

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: P946327

Luminaire Tested: **GALN-SB2A-735-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-735-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

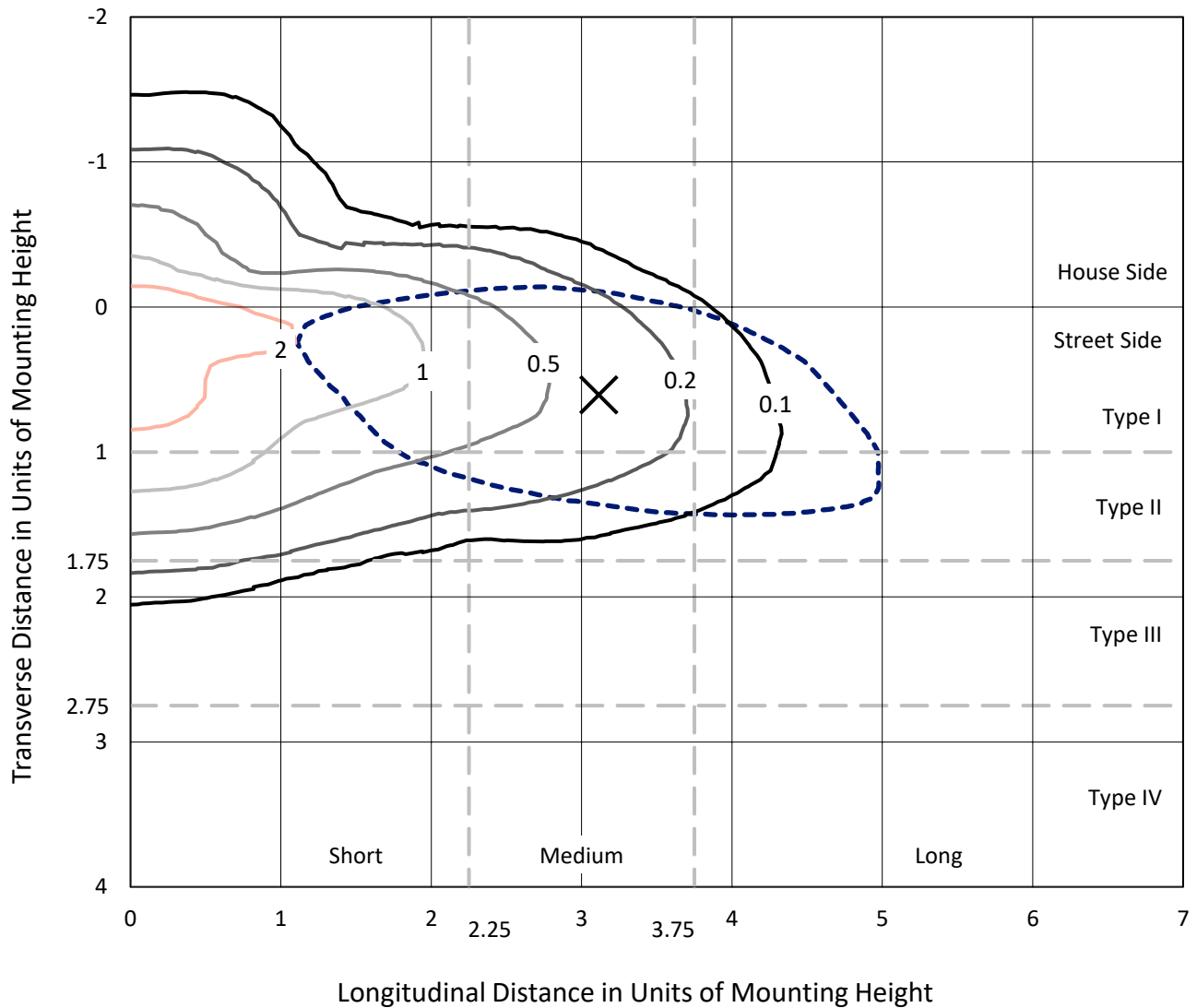
Lumens per Lamp: N/A  
Luminaire Lumens: 8916 lumens  
Efficiency: N/A  
Efficacy: 155.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P946327  
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### Iso-Footcandle Lines of Horizontal Illumination

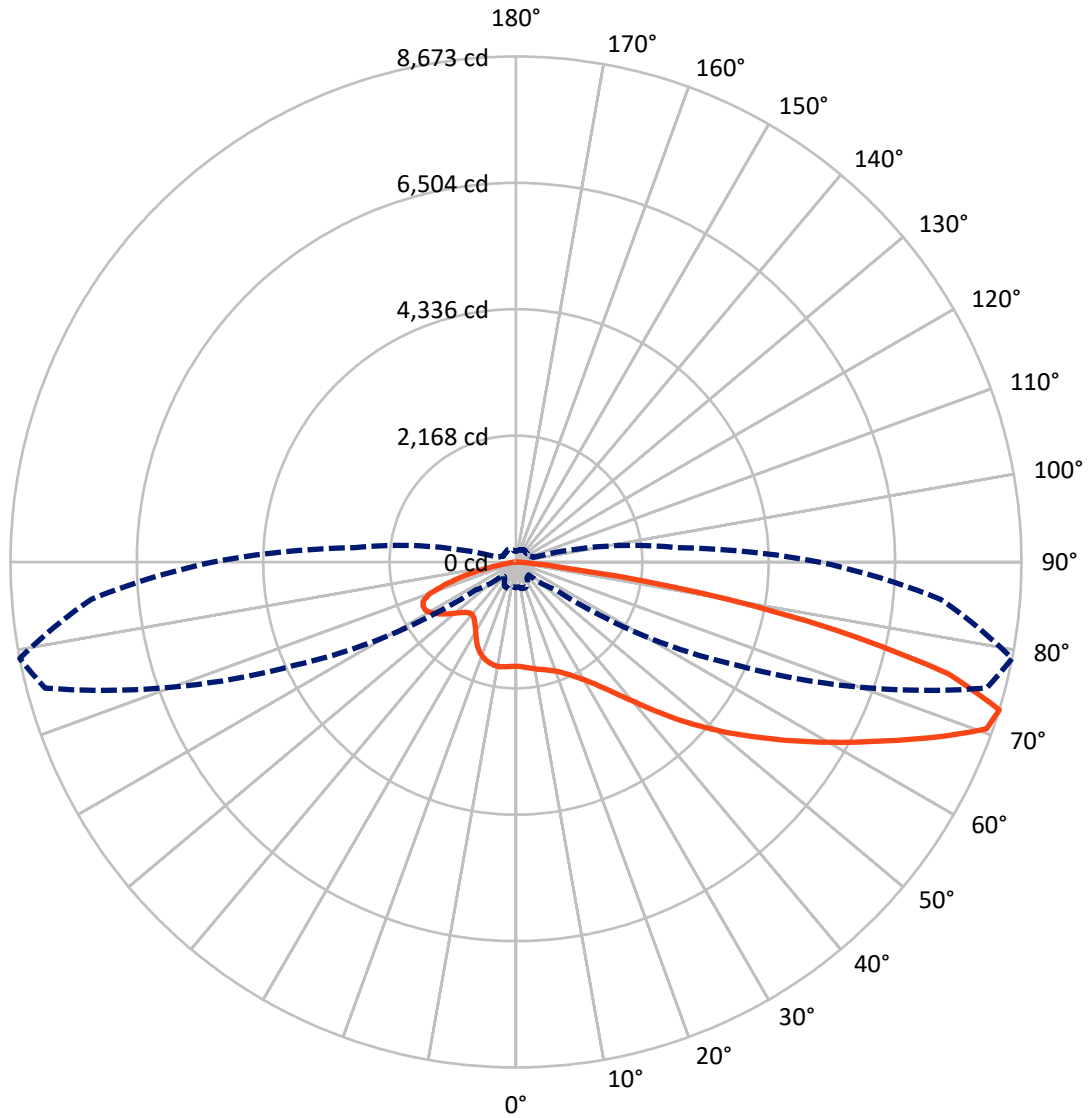
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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CATALOG NUMBER: GALN-SB2A-735-U-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1962.0	0.0	1962.0
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	6954.0	0.0	6954.0
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	8916.0	0.0	8916.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.5	1.8
10°-20°	424.8	4.8
20°-30°	685.4	7.7
30°-40°	1028.7	11.5
40°-50°	1459.2	16.4
50°-60°	1842.8	20.7
60°-70°	1871.6	21.0
70°-80°	1275.6	14.3
80°-90°	165.5	1.9
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°	8916.0	100.0
0°-180°	8916.0	100.0

**Coefficient of Utilization**



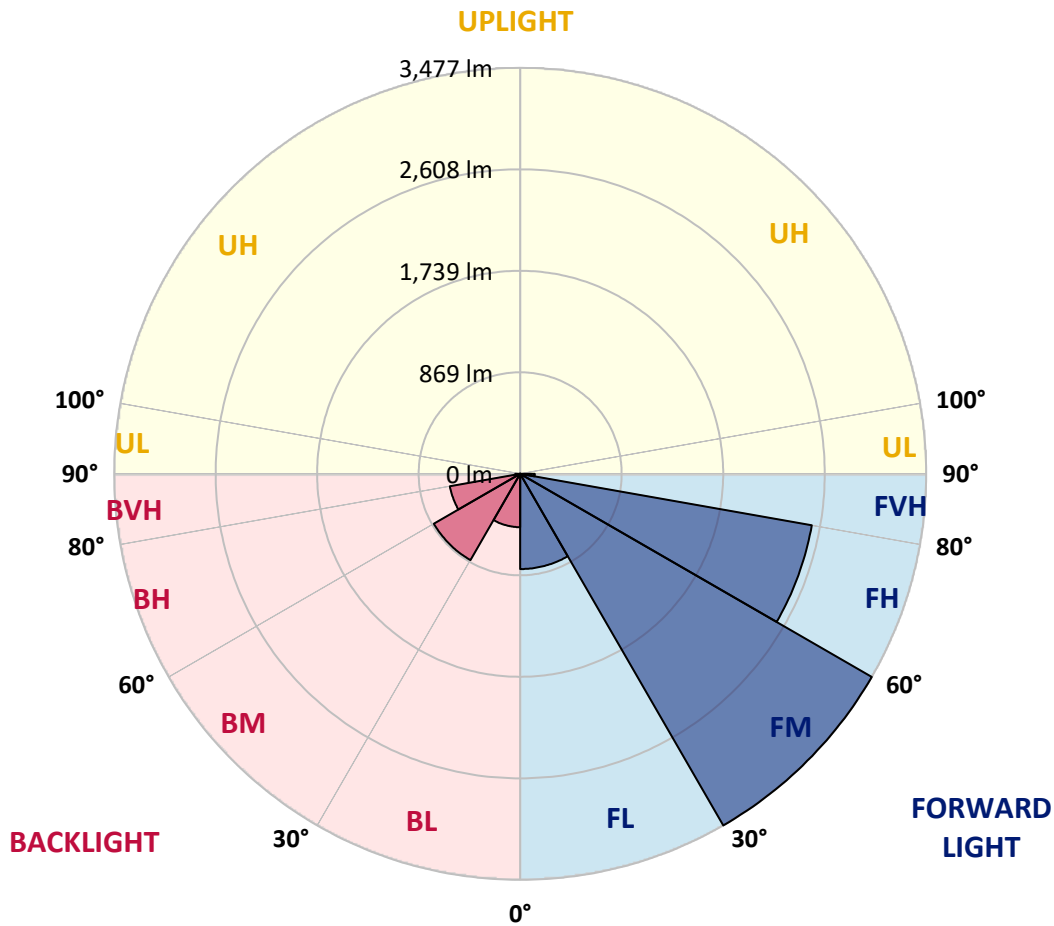
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 CATALOG NUMBER: GALN-SB2A-735-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.6	9.1			
FM (30°-60°)	3477.4	39.0			
FH (60°-80°)	2536.3	28.4			G2/5000
FVH (80°-90°)	124.7	1.4			G2/225
BL (0°-30°)	457.0	5.1	B1/500		
BM (30°-60°)	853.3	9.6	B1/1000		
BH (60°-80°)	610.9	6.9	B2/1000		G2/1000
BVH (80°-90°)	40.8	0.5			G1/100
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 Medium



REPORT NUMBER: P946327

CATALOG NUMBER: GALN-SB2A-735-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8
2.5°	1790.7	1782.3	1787.4	1785.6	1787.9	1790.7	1791.7	1793.1	1797.8	1797.3
5°	1787.0	1778.5	1785.6	1783.2	1789.3	1795.9	1801.6	1806.8	1814.3	1817.6
7.5°	1779.0	1773.3	1780.4	1787.4	1798.8	1808.7	1816.7	1828.5	1839.3	1841.2
10°	1732.3	1728.0	1744.5	1762.9	1794.0	1820.9	1838.4	1852.1	1863.8	1865.7
12.5°	1683.7	1678.5	1696.9	1721.9	1772.4	1820.9	1857.7	1875.6	1886.0	1892.1
15°	1675.7	1671.4	1681.8	1703.5	1745.5	1808.2	1870.9	1903.9	1912.9	1920.0
17.5°	1714.3	1706.3	1710.6	1718.1	1742.6	1796.4	1881.3	1936.0	1949.7	1957.2
20°	1804.0	1792.6	1786.0	1770.9	1766.7	1798.3	1880.4	1974.7	1992.6	2002.0
22.5°	1923.3	1915.7	1901.6	1863.4	1821.9	1821.4	1898.3	2024.2	2057.7	2066.6
25°	2067.6	2056.3	2038.3	1986.5	1906.8	1867.1	1928.5	2087.4	2143.5	2145.9
27.5°	2233.6	2216.6	2192.1	2123.7	2016.2	1938.8	1974.7	2160.0	2242.1	2241.1
30°	2408.6	2391.6	2365.7	2282.6	2147.3	2035.5	2038.8	2238.3	2359.0	2353.9
32.5°	2536.4	2523.6	2518.5	2454.3	2298.2	2149.6	2112.4	2325.1	2503.4	2498.6
35°	2634.5	2618.0	2624.1	2591.6	2462.8	2277.5	2202.5	2428.4	2678.8	2678.3
37.5°	2731.6	2717.0	2722.2	2700.5	2615.1	2439.7	2312.4	2554.8	2896.2	2906.6
40°	2820.3	2804.7	2825.5	2805.2	2733.5	2612.3	2437.3	2697.7	3148.1	3167.9
42.5°	2873.6	2861.3	2895.8	2896.2	2836.3	2758.0	2574.6	2855.2	3439.5	3483.9
45°	2892.0	2887.7	2939.6	2950.5	2927.4	2842.5	2698.1	3026.9	3753.6	3832.9
47.5°	2872.2	2864.2	2935.8	2975.9	2994.3	2882.1	2800.5	3212.7	4074.3	4190.4
50°	2772.2	2756.6	2863.2	2947.6	3013.2	2908.0	2903.8	3427.3	4438.9	4565.8
52.5°	2592.5	2580.7	2701.9	2848.6	2971.7	2920.7	3019.8	3661.7	4785.1	4949.2
55°	2362.8	2347.3	2480.7	2672.2	2868.4	2916.5	3135.8	3923.9	5193.5	5360.0
57.5°	1998.7	1967.6	2136.4	2362.8	2700.0	2911.3	3256.5	4184.7	5608.5	5808.0
60°	1467.7	1421.5	1628.5	1896.9	2370.8	2860.9	3406.0	4477.1	6106.6	6286.2
62.5°	854.6	827.7	963.1	1213.5	1787.0	2563.7	3490.0	4817.1	6596.1	6784.7
65°	663.6	656.0	667.8	687.2	994.6	1919.5	3231.1	5148.7	7218.6	7350.7
67.5°	607.0	601.3	606.5	570.2	504.6	1069.2	2556.2	5232.6	7885.5	7965.7
70°	539.5	532.9	549.9	518.8	397.1	486.2	1651.6	4928.0	8416.1	8566.5
72.5°	439.6	432.0	471.6	457.5	334.4	312.2	829.6	4204.0	8360.4	8672.6
75°	337.7	333.4	380.6	392.4	272.6	245.7	398.0	3125.0	7357.3	7671.9
77.5°	262.2	258.9	283.0	325.9	219.8	190.5	244.8	1982.2	5544.4	5599.6
80°	196.7	187.2	209.4	252.3	171.2	139.1	166.0	1155.9	3504.6	3176.8
82.5°	123.1	118.4	136.8	168.4	120.7	95.7	108.0	638.6	1404.5	827.2
85°	70.3	68.4	74.5	96.2	65.6	55.2	61.8	282.0	256.6	176.4
87.5°	28.3	27.4	34.0	42.9	24.1	20.3	21.7	67.9	56.6	52.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946327  
 CATALOG NUMBER: GALN-SB2A-735-U-SL2

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1789.8	0°	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8
1796.9	2.5°	1795.0	1795.0	1788.4	1778.0	1766.2	1758.7	1746.4	1743.1	1730.4	1726.6
1812.9	5°	1816.7	1812.9	1792.6	1763.4	1723.3	1686.5	1646.0	1620.5	1584.6	1571.9
1844.5	7.5°	1844.0	1833.7	1798.8	1734.6	1650.7	1568.1	1482.3	1417.2	1355.0	1332.8
1870.4	10°	1869.0	1854.4	1795.0	1682.7	1537.5	1394.6	1257.8	1162.1	1089.4	1059.7
1899.2	12.5°	1894.0	1867.1	1770.0	1596.4	1376.7	1182.8	1037.1	962.6	917.8	881.9
1922.8	15°	1917.6	1879.9	1731.3	1480.9	1200.3	1003.6	896.1	836.7	800.8	777.2
1957.2	17.5°	1945.0	1890.7	1673.3	1334.2	1032.4	879.6	791.9	756.0	748.9	746.1
2004.4	20°	1983.2	1900.6	1596.9	1170.1	908.8	780.5	735.3	732.0	731.5	730.1
2061.0	22.5°	2024.2	1912.4	1496.0	1021.1	803.6	718.8	710.7	704.1	699.9	699.4
2129.4	25°	2072.8	1916.2	1369.6	898.9	714.0	689.5	680.1	670.2	667.3	667.3
2207.2	27.5°	2119.9	1903.5	1222.4	792.8	663.6	662.6	650.4	647.1	646.6	648.0
2295.9	30°	2167.1	1879.4	1076.2	694.7	634.3	634.3	630.1	632.4	634.3	639.0
2417.5	32.5°	2230.8	1853.9	954.1	622.1	608.9	604.1	608.4	613.1	615.0	621.1
2577.4	35°	2324.1	1836.0	856.9	582.5	582.5	576.3	578.7	577.7	573.5	570.7
2770.8	37.5°	2447.7	1835.1	776.8	564.1	560.3	559.3	559.8	553.7	537.2	517.4
3004.7	40°	2596.3	1860.5	715.0	551.3	548.5	554.2	551.3	534.8	489.5	455.1
3292.4	42.5°	2795.8	1933.2	675.4	535.8	544.3	551.3	540.0	482.9	452.3	429.2
3620.2	45°	3030.6	2051.1	655.1	519.3	536.2	544.7	490.0	465.0	440.5	412.7
3977.7	47.5°	3296.6	2199.6	650.4	503.7	518.3	523.5	468.8	457.5	429.6	399.5
4337.0	50°	3586.2	2375.6	663.1	485.3	492.4	474.5	461.7	451.3	422.6	392.9
4705.4	52.5°	3885.7	2569.4	688.6	460.3	466.4	446.6	458.9	449.9	418.3	378.2
5086.0	55°	4180.0	2764.6	713.1	431.1	440.0	421.6	450.9	444.3	399.0	353.7
5492.0	57.5°	4479.0	2959.0	737.1	405.1	414.6	397.6	438.1	429.2	377.3	331.1
5935.4	60°	4789.8	3147.6	748.5	380.1	386.7	375.4	418.8	403.2	352.8	308.0
6371.1	62.5°	5080.8	3304.6	730.1	355.1	359.4	354.7	393.3	372.6	328.2	282.0
6825.3	65°	5372.7	3398.0	673.5	330.6	331.5	329.2	357.5	339.6	299.5	259.4
7222.9	67.5°	5637.3	3450.4	583.4	304.2	301.8	300.9	324.0	303.7	271.7	236.8
7525.2	70°	5693.4	3317.4	445.7	273.1	273.1	270.7	287.2	266.5	241.0	212.7
7308.7	72.5°	5200.1	2790.6	316.5	237.7	241.5	236.8	250.4	233.0	209.9	191.0
6299.0	75°	4193.2	2046.4	230.2	201.4	208.0	200.0	212.7	200.4	180.6	180.2
4340.8	77.5°	2881.1	1265.4	167.0	166.0	170.7	160.4	175.0	168.4	150.4	142.4
1889.3	80°	1229.5	504.6	121.7	128.3	128.3	118.8	135.8	137.7	122.1	118.4
364.6	82.5°	244.8	143.4	85.4	88.2	83.0	80.2	96.2	106.6	147.1	163.7
109.9	85°	73.6	52.8	51.4	48.1	42.4	42.9	56.6	107.1	132.1	75.5
36.3	87.5°	20.3	13.2	13.7	10.8	9.0	11.8	19.3	81.1	44.3	18.9
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>
1789.8
1732.7
1581.3
1335.6
1066.3
893.7
781.5
748.0
734.8
704.6
670.2
651.8
642.3
626.3
577.3
517.8
454.2
428.2
410.8
397.1
389.6
375.4
351.4
330.1
306.6
281.6
256.6
233.9
211.8
185.3
162.2
133.5
118.4
164.1
65.1
16.0
0.0

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