

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: P939779

Luminaire Tested: **GALN-SB2C-740-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939779  
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-SB2C-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

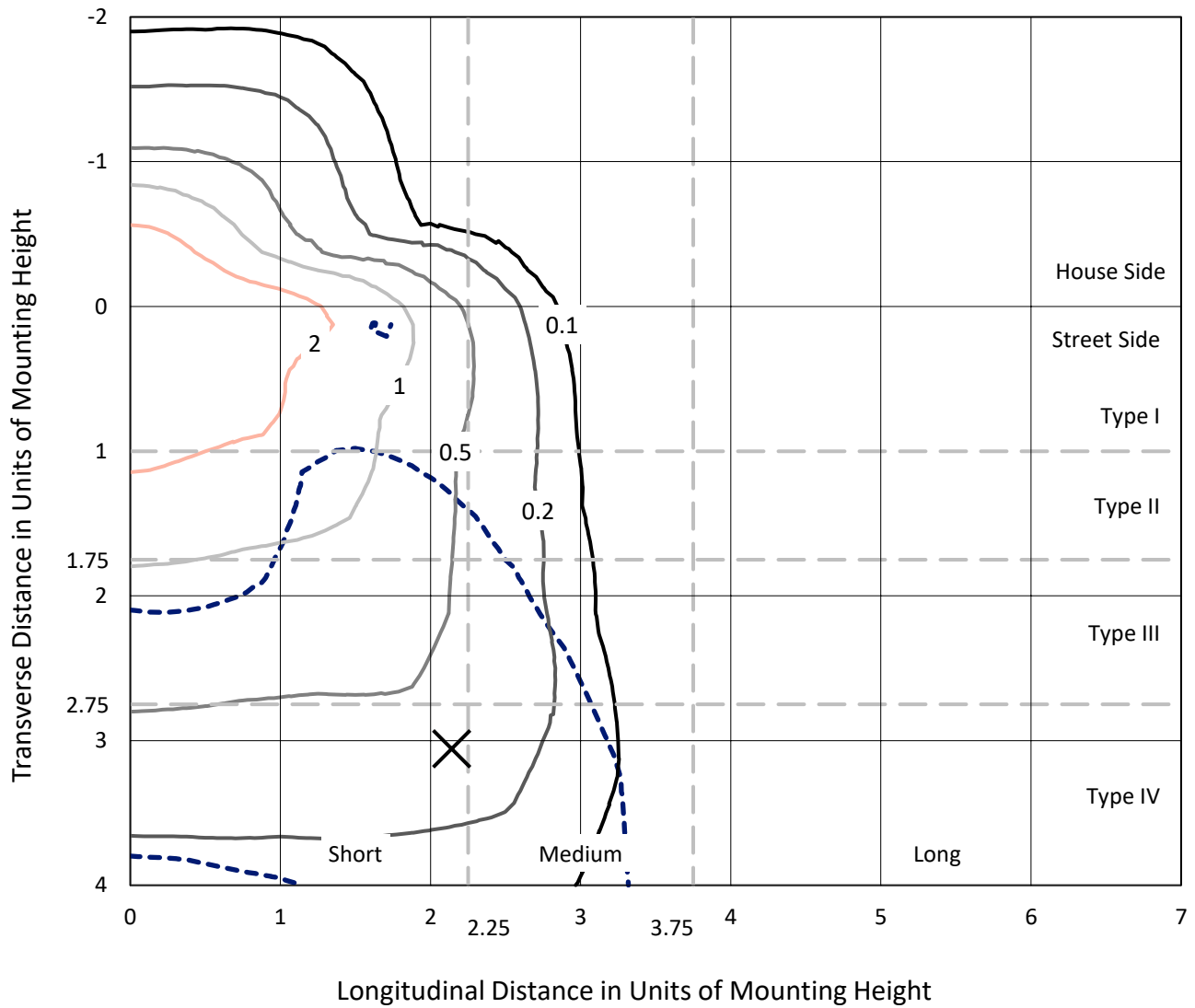
Lumens per Lamp: N/A  
Luminaire Lumens: 15661 lumens  
Efficiency: N/A  
Efficacy: 155.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

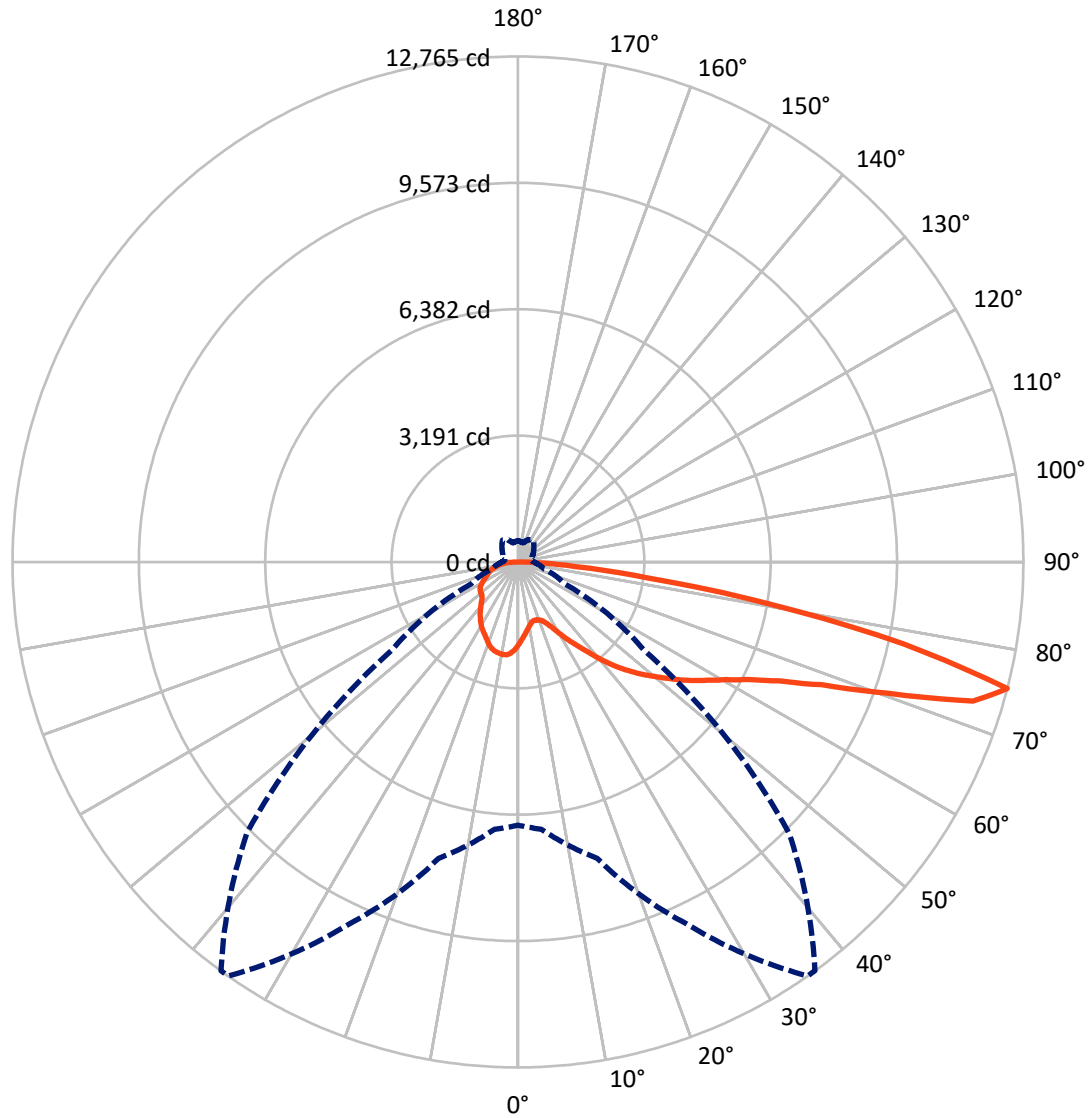
× Max cd  
 - - - 1/2 Max cd



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



— 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	3726.9	0.0	3726.9
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	11934.1	0.0	11934.1
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	15661.0	0.0	15661.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.6	1.3
10°-20°	569.9	3.6
20°-30°	957.1	6.1
30°-40°	1487.4	9.5
40°-50°	2207.7	14.1
50°-60°	3047.9	19.5
60°-70°	3697.8	23.6
70°-80°	3056.0	19.5
80°-90°	439.5	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°	15661.0	100.0
0°-180°	15661.0	100.0

**Coefficient of Utilization**



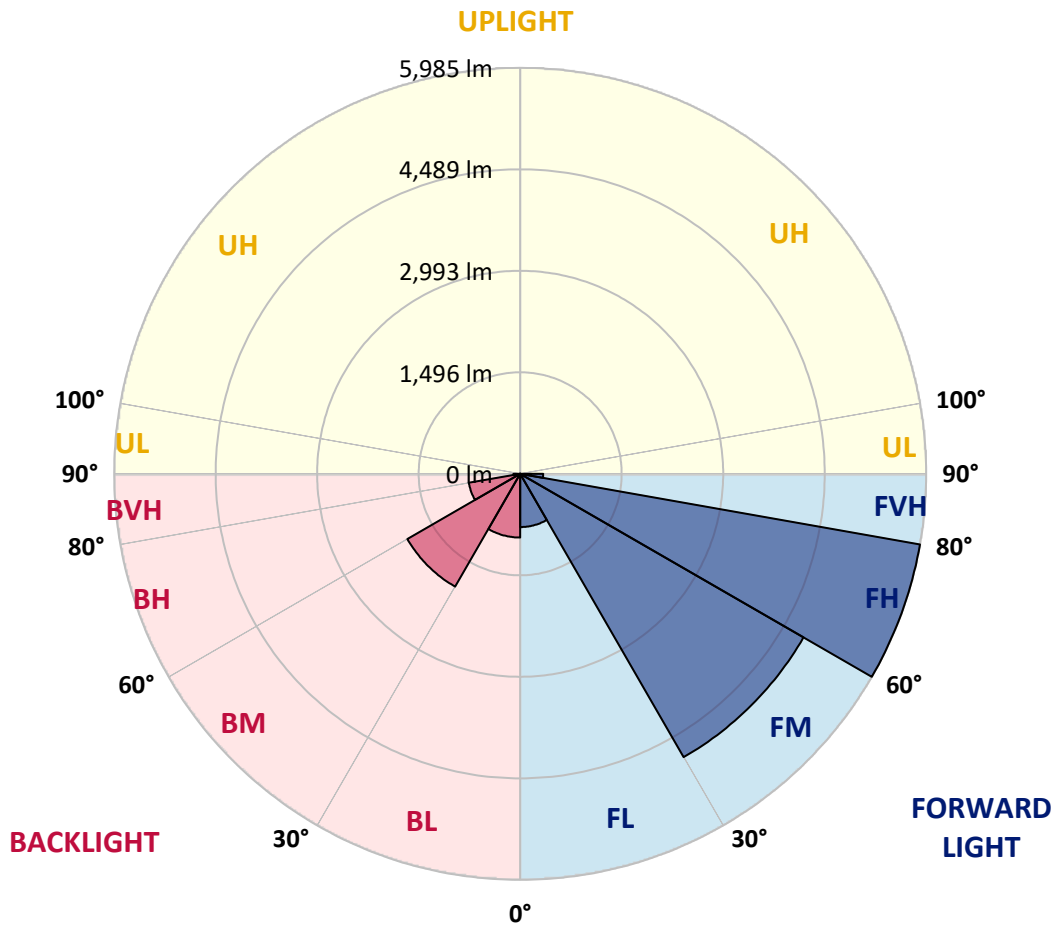
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	785.4	5.0			
FM (30°-60°)	4822.7	30.8			
FH (60°-80°)	5985.4	38.2			G3/7500
FVH (80°-90°)	340.6	2.2			G3/500
BL (0°-30°)	939.2	6.0	B2/1000		
BM (30°-60°)	1920.3	12.3	B2/2500		
BH (60°-80°)	768.4	4.9	B2/1000		G2/1000
BVH (80°-90°)	99.0	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°	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9
2.5°	1924.4	1936.2	1941.3	1938.8	1951.5	1949.8	1967.6	1989.6	2020.1	2049.7
5°	1776.2	1788.9	1799.9	1810.1	1834.6	1842.3	1870.2	1912.5	1968.4	2025.1
7.5°	1638.2	1649.2	1666.2	1684.8	1726.3	1733.9	1780.5	1846.5	1924.4	2007.4
10°	1525.6	1536.6	1554.4	1575.6	1627.2	1636.5	1695.8	1783.8	1885.4	1990.4
12.5°	1477.4	1480.7	1490.9	1512.1	1556.9	1562.9	1628.1	1728.8	1847.3	1977.7
15°	1474.8	1481.6	1482.4	1493.4	1530.7	1533.2	1593.4	1693.3	1823.6	1975.2
17.5°	1500.2	1505.3	1497.7	1504.5	1535.8	1540.0	1587.4	1676.3	1816.0	1986.2
20°	1568.0	1572.2	1549.3	1540.0	1562.9	1566.3	1612.8	1687.3	1823.6	2009.0
22.5°	1711.9	1714.4	1658.5	1620.4	1622.1	1623.8	1664.5	1732.2	1853.3	2050.5
25°	1936.2	1934.5	1845.6	1772.0	1729.7	1720.3	1747.4	1805.0	1903.2	2105.6
27.5°	2198.7	2186.0	2097.1	1987.0	1894.7	1881.2	1875.3	1899.8	1974.3	2178.4
30°	2495.0	2483.2	2387.5	2243.6	2115.7	2093.7	2037.8	2025.1	2080.2	2277.4
32.5°	2820.1	2812.5	2698.2	2523.8	2352.8	2327.4	2233.4	2199.5	2242.7	2427.3
35°	3092.7	3086.0	2991.1	2811.6	2602.5	2571.2	2475.5	2437.4	2459.4	2619.5
37.5°	3339.1	3335.7	3254.4	3113.0	2897.2	2859.1	2751.5	2738.8	2734.6	2872.6
40°	3567.7	3559.2	3474.6	3400.1	3240.0	3205.3	3110.5	3099.5	3067.3	3184.2
42.5°	3820.8	3798.8	3676.1	3641.3	3598.2	3569.4	3512.7	3514.3	3443.2	3535.5
45°	4027.4	4014.7	3888.6	3868.2	3914.8	3902.9	3952.1	3964.8	3826.8	3903.8
47.5°	4249.2	4237.4	4130.7	4116.3	4242.4	4245.8	4419.4	4423.6	4201.0	4286.5
50°	4522.7	4505.7	4399.9	4417.7	4559.1	4571.8	4889.3	4860.5	4545.5	4675.1
52.5°	4703.0	4713.2	4690.3	4719.1	4912.1	4924.0	5351.5	5277.9	4886.7	5058.6
55°	4835.9	4856.2	4927.4	4993.4	5284.6	5296.5	5787.5	5674.9	5169.5	5414.2
57.5°	5006.9	4978.2	5111.1	5239.8	5638.5	5669.9	6211.7	6057.6	5420.1	5720.7
60°	5252.5	5232.2	5335.4	5525.9	6034.8	6084.7	6660.4	6402.2	5603.8	5963.6
62.5°	5750.3	5699.5	5715.6	5884.1	6534.3	6600.3	7166.7	6702.7	5695.3	6058.5
65°	6494.5	6407.3	6326.0	6442.8	7237.8	7303.0	7738.2	6939.0	5661.4	5874.7
67.5°	7431.7	7345.3	7245.4	7355.5	8274.1	8325.7	8443.4	7071.9	5394.7	5167.0
70°	8204.7	8172.5	8291.9	8744.8	9929.2	9930.9	9347.6	6961.8	4664.1	3663.4
72.5°	8102.2	8082.7	8711.8	10112.1	12015.3	11970.5	10203.5	6128.7	3141.8	1652.6
75°	6646.9	6773.0	7747.5	10087.6	12764.6	12758.7	9679.5	3896.2	1299.6	684.9
77.5°	3564.3	3764.1	5029.8	7447.8	9964.8	10114.6	6805.2	1363.1	557.9	438.6
80°	1162.4	1336.8	2004.8	3792.0	6475.0	6447.1	2916.6	535.1	381.8	310.7
82.5°	493.6	513.9	895.7	1790.6	3323.0	3271.4	928.7	307.3	268.4	212.5
85°	193.0	215.9	395.4	828.0	1439.3	1407.9	335.3	152.4	171.9	138.8
87.5°	63.5	77.0	141.4	283.6	447.9	431.8	82.1	52.5	74.5	63.5
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°
2086.9	0°	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9
2092.9	2.5°	2104.7	2118.3	2134.3	2158.1	2178.4	2195.3	2213.1	2224.1	2228.3	2241.0
2096.2	5°	2120.0	2149.6	2189.4	2228.3	2266.4	2289.3	2309.6	2319.8	2329.1	2335.8
2105.6	7.5°	2145.4	2183.4	2246.1	2296.9	2329.1	2347.7	2361.2	2357.9	2361.2	2362.9
2115.7	10°	2167.4	2220.7	2295.2	2343.5	2368.0	2368.9	2365.5	2353.6	2347.7	2348.5
2131.0	12.5°	2193.6	2252.9	2333.3	2373.9	2380.7	2362.1	2347.7	2327.4	2319.8	2316.4
2153.8	15°	2229.2	2296.9	2374.8	2390.0	2373.1	2349.4	2324.8	2291.8	2274.9	2261.3
2192.8	17.5°	2272.3	2346.8	2407.0	2396.0	2359.5	2320.6	2280.8	2230.9	2196.1	2181.8
2246.1	20°	2332.5	2399.3	2431.5	2383.3	2328.2	2269.0	2201.2	2140.3	2108.1	2093.7
2313.8	22.5°	2405.3	2469.6	2455.2	2361.2	2283.4	2188.5	2103.9	2059.0	2042.9	2032.8
2401.0	25°	2492.5	2547.5	2472.1	2329.1	2209.7	2081.9	2016.7	2002.3	1994.7	1987.0
2507.7	27.5°	2605.9	2635.5	2484.8	2281.7	2094.6	1968.4	1944.7	1947.2	1944.7	1932.0
2655.9	30°	2755.8	2749.8	2496.7	2204.6	1962.5	1866.0	1867.7	1878.7	1880.4	1871.9
2862.4	32.5°	2953.0	2892.9	2502.6	2104.7	1836.3	1776.2	1777.9	1789.8	1798.2	1783.8
3132.5	35°	3191.8	3059.7	2493.3	1979.4	1739.0	1690.7	1678.0	1681.4	1683.9	1670.4
3460.2	37.5°	3470.3	3246.8	2451.8	1840.6	1658.5	1606.9	1579.8	1556.9	1543.4	1530.7
3831.0	40°	3776.0	3450.8	2375.6	1705.1	1568.8	1518.0	1477.4	1434.2	1388.5	1371.5
4223.8	42.5°	4096.0	3660.8	2283.4	1575.6	1465.5	1424.0	1380.8	1318.2	1249.6	1214.9
4631.9	45°	4427.9	3875.9	2192.8	1447.7	1359.7	1341.9	1292.0	1216.6	1142.1	1098.1
5040.8	47.5°	4753.0	4079.0	2059.8	1319.0	1260.6	1280.1	1241.2	1171.7	1088.8	1019.3
5446.3	50°	5063.7	4269.5	1842.3	1188.7	1180.2	1261.5	1224.2	1124.3	1029.5	940.6
5844.3	52.5°	5371.8	4423.6	1563.7	1070.1	1137.0	1256.4	1202.2	1092.1	976.2	883.0
6218.5	55°	5633.5	4503.2	1295.3	968.5	1074.4	1213.2	1176.0	1054.0	900.8	801.8
6475.0	57.5°	5782.5	4438.9	1071.8	868.6	988.0	1142.1	1131.1	972.8	811.1	734.9
6525.0	60°	5718.1	4178.1	889.0	781.4	905.9	1065.1	1053.2	892.3	742.5	670.5
6257.4	62.5°	5363.4	3681.1	744.2	705.2	831.4	986.3	975.3	830.5	690.0	620.6
5547.1	65°	4648.8	2994.5	631.6	641.7	756.0	891.5	907.6	778.9	648.5	580.8
4291.5	67.5°	3545.7	2169.1	543.5	586.7	682.4	798.4	844.9	741.6	613.8	549.5
2483.2	70°	2020.9	1231.8	469.0	533.4	617.2	712.0	796.7	712.0	576.6	523.2
930.4	72.5°	766.2	565.5	405.5	480.0	554.5	639.2	743.3	665.4	533.4	493.6
480.9	75°	408.9	344.6	341.2	417.4	482.6	568.1	676.5	619.7	501.2	521.5
332.7	77.5°	278.5	243.8	285.3	357.3	403.8	489.4	605.3	550.3	434.3	432.6
230.3	80°	193.0	172.7	232.0	287.9	312.4	411.5	528.3	472.4	353.9	330.2
142.2	82.5°	116.0	112.6	173.6	215.0	221.0	317.5	437.7	396.2	289.5	252.3
84.7	85°	63.5	66.9	110.9	126.1	128.7	221.8	342.9	306.5	222.7	187.1
30.5	87.5°	17.8	22.9	40.6	50.0	61.8	115.1	204.0	182.0	111.8	77.9
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>
2086.9
2240.2
2337.5
2365.5
2350.2
2314.7
2265.6
2182.6
2092.0
2034.4
1987.0
1934.5
1876.1
1790.6
1679.7
1539.2
1379.2
1219.1
1094.7
1011.7
933.0
872.9
793.3
724.7
660.4
609.6
569.8
539.3
516.4
486.8
538.5
398.8
315.8
254.0
188.8
77.9
0.0

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