

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: P950095

Luminaire Tested: **GALN-SB4C-927-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950095  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-927-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

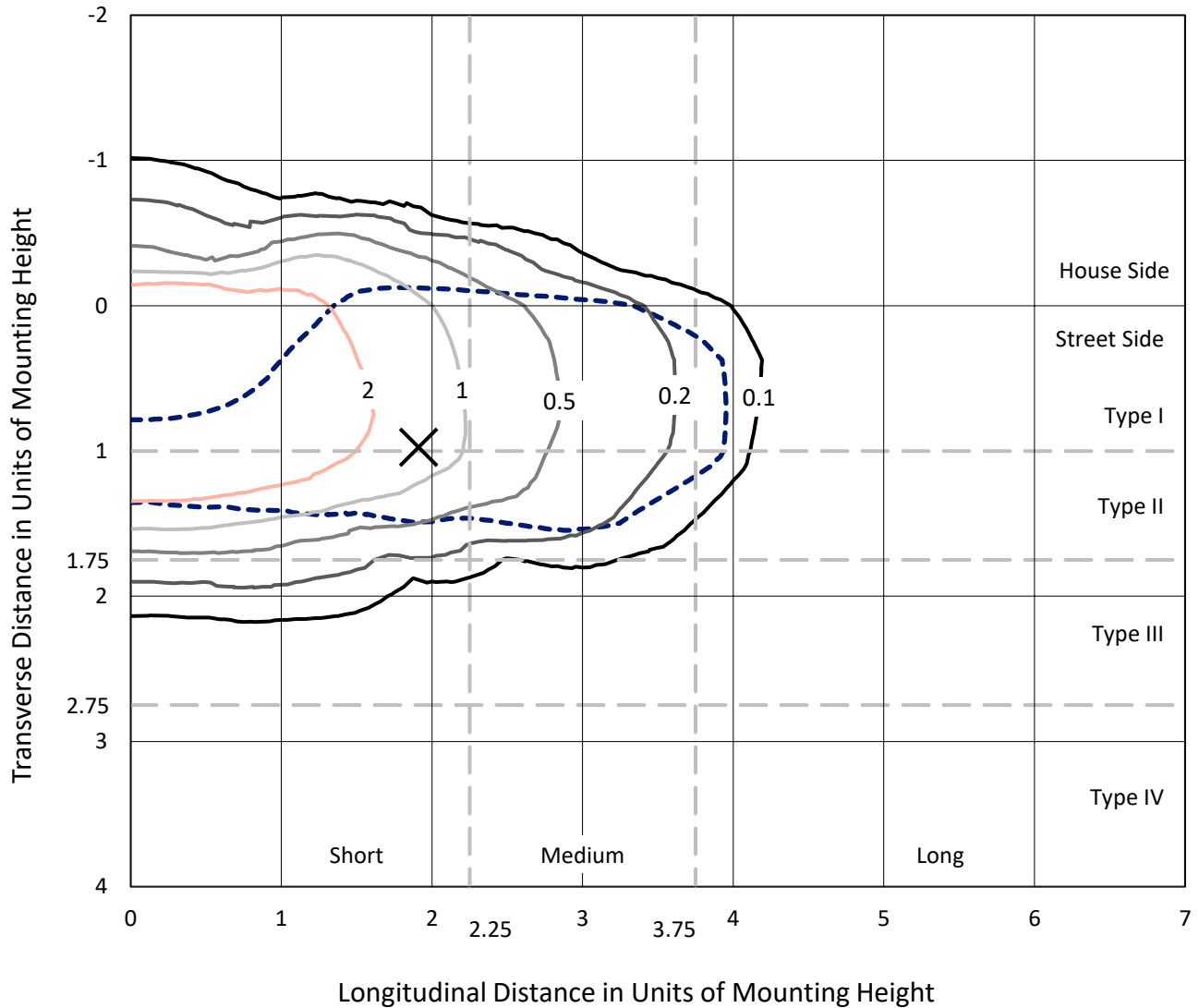
Lumens per Lamp: N/A  
Luminaire Lumens: 13963 lumens  
Efficiency: N/A  
Efficacy: 69.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

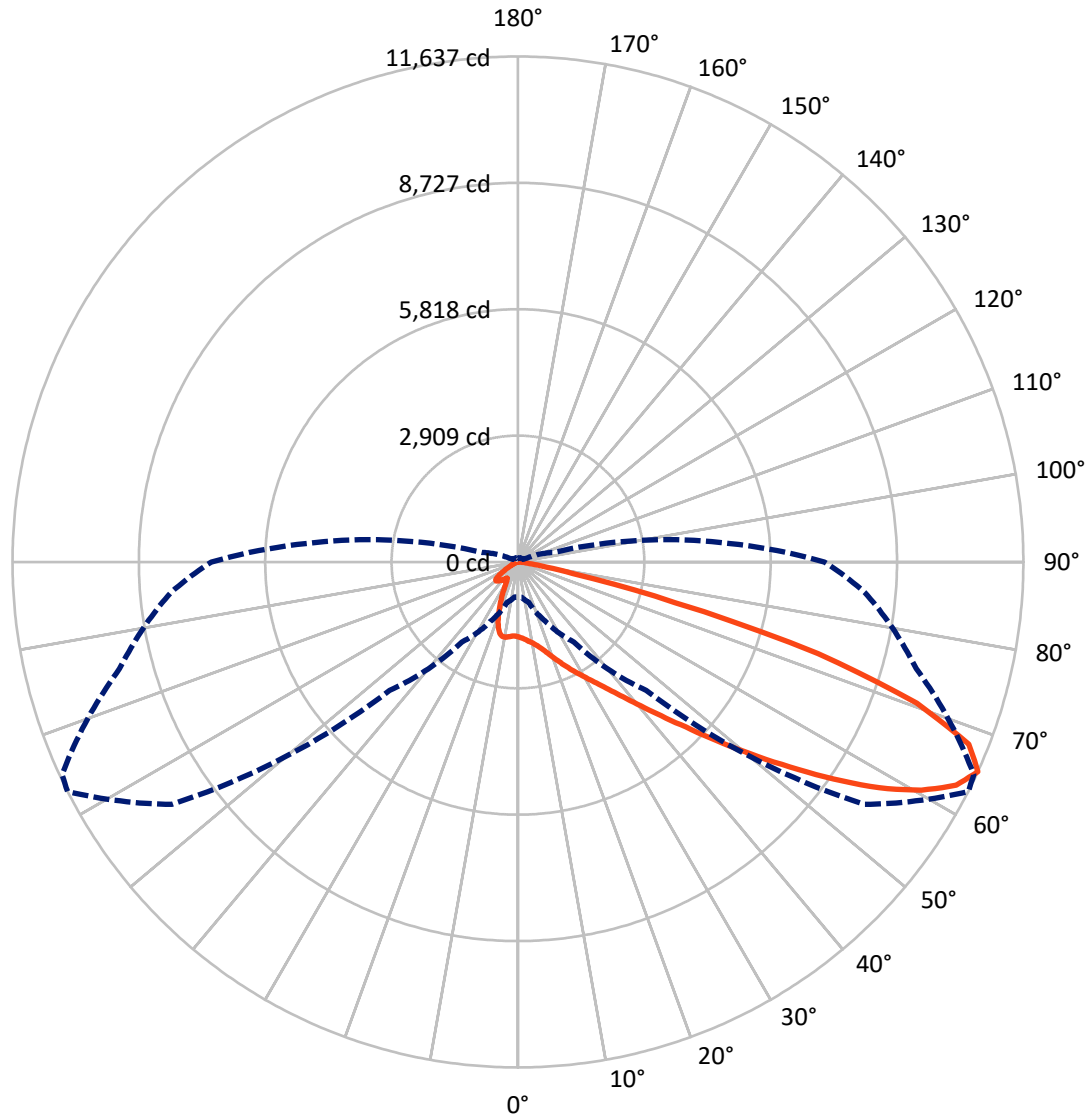
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2052.5	0.0	2052.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	11910.5	0.0	11910.5
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	13963.0	0.0	13963.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.4	1.2
10°-20°	450.5	3.2
20°-30°	784.5	5.6
30°-40°	1413.9	10.1
40°-50°	2804.2	20.1
50°-60°	3819.8	27.4
60°-70°	3048.9	21.8
70°-80°	1379.7	9.9
80°-90°	99.2	0.7
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°	13963.0	100.0
0°-180°	13963.0	100.0

**Coefficient of Utilization**



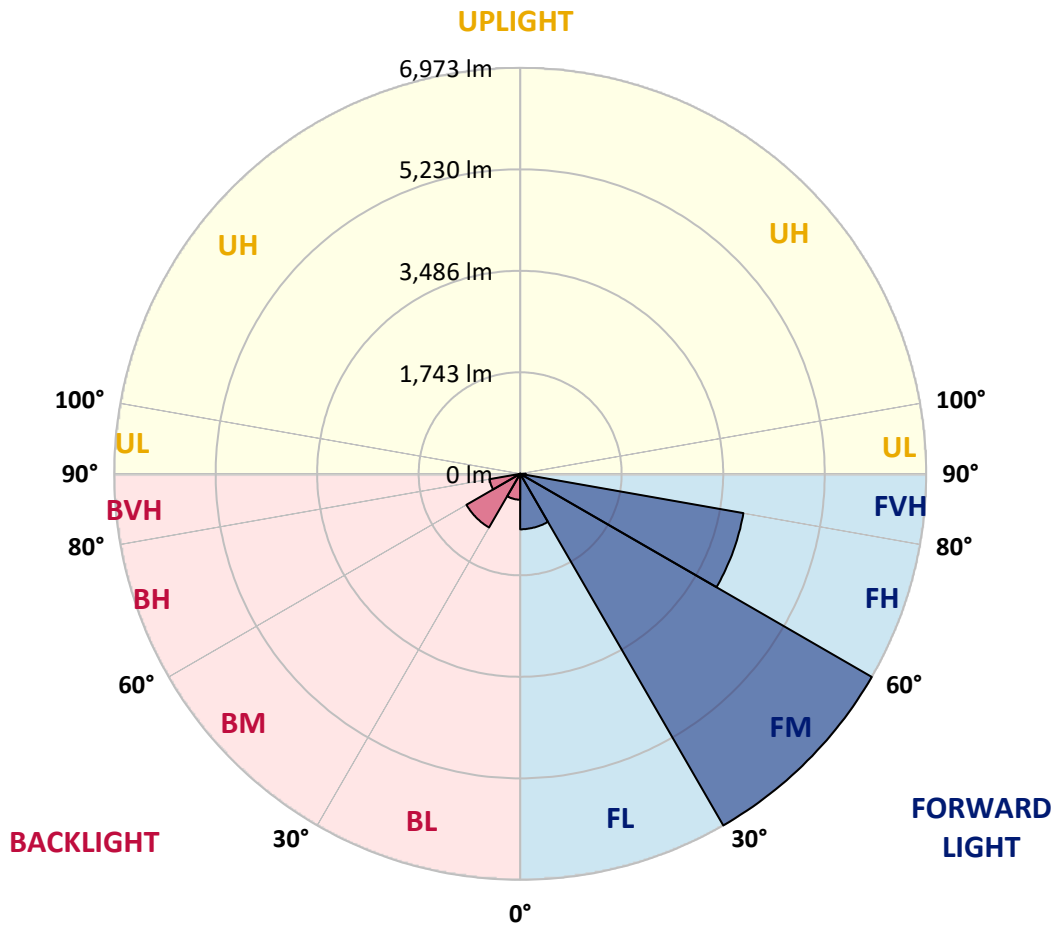
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	953.1	6.8			
FM (30°-60°)	6972.8	49.9			
FH (60°-80°)	3892.8	27.9			G2/5000
FVH (80°-90°)	91.8	0.7			G1/100
BL (0°-30°)	444.2	3.2	B1/500		
BM (30°-60°)	1065.1	7.6	B2/2500		
BH (60°-80°)	535.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	7.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1723.3	1723.3	1723.3	1723.3	1723.3	1723.3	1723.3	1723.3	1723.3	1723.3
2.5°	1763.6	1758.8	1765.6	1762.7	1760.8	1756.9	1755.0	1753.1	1749.2	1746.4
5°	1768.4	1765.6	1772.3	1778.1	1783.8	1789.6	1792.5	1796.3	1792.5	1784.8
7.5°	1728.1	1726.2	1740.6	1757.9	1783.8	1805.9	1829.9	1843.4	1844.3	1841.5
10°	1725.2	1720.4	1734.8	1756.0	1789.6	1829.0	1871.2	1900.0	1903.9	1916.4
12.5°	1770.4	1765.6	1785.7	1808.8	1843.4	1884.7	1936.5	1976.9	1982.7	1999.9
15°	1846.3	1839.5	1862.6	1892.4	1936.5	1983.6	2038.4	2074.9	2079.7	2100.8
17.5°	1934.6	1927.9	1954.8	1986.5	2034.5	2098.9	2162.3	2202.6	2208.4	2221.8
20°	2048.0	2039.3	2060.5	2089.3	2140.2	2217.0	2292.9	2350.6	2349.6	2349.6
22.5°	2179.6	2166.1	2184.4	2207.4	2255.5	2348.6	2449.5	2517.7	2517.7	2490.8
25°	2320.8	2307.3	2327.5	2348.6	2390.9	2496.6	2614.7	2699.3	2703.1	2657.0
27.5°	2497.5	2480.2	2495.6	2520.6	2545.6	2653.1	2793.4	2891.4	2893.3	2822.2
30°	2837.6	2788.6	2740.6	2713.7	2725.2	2831.8	2981.7	3090.2	3099.8	3001.8
32.5°	3460.0	3450.4	3281.4	3060.4	2945.2	3023.9	3192.0	3322.7	3328.4	3202.6
35°	4427.4	4415.8	4144.0	3723.2	3347.7	3281.4	3447.6	3602.2	3598.4	3456.2
37.5°	5582.0	5571.4	5213.1	4650.2	4042.2	3670.4	3777.0	3939.4	3963.4	3777.0
40°	6568.5	6529.1	6302.4	5759.7	4964.3	4315.9	4245.8	4353.4	4378.4	4157.4
42.5°	7315.9	7282.2	7167.0	6827.9	6080.5	5270.8	4798.1	4839.5	4867.3	4602.2
45°	7703.0	7695.3	7741.4	7709.7	7217.9	6442.7	5587.8	5415.8	5426.4	5095.0
47.5°	7757.7	7753.9	7964.2	8262.0	8195.8	7764.4	6601.2	6134.3	6096.9	5651.1
50°	7435.0	7427.3	7830.7	8388.8	8849.0	8874.9	7752.0	6944.1	6861.5	6226.5
52.5°	6404.3	6402.3	7065.1	7994.0	9078.5	9847.0	8889.3	7833.6	7695.3	6835.6
55°	4927.8	4963.4	5723.2	6821.1	8659.7	10314.8	9910.4	8821.1	8608.8	7448.4
57.5°	3490.8	3542.7	4293.8	5271.7	7361.0	10038.2	10601.1	9810.5	9581.9	8059.3
60°	1875.1	1921.2	2673.3	3840.4	5476.3	9006.5	10965.1	10669.3	10453.1	8639.5
62.5°	1117.2	1132.5	1443.8	2479.3	3704.0	6880.7	10810.5	11323.4	11145.7	9126.6
65°	802.1	805.0	961.6	1513.9	2248.7	4180.5	9726.0	11636.6	11581.8	9493.5
67.5°	675.3	673.4	738.7	1005.7	1532.1	2094.1	7454.2	11193.8	11426.2	9726.0
70°	579.2	582.1	659.0	736.8	1151.7	1185.4	3706.0	9746.1	10241.8	9787.4
72.5°	431.3	440.9	512.0	671.5	869.3	815.5	1279.5	7226.5	8122.7	9221.7
75°	304.5	309.3	360.2	564.8	648.4	593.6	653.2	3735.7	4884.6	7069.9
77.5°	234.4	243.0	272.8	394.8	638.8	416.9	399.6	1293.0	1986.5	4270.8
80°	126.8	142.2	196.9	285.3	448.6	294.9	197.9	514.9	673.4	1997.1
82.5°	65.3	73.0	137.4	205.6	255.5	257.4	98.0	214.2	277.6	616.7
85°	25.9	31.7	92.2	113.3	131.6	126.8	44.2	86.5	99.9	171.0
87.5°	5.8	9.6	33.6	25.9	25.0	26.9	10.6	20.2	19.2	20.2
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°
1723.3	0°	1723.3	1723.3	1723.3	1723.3	1723.3	1723.3	1723.3	1723.3	1723.3	1723.3
1734.8	2.5°	1733.9	1730.0	1719.5	1707.9	1694.5	1686.8	1682.0	1681.0	1674.3	1669.5
1773.2	5°	1762.7	1758.8	1738.7	1714.7	1688.7	1668.5	1649.3	1632.0	1607.1	1602.3
1829.0	7.5°	1820.3	1809.8	1777.1	1744.4	1695.4	1636.8	1565.8	1484.1	1411.1	1389.0
1902.9	10°	1891.4	1877.0	1835.7	1778.1	1669.5	1510.0	1338.1	1178.6	1051.8	1016.3
1990.3	12.5°	1972.1	1959.6	1904.8	1798.2	1561.0	1271.8	1008.6	810.7	687.8	657.0
2083.5	15°	2068.1	2049.9	1974.0	1767.5	1366.9	966.4	692.6	575.4	531.2	525.4
2190.1	17.5°	2170.0	2140.2	2035.5	1657.0	1105.6	686.8	535.0	501.4	482.2	476.5
2297.7	20°	2263.1	2224.7	2072.0	1489.9	826.1	535.0	479.3	457.2	440.0	433.2
2405.3	22.5°	2356.3	2301.6	2072.0	1262.2	619.6	474.5	440.0	419.8	399.6	391.0
2520.6	25°	2453.3	2380.3	2035.5	1008.6	498.5	435.1	402.5	380.4	363.1	352.5
2630.1	27.5°	2547.5	2446.6	1951.9	768.5	443.8	400.6	367.9	346.8	330.4	322.8
2749.2	30°	2636.8	2511.9	1834.7	583.1	408.3	366.9	336.2	318.0	301.6	293.9
2903.9	32.5°	2757.9	2594.6	1709.8	478.4	377.5	335.2	307.4	290.1	275.7	269.9
3104.6	35°	2926.0	2716.5	1602.3	469.7	351.6	309.3	281.5	265.1	250.7	245.9
3364.0	37.5°	3164.2	2913.5	1545.6	527.4	330.4	286.3	260.3	243.0	229.6	225.7
3693.5	40°	3458.1	3180.5	1576.3	585.0	316.0	266.1	241.1	223.8	212.3	207.5
4071.9	42.5°	3806.8	3510.0	1746.4	629.2	306.4	248.8	222.9	203.6	196.0	194.0
4501.3	45°	4207.4	3872.1	2006.7	676.3	291.1	232.5	204.6	190.2	184.4	183.5
4968.2	47.5°	4662.7	4269.8	2308.3	734.9	275.7	217.1	190.2	180.6	175.8	173.9
5455.2	50°	5114.2	4670.4	2618.6	767.5	263.2	202.7	178.7	171.0	167.1	166.2
5970.1	52.5°	5586.8	5082.5	2869.3	736.8	252.6	191.2	169.1	163.3	159.5	158.5
6444.6	55°	6037.3	5415.8	2912.5	625.3	231.5	179.6	158.5	155.6	150.8	150.8
6925.9	57.5°	6425.4	5582.9	2607.0	459.2	210.4	162.3	147.9	145.0	141.2	140.2
7360.0	60°	6781.8	5534.9	2012.4	309.3	187.3	145.0	134.5	132.6	128.7	123.9
7737.6	62.5°	6982.5	5323.6	1376.5	201.7	164.3	126.8	119.1	118.2	109.5	99.9
8017.1	65°	7058.4	4889.4	858.8	147.0	137.4	108.5	102.8	100.9	88.4	77.8
8175.6	67.5°	6992.1	4174.7	433.2	116.2	108.5	90.3	84.5	84.5	75.9	66.3
8166.0	70°	6727.0	3129.6	182.5	93.2	83.6	69.2	69.2	73.0	64.4	53.8
7742.4	72.5°	6151.6	2105.6	97.0	71.1	62.4	49.0	56.7	59.6	50.9	40.3
6337.0	75°	4890.4	1284.3	67.2	52.8	39.4	34.6	43.2	45.1	34.6	26.9
4344.7	77.5°	3344.8	737.7	45.1	33.6	25.0	20.2	29.8	27.9	18.3	12.5
1675.3	80°	1468.7	307.4	25.9	15.4	9.6	7.7	10.6	7.7	5.8	3.8
229.6	82.5°	171.9	72.0	9.6	5.8	3.8	1.9	1.0	0.0	0.0	0.0
70.1	85°	35.5	8.6	4.8	1.9	1.0	0.0	0.0	0.0	0.0	0.0
12.5	87.5°	6.7	1.9	1.0	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°
1723.3
1674.3
1600.3
1378.4
1002.9
648.4
519.7
473.6
429.4
386.2
348.7
322.8
294.9
269.9
245.9
224.8
206.5
194.0
182.5
173.9
166.2
158.5
149.9
139.3
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