

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: P940059

Luminaire Tested: **GALN-SB2D-940-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940059  
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-SB2D-940-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

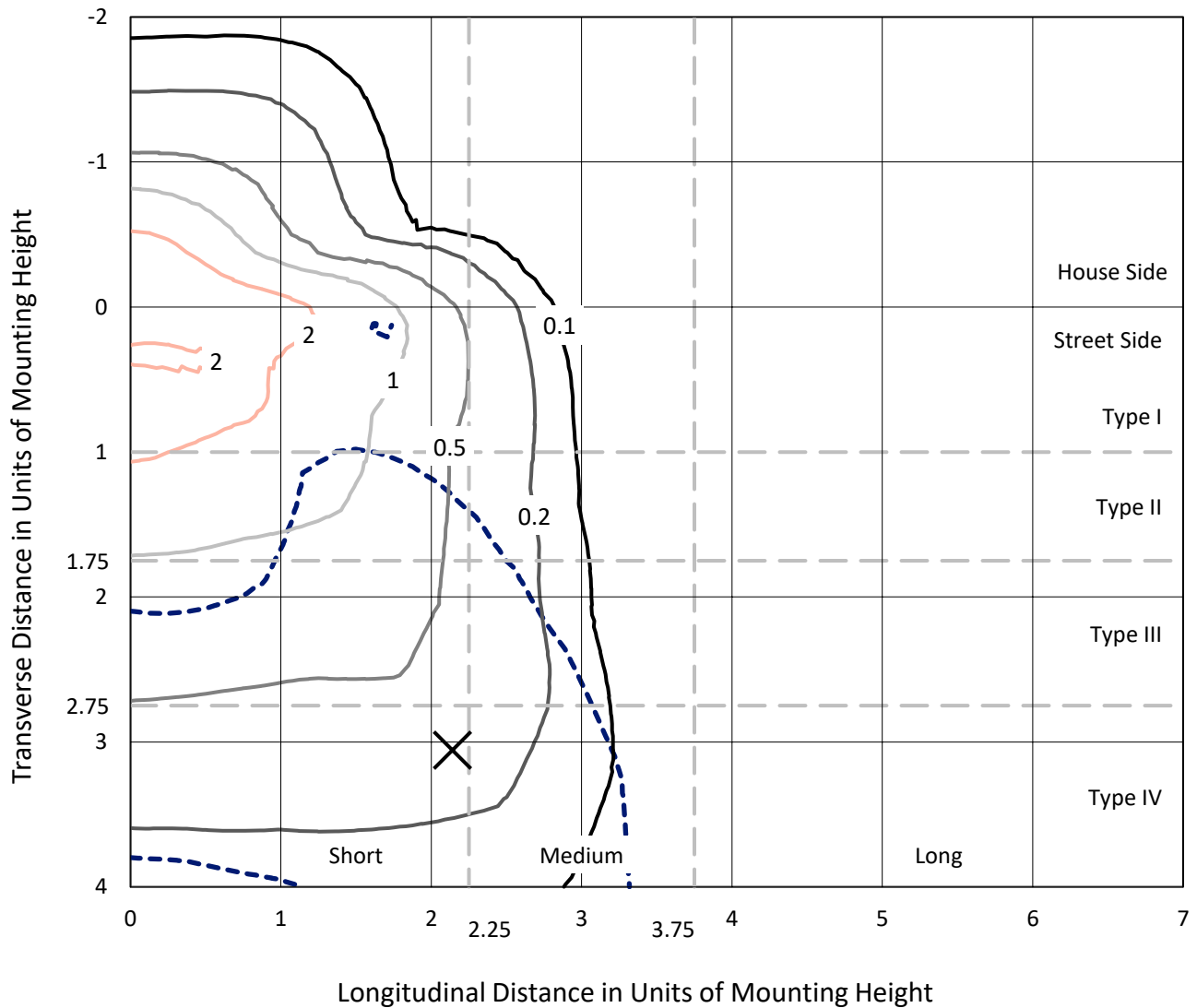
Lumens per Lamp: N/A  
Luminaire Lumens: 14575 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

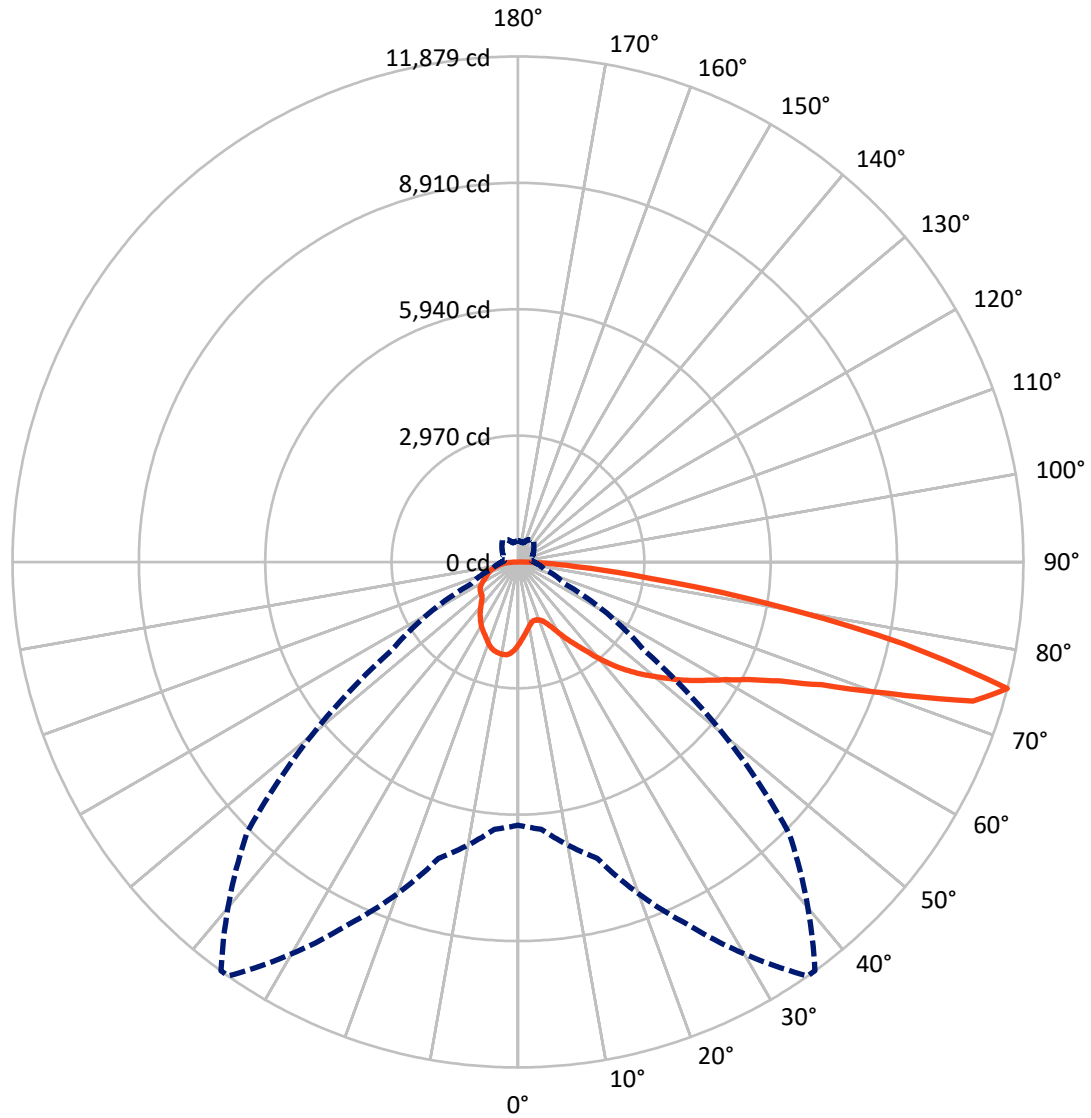
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3468.5	0.0	3468.5
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	11106.5	0.0	11106.5
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	14575.0	0.0	14575.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.9	1.3
10°-20°	530.4	3.6
20°-30°	890.7	6.1
30°-40°	1384.3	9.5
40°-50°	2054.6	14.1
50°-60°	2836.6	19.5
60°-70°	3441.4	23.6
70°-80°	2844.0	19.5
80°-90°	409.1	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°	14575.0	100.0
0°-180°	14575.0	100.0

**Coefficient of Utilization**



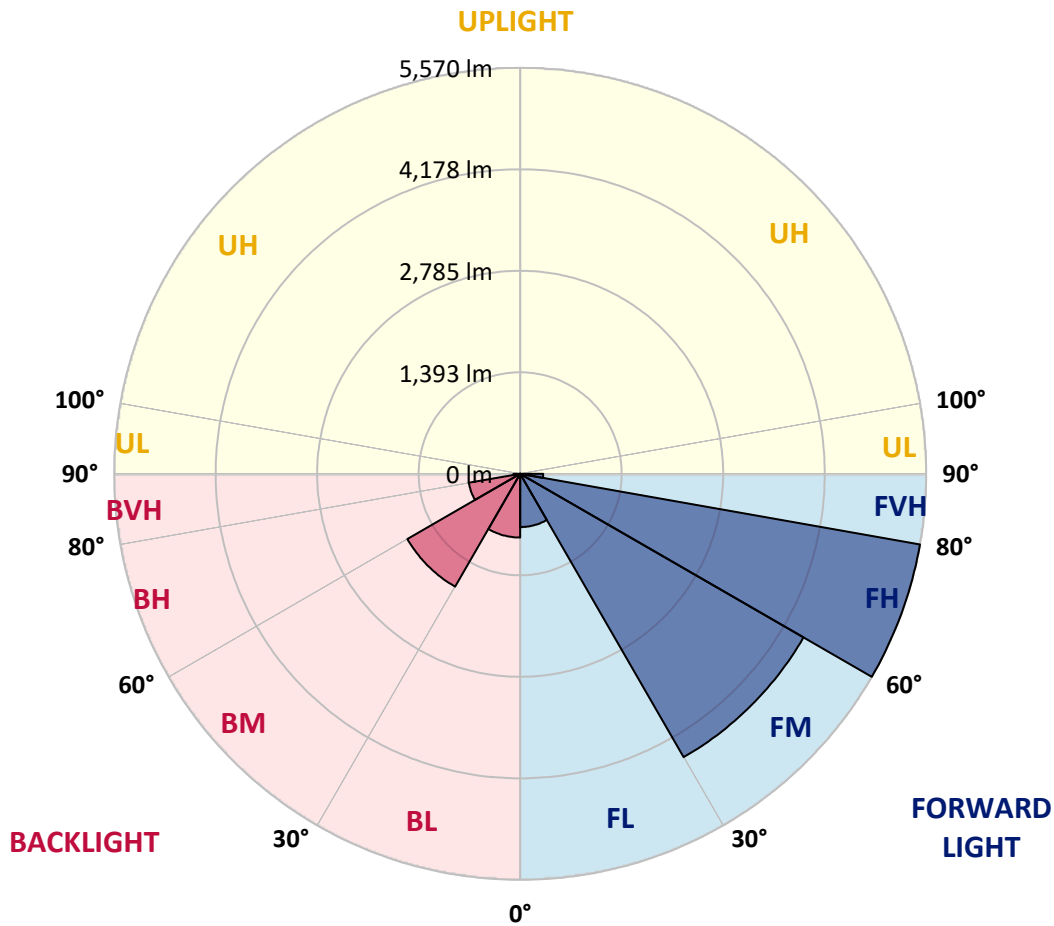
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	730.9	5.0			
FM (30°-60°)	4488.3	30.8			
FH (60°-80°)	5570.3	38.2			G3/7500
FVH (80°-90°)	317.0	2.2			G3/500
BL (0°-30°)	874.1	6.0	B2/1000		
BM (30°-60°)	1787.2	12.3	B2/2500		
BH (60°-80°)	715.1	4.9	B2/1000		G2/1000
BVH (80°-90°)	92.1	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°	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2
2.5°	1790.9	1802.0	1806.7	1804.3	1816.2	1814.6	1831.1	1851.6	1880.0	1907.5
5°	1653.1	1664.9	1675.1	1684.6	1707.4	1714.5	1740.5	1779.9	1831.9	1884.7
7.5°	1524.6	1534.9	1550.6	1568.0	1606.6	1613.7	1657.0	1718.4	1790.9	1868.2
10°	1419.8	1430.1	1446.6	1466.3	1514.4	1523.0	1578.2	1660.1	1754.7	1852.4
12.5°	1374.9	1378.1	1387.5	1407.2	1449.0	1454.5	1515.2	1608.9	1719.2	1840.6
15°	1372.6	1378.9	1379.6	1389.9	1424.6	1426.9	1482.9	1575.8	1697.2	1838.2
17.5°	1396.2	1400.9	1393.8	1400.1	1429.3	1433.2	1477.3	1560.1	1690.1	1848.5
20°	1459.2	1463.2	1441.9	1433.2	1454.5	1457.6	1501.0	1570.3	1697.2	1869.7
22.5°	1593.2	1595.5	1543.5	1508.1	1509.7	1511.2	1549.0	1612.1	1724.8	1908.3
25°	1802.0	1800.4	1717.7	1649.1	1609.7	1601.0	1626.3	1679.8	1771.2	1959.6
27.5°	2046.2	2034.4	1951.7	1849.2	1763.4	1750.8	1745.2	1768.1	1837.4	2027.3
30°	2322.0	2311.0	2221.9	2088.0	1969.0	1948.5	1896.5	1884.7	1935.9	2119.5
32.5°	2624.6	2617.5	2511.1	2348.8	2189.6	2166.0	2078.5	2047.0	2087.2	2259.0
35°	2878.3	2872.0	2783.7	2616.7	2422.1	2392.9	2303.9	2268.4	2288.9	2437.8
37.5°	3107.5	3104.4	3028.8	2897.2	2696.3	2660.8	2560.7	2548.9	2545.0	2673.4
40°	3320.3	3312.4	3233.6	3164.3	3015.4	2983.1	2894.8	2884.6	2854.6	2963.4
42.5°	3555.9	3535.4	3421.1	3388.8	3348.7	3321.9	3269.1	3270.6	3204.5	3290.3
45°	3748.1	3736.3	3618.9	3600.0	3643.3	3632.3	3678.0	3689.8	3561.4	3633.1
47.5°	3954.6	3943.5	3844.3	3830.9	3948.3	3951.4	4112.9	4116.9	3909.6	3989.2
50°	4209.1	4193.3	4094.8	4111.4	4242.9	4254.8	4550.2	4523.4	4230.3	4350.9
52.5°	4376.9	4386.3	4365.1	4391.9	4571.5	4582.5	4980.4	4911.9	4547.9	4707.8
55°	4500.6	4519.5	4585.7	4647.1	4918.2	4929.2	5386.2	5281.4	4811.0	5038.7
57.5°	4659.7	4633.0	4756.7	4876.4	5247.5	5276.7	5781.0	5637.6	5044.2	5324.0
60°	4888.2	4869.3	4965.5	5142.7	5616.3	5662.8	6198.5	5958.2	5215.2	5550.1
62.5°	5351.5	5304.3	5319.2	5476.0	6081.1	6142.6	6669.7	6237.9	5300.3	5638.3
65°	6044.1	5963.0	5887.3	5996.1	6735.9	6796.6	7201.6	6457.8	5268.8	5467.4
67.5°	6916.3	6836.0	6743.0	6845.4	7700.3	7748.4	7857.9	6581.5	5020.6	4808.7
70°	7635.7	7605.8	7716.9	8138.4	9240.7	9242.3	8699.4	6479.0	4340.6	3409.3
72.5°	7540.4	7522.3	8107.7	9410.9	11182.1	11140.4	9496.0	5703.7	2924.0	1538.0
75°	6185.9	6303.3	7210.2	9388.0	11879.4	11873.9	9008.3	3626.0	1209.5	637.4
77.5°	3317.1	3503.1	4681.0	6931.3	9273.8	9413.3	6333.3	1268.5	519.2	408.1
80°	1081.8	1244.1	1865.8	3529.1	6026.0	6000.0	2714.4	498.0	355.4	289.2
82.5°	459.4	478.3	833.6	1666.4	3092.6	3044.5	864.3	286.0	249.8	197.8
85°	179.6	200.9	368.0	770.6	1339.5	1310.3	312.0	141.8	159.9	129.2
87.5°	59.1	71.7	131.6	264.0	416.8	401.8	76.4	48.9	69.3	59.1
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°
1942.2	0°	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2	1942.2
1947.7	2.5°	1958.8	1971.4	1986.3	2008.4	2027.3	2043.1	2059.6	2069.9	2073.8	2085.6
1950.9	5°	1972.9	2000.5	2037.6	2073.8	2109.3	2130.5	2149.4	2158.9	2167.6	2173.9
1959.6	7.5°	1996.6	2032.0	2090.3	2137.6	2167.6	2184.9	2197.5	2194.4	2197.5	2199.1
1969.0	10°	2017.1	2066.7	2136.0	2181.0	2203.8	2204.6	2201.4	2190.4	2184.9	2185.7
1983.2	12.5°	2041.5	2096.6	2171.5	2209.3	2215.6	2198.3	2184.9	2166.0	2158.9	2155.7
2004.5	15°	2074.6	2137.6	2210.1	2224.3	2208.5	2186.5	2163.6	2132.9	2117.1	2104.5
2040.7	17.5°	2114.8	2184.1	2240.1	2229.8	2195.9	2159.7	2122.7	2076.2	2043.9	2030.5
2090.3	20°	2170.7	2233.0	2262.9	2218.0	2166.8	2111.6	2048.6	1991.9	1961.9	1948.5
2153.4	22.5°	2238.5	2298.4	2285.0	2197.5	2125.0	2036.8	1958.0	1916.2	1901.2	1891.8
2234.5	25°	2319.6	2370.8	2300.7	2167.6	2056.5	1937.5	1876.8	1863.4	1856.3	1849.2
2333.8	27.5°	2425.2	2452.8	2312.5	2123.4	1949.3	1831.9	1809.8	1812.2	1809.8	1798.0
2471.7	30°	2564.7	2559.2	2323.6	2051.7	1826.4	1736.6	1738.1	1748.4	1750.0	1742.1
2664.0	32.5°	2748.3	2692.3	2329.1	1958.8	1709.0	1653.1	1654.6	1665.7	1673.5	1660.1
2915.3	35°	2970.5	2847.5	2320.4	1842.2	1618.4	1573.5	1561.7	1564.8	1567.2	1554.6
3220.2	37.5°	3229.7	3021.7	2281.8	1712.9	1543.5	1495.5	1470.3	1449.0	1436.4	1424.6
3565.3	40°	3514.1	3211.6	2210.9	1586.9	1460.0	1412.7	1374.9	1334.7	1292.2	1276.4
3930.9	42.5°	3811.9	3407.0	2125.0	1466.3	1363.9	1325.3	1285.1	1226.8	1163.0	1130.7
4310.7	45°	4120.8	3607.1	2040.7	1347.3	1265.4	1248.8	1202.4	1132.2	1062.9	1021.9
4691.3	47.5°	4423.4	3796.2	1917.0	1227.6	1173.2	1191.3	1155.1	1090.5	1013.3	948.7
5068.7	50°	4712.5	3973.5	1714.5	1106.2	1098.4	1174.0	1139.3	1046.4	958.1	875.4
5439.0	52.5°	4999.3	4116.9	1455.3	995.9	1058.2	1169.3	1118.8	1016.4	908.5	821.8
5787.3	55°	5242.8	4190.9	1205.5	901.4	999.9	1129.1	1094.4	981.0	838.3	746.2
6026.0	57.5°	5381.5	4131.1	997.5	808.4	919.5	1062.9	1052.7	905.3	754.8	683.9
6072.5	60°	5321.6	3888.4	827.3	727.2	843.1	991.2	980.2	830.5	691.0	624.0
5823.5	62.5°	4991.5	3425.9	692.6	656.3	773.7	917.9	907.7	772.9	642.2	577.5
5162.4	65°	4326.5	2786.9	587.8	597.2	703.6	829.7	844.6	724.9	603.5	540.5
3994.0	67.5°	3299.8	2018.6	505.8	546.0	635.1	743.0	786.3	690.2	571.2	511.4
2311.0	70°	1880.8	1146.4	436.5	496.4	574.4	662.6	741.4	662.6	536.6	486.9
865.9	72.5°	713.1	526.3	377.4	446.7	516.1	594.9	691.8	619.3	496.4	459.4
447.5	75°	380.6	320.7	317.5	388.4	449.1	528.7	629.5	576.8	466.4	485.4
309.7	77.5°	259.2	226.9	265.5	332.5	375.8	455.4	563.4	512.1	404.2	402.6
214.3	80°	179.6	160.7	215.9	267.9	290.7	382.9	491.7	439.7	329.3	307.3
132.4	82.5°	107.9	104.8	161.5	200.1	205.6	295.5	407.4	368.7	269.5	234.8
78.8	85°	59.1	62.2	103.2	117.4	119.8	206.4	319.1	285.2	207.2	174.1
28.4	87.5°	16.5	21.3	37.8	46.5	57.5	107.2	189.9	169.4	104.0	72.5
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>
1942.2
2084.8
2175.4
2201.4
2187.3
2154.2
2108.5
2031.3
1946.9
1893.4
1849.2
1800.4
1746.0
1666.4
1563.2
1432.4
1283.5
1134.6
1018.8
941.6
868.3
812.3
738.3
674.5
614.6
567.3
530.3
501.9
480.6
453.1
<i>501.1</i>
371.1
293.9
236.4
175.7
72.5
0.0

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