

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: P940798

Luminaire Tested: **GALN-SB4A-740-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4A-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

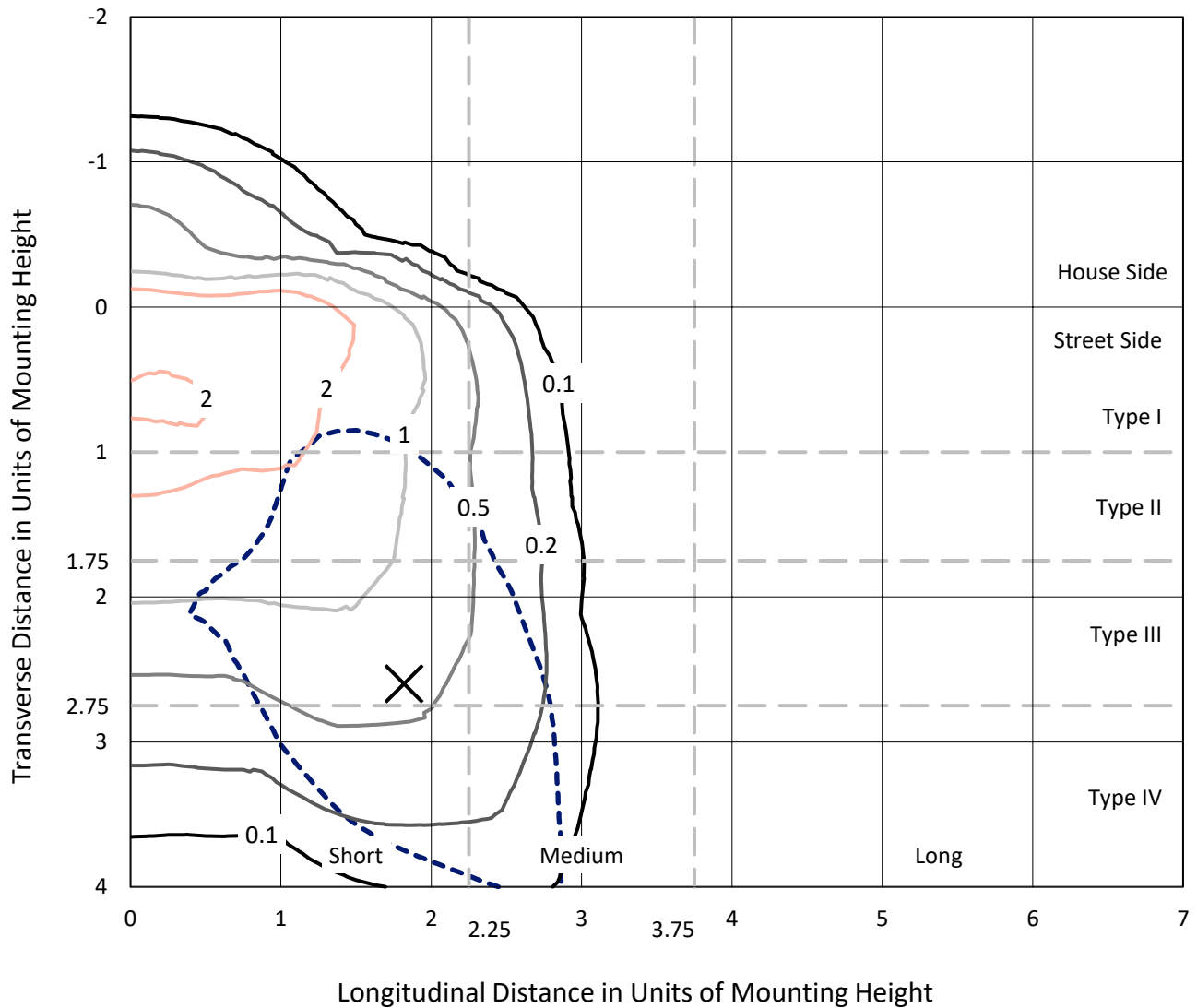
Lumens per Lamp: N/A  
Luminaire Lumens: 14401 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

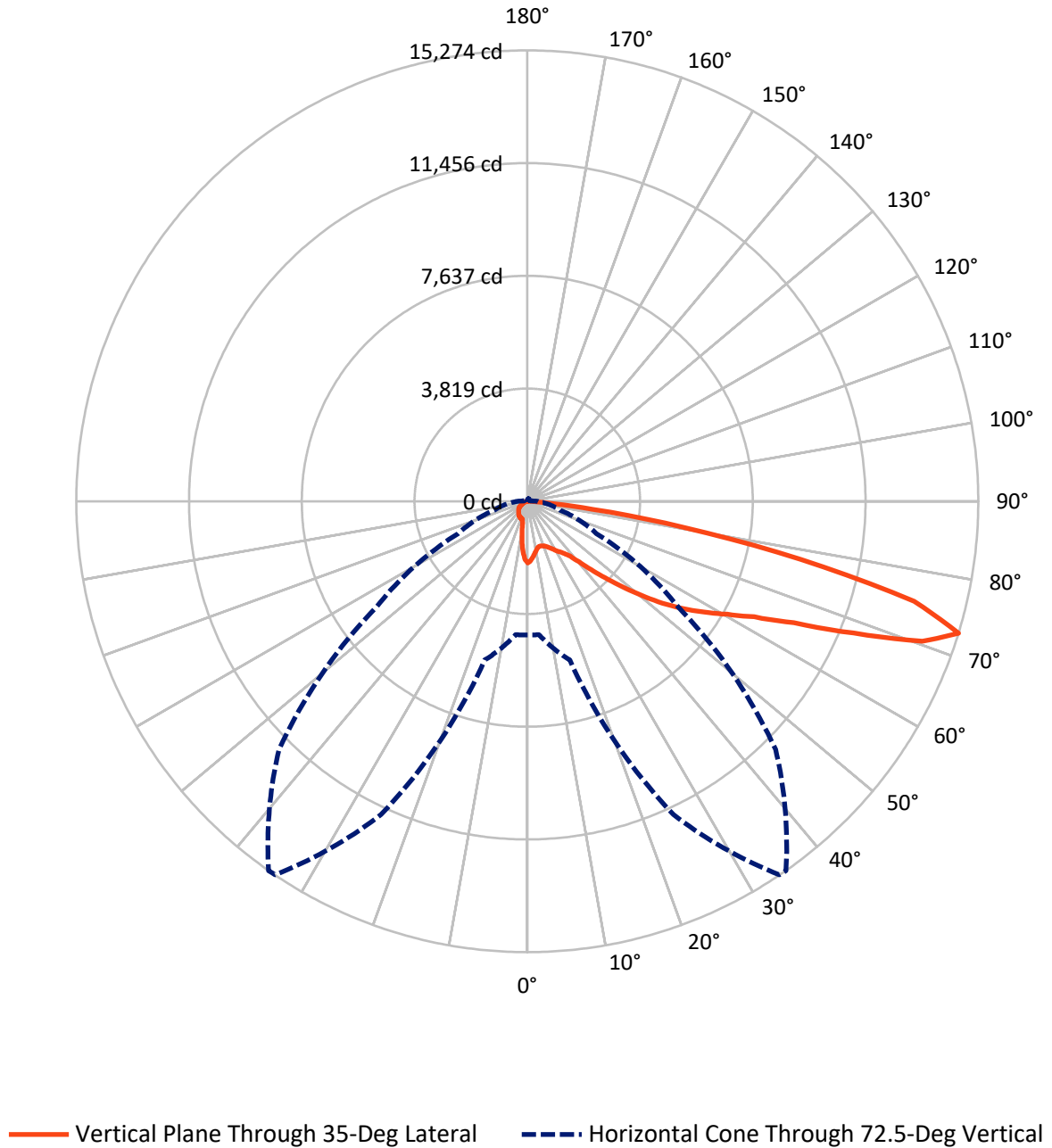
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1620.8	0.0	1620.8
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	12780.2	0.0	12780.2
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	14401.0	0.0	14401.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.5	1.2
10°-20°	401.2	2.8
20°-30°	651.8	4.5
30°-40°	1087.5	7.6
40°-50°	2057.6	14.3
50°-60°	3269.5	22.7
60°-70°	4044.6	28.1
70°-80°	2514.1	17.5
80°-90°	203.2	1.4
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°	14401.0	100.0
0°-180°	14401.0	100.0

**Coefficient of Utilization**



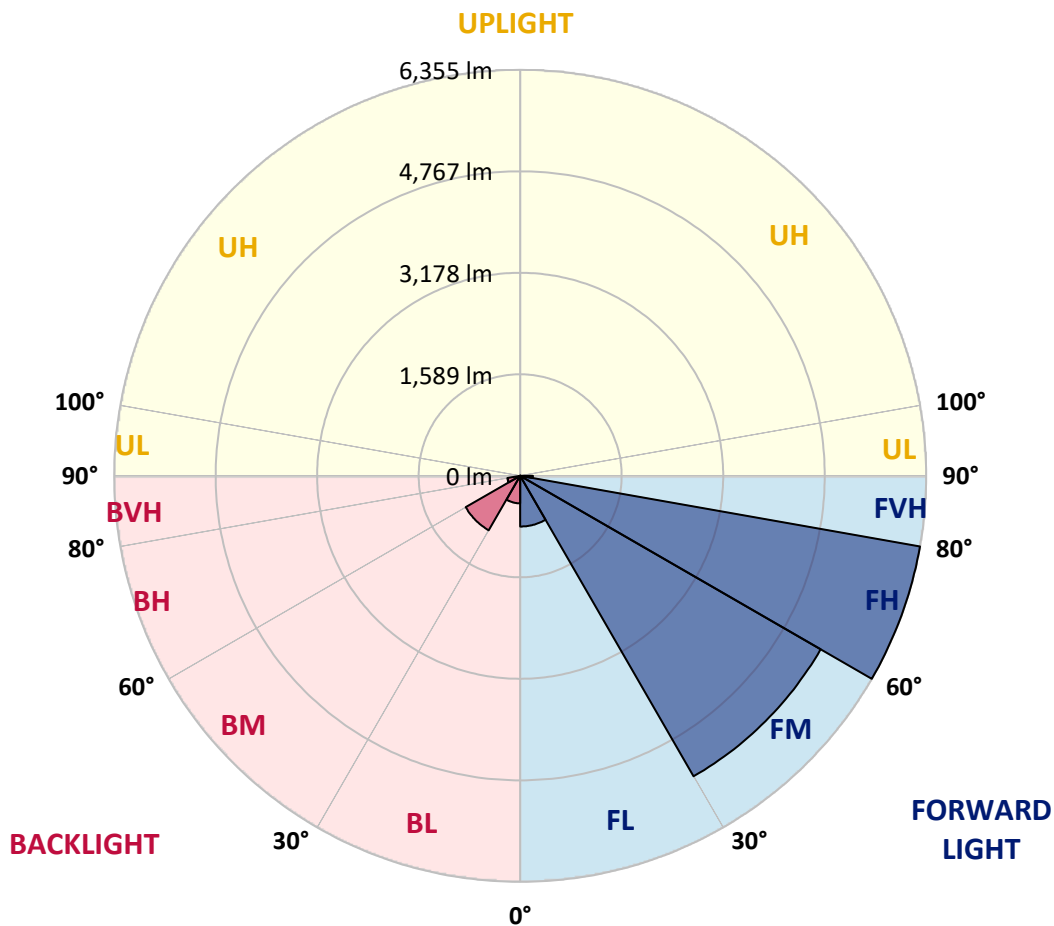
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	793.9	5.5			
FM (30°-60°)	5430.6	37.7			
FH (60°-80°)	6355.3	44.1			G3/7500
FVH (80°-90°)	200.4	1.4			G2/225
BL (0°-30°)	430.7	3.0	B1/500		
BM (30°-60°)	984.0	6.8	B1/1000		
BH (60°-80°)	203.4	1.4	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2
2.5°	1994.3	2011.2	2014.4	2019.7	2019.7	2026.0	2036.5	2051.3	2075.6	2088.2
5°	1838.2	1850.8	1866.7	1879.3	1903.6	1906.7	1947.9	1988.0	2043.9	2086.1
7.5°	1680.9	1695.7	1716.8	1747.4	1779.1	1788.6	1850.8	1918.4	2007.0	2086.1
10°	1570.1	1571.2	1590.2	1620.8	1671.4	1683.0	1759.0	1855.0	1965.8	2073.5
12.5°	1507.9	1515.3	1523.7	1546.9	1595.5	1602.9	1684.1	1797.0	1924.7	2066.1
15°	1507.9	1513.2	1518.4	1530.0	1569.1	1575.4	1647.2	1760.1	1903.6	2069.2
17.5°	1523.7	1532.2	1527.9	1541.6	1582.8	1587.0	1650.3	1749.5	1902.5	2089.3
20°	1561.7	1568.0	1559.6	1568.0	1609.2	1617.6	1683.0	1769.6	1920.5	2124.1
22.5°	1621.8	1625.0	1605.0	1611.3	1653.5	1664.1	1740.0	1826.6	1963.7	2180.0
25°	1697.8	1704.1	1673.5	1680.9	1721.0	1733.7	1821.3	1912.0	2032.3	2257.1
27.5°	1785.4	1788.6	1762.2	1761.1	1812.8	1830.8	1919.4	2017.5	2124.1	2354.2
30°	1885.6	1895.1	1869.8	1865.6	1931.0	1945.8	2033.4	2147.3	2259.2	2499.8
32.5°	1964.8	1972.2	1957.4	1968.0	2034.4	2046.0	2171.6	2330.9	2471.3	2706.6
35°	2078.7	2083.0	2049.2	2068.2	2144.2	2173.7	2360.5	2588.4	2738.2	2966.2
37.5°	2491.3	2491.3	2347.8	2253.9	2326.7	2353.1	2619.0	2912.4	3067.5	3314.4
40°	3062.2	3052.7	2842.7	2650.7	2641.2	2692.9	2987.3	3320.7	3492.7	3732.2
42.5°	3671.0	3656.3	3370.3	3180.4	3148.7	3166.7	3412.5	3824.0	3999.2	4241.9
45°	4211.3	4207.1	3945.4	3690.0	3633.1	3690.0	3943.3	4412.9	4538.4	4793.8
47.5°	4664.0	4664.0	4473.0	4306.3	4276.7	4310.5	4661.9	5066.0	5054.4	5381.5
50°	5185.3	5181.0	4999.5	4927.8	4958.4	5005.9	5489.2	5754.0	5588.3	5958.7
52.5°	5550.4	5575.7	5513.4	5501.8	5658.0	5740.3	6329.1	6427.2	6066.4	6506.4
55°	5839.5	5869.0	5940.8	6022.0	6322.8	6430.4	7142.7	7065.6	6466.3	6981.2
57.5°	6248.9	6206.7	6317.5	6477.9	6964.3	7094.1	7930.9	7668.1	6788.1	7366.4
60°	6745.9	6752.2	6771.2	6973.8	7604.8	7771.6	8707.5	8238.0	6994.9	7602.7
62.5°	7343.1	7352.6	7391.7	7703.0	8464.8	8622.0	9534.8	8704.4	7089.9	7536.2
65°	7302.0	7342.1	7777.9	8842.6	9772.2	9927.3	10500.3	9031.5	6946.4	6928.5
67.5°	6652.0	6717.4	7446.6	10203.8	11743.3	11916.4	11667.4	9095.8	6327.0	5387.9
70°	5799.4	5822.6	6699.5	11427.8	14025.7	14200.9	12712.0	8387.8	4801.2	3005.2
72.5°	4528.9	4534.2	5563.0	11711.7	15264.5	15274.0	11892.1	6226.7	2582.1	1154.4
75°	3235.2	3203.6	3725.9	9497.9	13429.5	13537.2	8915.4	2920.8	986.6	545.5
77.5°	1734.8	1769.6	2108.3	5632.7	9277.3	9460.9	4864.5	842.1	502.3	371.4
80°	536.0	565.6	864.2	2578.9	5254.9	5365.7	1803.3	374.6	350.3	264.9
82.5°	168.8	175.2	403.1	1083.7	2181.1	2231.8	522.3	212.1	239.5	175.2
85°	48.5	49.6	179.4	404.1	539.2	549.8	146.7	82.3	137.2	108.7
87.5°	5.3	16.9	67.5	67.5	47.5	46.4	15.8	17.9	39.0	13.7
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°
2087.2	0°	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2
2096.7	2.5°	2091.4	2092.5	2078.7	2055.5	2030.2	2009.1	1982.7	1961.6	1946.8	1942.6
2115.7	5°	2106.2	2098.8	2059.8	1989.1	1904.6	1831.8	1750.6	1686.2	1644.0	1626.1
2135.7	7.5°	2128.3	2107.2	2021.8	1882.5	1721.0	1577.5	1431.9	1319.0	1247.2	1211.4
2154.7	10°	2147.3	2105.1	1958.5	1728.4	1481.5	1264.1	1067.9	931.7	855.8	819.9
2176.9	12.5°	2165.3	2104.1	1876.1	1545.9	1211.4	945.5	762.9	695.4	674.3	666.9
2212.8	15°	2199.0	2107.2	1772.7	1336.9	942.3	714.4	647.9	646.8	651.1	648.9
2267.6	17.5°	2245.5	2110.4	1655.6	1115.3	727.0	630.0	626.8	636.3	642.6	639.5
2336.2	20°	2305.6	2123.1	1531.1	895.9	624.7	608.9	616.2	624.7	630.0	624.7
2428.0	22.5°	2390.0	2145.2	1395.0	719.6	592.0	596.2	602.5	612.0	617.3	609.9
2545.1	25°	2493.4	2180.0	1261.0	625.7	576.1	581.4	590.9	601.5	607.8	600.4
2692.9	27.5°	2627.5	2236.0	1137.5	604.6	560.3	563.5	577.2	593.0	601.5	592.0
2902.9	30°	2821.6	2327.8	1030.9	614.1	550.8	543.4	562.4	584.6	594.1	585.6
3188.8	32.5°	3079.1	2457.6	965.5	628.9	546.6	520.2	538.2	566.6	582.5	577.2
3562.4	35°	3416.7	2654.9	940.2	645.8	543.4	495.9	508.6	539.2	566.6	571.9
4033.0	37.5°	3826.2	2929.2	947.6	653.2	533.9	475.9	482.2	508.6	544.5	561.4
4562.7	40°	4291.5	3249.0	989.8	645.8	523.4	459.0	460.1	480.1	511.8	537.1
5132.5	42.5°	4771.6	3622.5	1067.9	618.3	513.9	444.2	441.1	454.8	475.9	493.8
5701.3	45°	5228.5	4006.6	1144.9	580.4	502.3	429.5	422.1	427.4	431.6	439.0
6255.2	47.5°	5627.4	4276.7	1122.7	545.5	486.4	412.6	399.9	397.8	385.1	384.1
6750.1	50°	5902.8	4335.8	997.2	510.7	463.2	393.6	373.5	360.9	338.7	328.2
7120.5	52.5°	5990.4	4102.6	814.6	475.9	425.2	368.3	339.8	319.7	292.3	282.8
7333.6	55°	5874.3	3645.7	651.1	433.7	372.5	334.5	302.8	276.5	254.3	242.7
7356.9	57.5°	5590.5	3064.3	514.9	384.1	316.6	296.5	264.9	238.5	219.5	207.9
7099.4	60°	5119.8	2433.3	407.3	325.0	270.1	255.4	222.6	205.8	188.9	175.2
6434.6	62.5°	4405.5	1736.9	319.7	257.5	225.8	208.9	189.9	177.3	157.2	138.2
5239.1	65°	3437.8	1062.6	246.9	188.9	181.5	173.1	161.4	149.8	125.6	106.6
3417.8	67.5°	2168.4	503.3	176.2	142.5	143.5	139.3	134.0	124.5	106.6	89.7
1531.1	70°	955.0	243.8	116.1	108.7	106.6	106.6	110.8	107.6	90.7	74.9
531.8	72.5°	325.0	130.8	86.5	82.3	77.0	76.0	92.9	89.7	72.8	58.0
264.9	75°	169.9	87.6	63.3	59.1	46.4	55.9	73.9	69.6	51.7	38.0
175.2	77.5°	110.8	62.3	43.3	38.0	26.4	36.9	54.9	48.5	30.6	19.0
115.0	80°	69.6	41.2	25.3	17.9	12.7	20.0	29.5	21.1	11.6	4.2
67.5	82.5°	36.9	21.1	9.5	6.3	5.3	6.3	7.4	5.3	2.1	0.0
34.8	85°	14.8	7.4	3.2	2.1	1.1	0.0	2.1	1.1	0.0	0.0
6.3	87.5°	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

180°
2087.2
1950.0
1632.4
1216.6
820.9
664.8
647.9
638.4
623.6
608.9
599.4
592.0
584.6
577.2
571.9
565.6
545.5
501.2
443.2
383.0
329.2
281.7
242.7
205.8
172.0
135.1
103.4
87.6
71.8
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