1	1882.5	1961.9	2046.4
10°	1555.3	1566.6	1584.7	1606.3	1658.9	1668.4	1728.8	1818.6	1922.2	2029.2
12.5°	1506.1	1509.6	1519.9	1541.5	1587.3	1593.3	1659.8	1762.5	1883.3	2016.2
15°	1503.5	1510.5	1511.3	1522.5	1560.5	1563.1	1624.4	1726.2	1859.1	2013.6
17.5°	1529.4	1534.6	1526.8	1533.8	1565.7	1570.0	1618.3	1709.0	1851.4	2024.9
20°	1598.5	1602.8	1579.5	1570.0	1593.3	1596.8	1644.2	1720.2	1859.1	2048.2
22.5°	1745.2	1747.8	1690.8	1652.0	1653.7	1655.5	1696.9	1765.9	1889.4	2090.5
25°	1973.9	1972.2	1881.6	1806.5	1763.3	1753.8	1781.5	1840.2	1940.3	2146.6
27.5°	2241.5	2228.6	2137.9	2025.7	1931.7	1917.8	1911.8	1936.8	2012.8	2220.8
30°	2543.6	2531.5	2434.0	2287.3	2156.9	2134.5	2077.5	2064.6	2120.7	2321.8
32.5°	2875.0	2867.3	2750.7	2572.9	2398.6	2372.7	2276.9	2242.4	2286.4	2474.5
35°	3153.0	3146.1	3049.4	2866.4	2653.2	2621.3	2523.7	2484.9	2507.3	2670.5
37.5°	3404.1	3400.7	3317.8	3173.7	2953.6	2914.7	2805.1	2792.2	2787.9	2928.5
40°	3637.2	3628.5	3542.2	3466.3	3303.1	3267.8	3171.1	3159.9	3127.1	3246.2
42.5°	3895.2	3872.8	3747.6	3712.3	3668.2	3638.9	3581.1	3582.8	3510.3	3604.4
45°	4105.8	4092.9	3964.3	3943.6	3991.0	3979.0	4029.0	4042.0	3901.3	3979.8
47.5°	4332.0	4319.9	4211.1	4196.5	4325.1	4328.5	4505.5	4509.8	4282.8	4369.9
50°	4610.8	4593.5	4485.6	4503.7	4647.9	4660.8	4984.5	4955.1	4634.1	4766.1
52.5°	4794.6	4805.0	4781.7	4811.0	5007.8	5019.9	5455.7	5380.7	4981.9	5157.1
55°	4930.1	4950.8	5023.3	5090.6	5387.6	5399.6	5900.3	5785.5	5270.2	5519.6
57.5°	5104.5	5075.1	5210.6	5341.8	5748.3	5780.3	6332.7	6175.6	5525.7	5832.1
60°	5354.8	5334.0	5439.3	5633.5	6152.3	6203.2	6790.1	6526.9	5713.0	6079.8
62.5°	5862.3	5810.5	5826.9	5998.6	6661.5	6728.8	7306.3	6833.3	5806.2	6176.4
65°	6621.0	6532.1	6449.2	6568.3	7378.8	7445.2	7888.9	7074.1	5771.6	5989.2
67.5°	7576.4	7488.4	7386.5	7498.7	8435.2	8487.9	8607.8	7209.6	5499.8	5267.6
70°	8364.4	8331.6	8453.3	8915.1	10122.6	10124.3	9529.6	7097.4	4754.9	3734.7
72.5°	8260.0	8240.2	8881.4	10309.0	12249.3	12203.6	10402.3	6248.1	3203.0	1684.8
75°	6776.3	6904.9	7898.4	10284.0	13013.2	13007.1	9868.0	3972.1	1324.9	698.3
77.5°	3633.7	3837.4	5127.8	7592.8	10158.9	10311.6	6937.7	1389.6	568.8	447.1
80°	1185.1	1362.9	2043.9	3865.9	6601.1	6572.6	2973.4	545.5	389.3	316.8
82.5°	503.2	523.9	913.2	1825.5	3387.7	3335.1	946.8	313.3	273.6	216.6
85°	196.8	220.1	403.1	844.1	1467.3	1435.4	341.8	155.4	175.2	141.6
87.5°	64.7	78.5	144.1	289.1	456.6	440.2	83.7	53.5	76.0	64.7
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°
2127.6	0°	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6
2133.6	2.5°	2145.7	2159.5	2175.9	2200.1	2220.8	2238.1	2256.2	2267.4	2271.7	2284.7
2137.1	5°	2161.2	2191.4	2232.0	2271.7	2310.6	2333.9	2354.6	2364.9	2374.4	2381.3
2146.6	7.5°	2187.1	2226.0	2289.8	2341.6	2374.4	2393.4	2407.2	2403.8	2407.2	2409.0
2156.9	10°	2209.6	2263.9	2339.9	2389.1	2414.1	2415.0	2411.5	2399.5	2393.4	2394.3
2172.5	12.5°	2236.3	2296.7	2378.7	2420.2	2427.1	2408.1	2393.4	2372.7	2364.9	2361.5
2195.8	15°	2272.6	2341.6	2421.0	2436.6	2419.3	2395.1	2370.1	2336.5	2319.2	2305.4
2235.5	17.5°	2316.6	2392.6	2453.8	2442.6	2405.5	2365.8	2325.2	2274.3	2238.9	2224.2
2289.8	20°	2377.9	2446.1	2478.9	2429.7	2373.6	2313.1	2244.1	2182.0	2149.2	2134.5
2358.9	22.5°	2452.1	2517.7	2503.0	2407.2	2327.8	2231.2	2144.8	2099.1	2082.7	2072.3
2447.8	25°	2541.0	2597.1	2520.3	2374.4	2252.7	2122.4	2055.9	2041.3	2033.5	2025.7
2556.5	27.5°	2656.7	2686.9	2533.2	2326.1	2135.3	2006.7	1982.6	1985.2	1982.6	1969.6
2707.6	30°	2809.4	2803.4	2545.3	2247.6	2000.7	1902.3	1904.0	1915.3	1917.0	1908.3
2918.2	32.5°	3010.5	2949.3	2551.4	2145.7	1872.1	1810.8	1812.5	1824.6	1833.3	1818.6
3193.5	35°	3253.9	3119.3	2541.9	2018.0	1772.8	1723.6	1710.7	1714.1	1716.7	1702.9
3527.5	37.5°	3537.9	3310.0	2499.6	1876.4	1690.8	1638.2	1610.6	1587.3	1573.5	1560.5
3905.6	40°	3849.5	3518.1	2421.9	1738.3	1599.4	1547.6	1506.1	1462.1	1415.5	1398.2
4306.1	42.5°	4175.7	3732.1	2327.8	1606.3	1494.1	1451.8	1407.7	1343.9	1274.0	1238.6
4722.1	45°	4514.1	3951.3	2235.5	1475.9	1386.2	1368.0	1317.1	1240.3	1164.3	1119.5
5139.0	47.5°	4845.5	4158.5	2100.0	1344.7	1285.2	1305.0	1265.3	1194.6	1110.0	1039.2
5552.4	50°	5162.3	4352.7	1878.1	1211.8	1203.2	1286.0	1248.1	1146.2	1049.5	958.9
5958.1	52.5°	5476.5	4509.8	1594.2	1091.0	1159.2	1280.9	1225.6	1113.4	995.2	900.2
6339.6	55°	5743.2	4590.9	1320.6	987.4	1095.3	1236.8	1198.9	1074.6	918.4	817.4
6601.1	57.5°	5895.1	4525.3	1092.7	885.6	1007.3	1164.3	1153.1	991.7	826.9	749.2
6652.0	60°	5829.5	4259.5	906.3	796.7	923.5	1085.8	1073.7	909.7	757.0	683.6
6379.3	62.5°	5467.8	3752.8	758.7	719.0	847.6	1005.5	994.3	846.7	703.4	632.7
5655.1	65°	4739.4	3052.8	643.9	654.2	770.8	908.9	925.3	794.1	661.1	592.1
4375.1	67.5°	3614.7	2211.3	554.1	598.1	695.7	813.9	861.4	756.1	625.8	560.2
2531.5	70°	2060.3	1255.8	478.2	543.8	629.2	725.9	812.2	725.9	587.8	533.4
948.6	72.5°	781.1	576.6	413.4	489.4	565.3	651.7	757.8	678.4	543.8	503.2
490.2	75°	416.9	351.3	347.8	425.5	492.0	579.1	689.6	631.8	511.0	531.7
339.2	77.5°	284.0	248.6	290.9	364.2	411.7	498.9	617.1	561.0	442.8	441.1
234.8	80°	196.8	176.1	236.5	293.5	318.5	419.5	538.6	481.6	360.8	336.6
145.0	82.5°	118.2	114.8	176.9	219.2	225.3	323.7	446.2	403.9	295.2	257.2
86.3	85°	64.7	68.2	113.1	128.6	131.2	226.1	349.6	312.4	227.0	190.7
31.1	87.5°	18.1	23.3	41.4	50.9	63.0	117.4	208.0	185.6	113.9	79.4
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>
2127.6
2283.8
2383.1
2411.5
2396.0
2359.8
2309.7
2225.1
2132.8
2074.1
2025.7
1972.2
1912.7
1825.5
1712.4
1569.1
1406.0
1242.9
1116.0
1031.4
951.2
889.9
808.7
738.8
673.2
621.4
580.9
549.8
526.5
496.3
548.9
406.5
321.9
258.9
192.5
79.4
0.0

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