

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: P947053

Luminaire Tested: **GALN-SB2C-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15375 lumens
Efficiency: N/A
Efficacy: 152.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

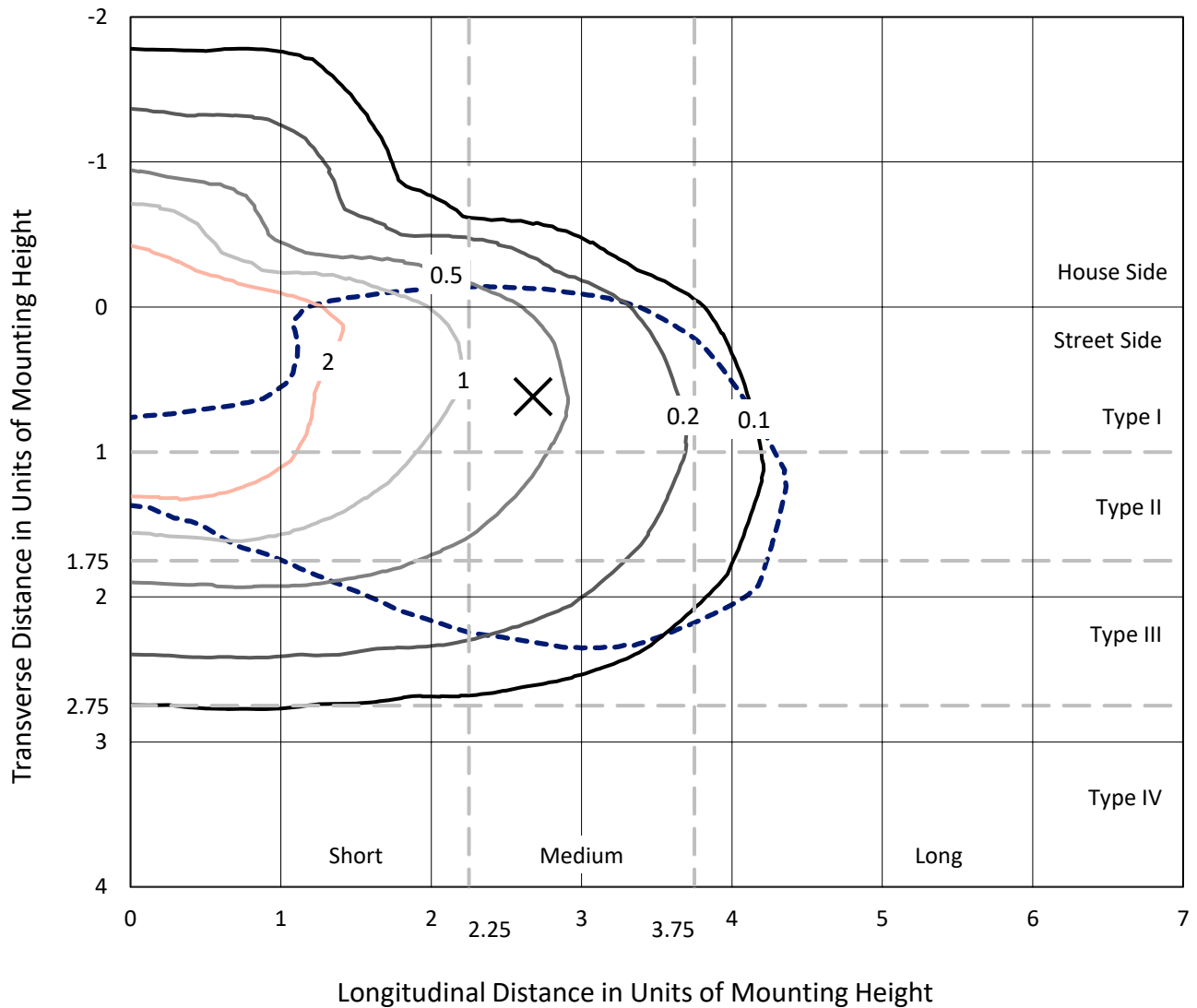
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

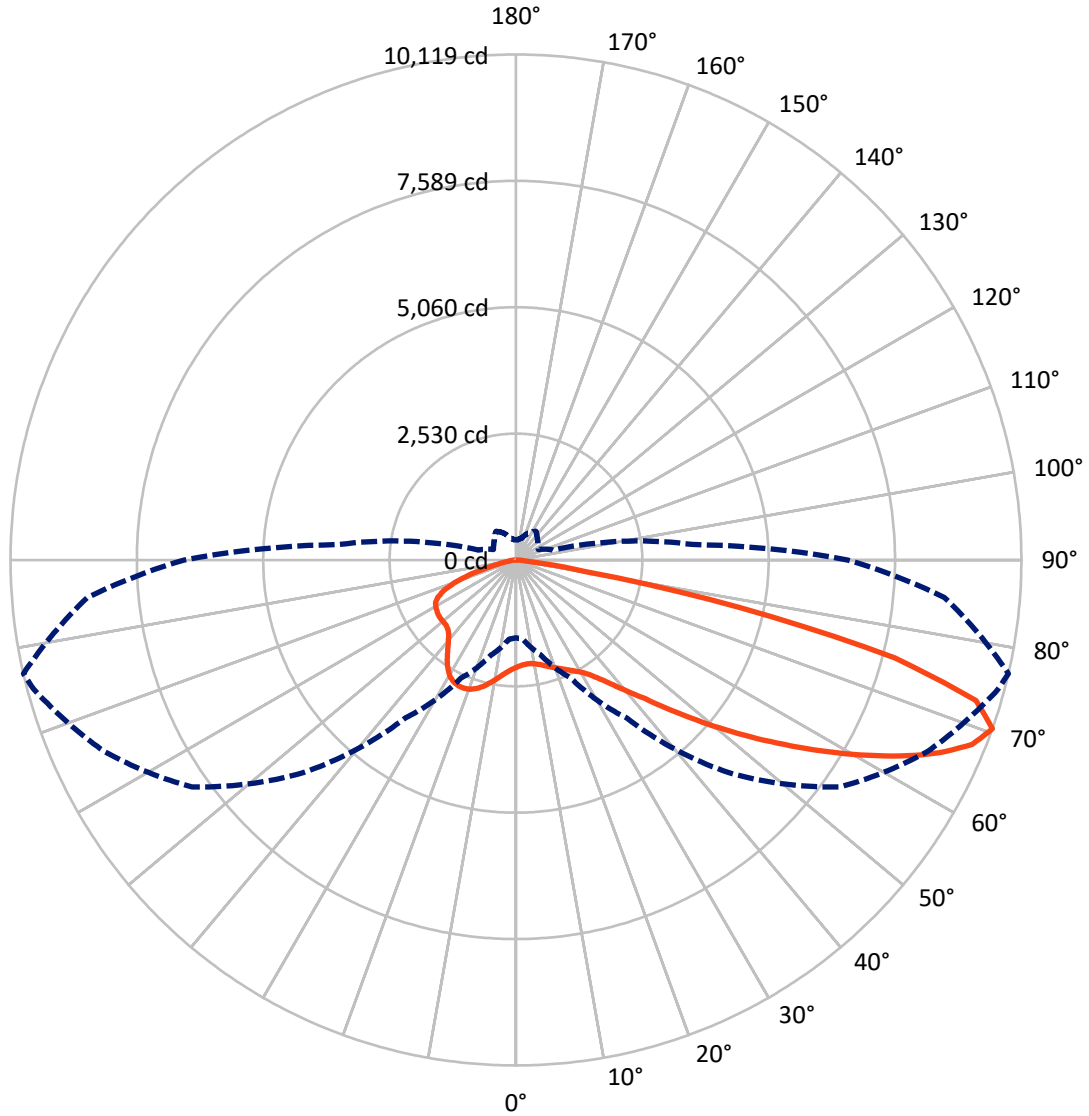
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3366.9	0.0	3366.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12008.1	0.0	12008.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	15375.0	0.0	15375.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	1.3
10°-20°	590.4	3.8
20°-30°	1009.7	6.6
30°-40°	1623.7	10.6
40°-50°	2535.0	16.5
50°-60°	3386.1	22.0
60°-70°	3609.1	23.5
70°-80°	2221.7	14.5
80°-90°	194.7	1.3
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°	15375.0	100.0
0°-180°	15375.0	100.0



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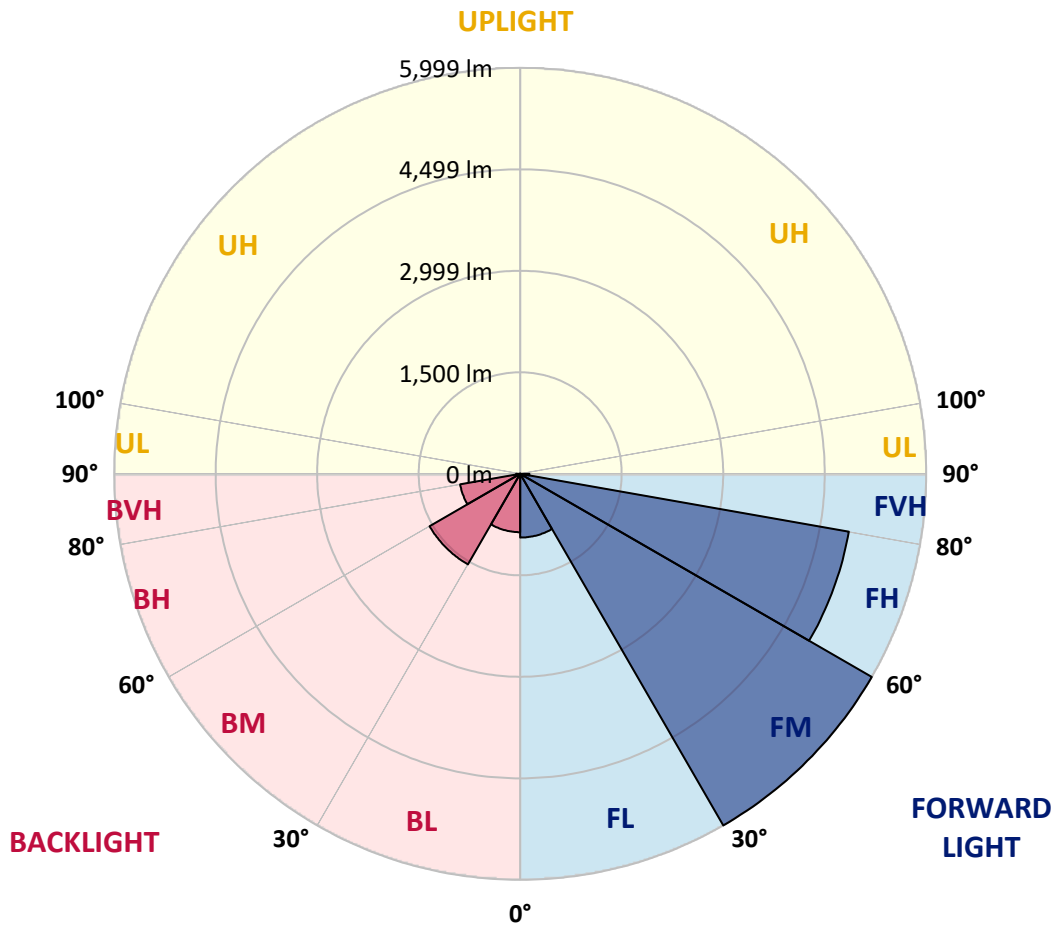
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	942.0	6.1			
FM (30°-60°)	5999.0	39.0			
FH (60°-80°)	4931.0	32.1			G2/5000
FVH (80°-90°)	136.1	0.9			G2/225
BL (0°-30°)	862.7	5.6	B2/1000		
BM (30°-60°)	1545.8	10.1	B2/2500		
BH (60°-80°)	899.8	5.9	B2/1000		G2/1000
BVH (80°-90°)	58.5	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0
2.5°	1977.2	1976.4	1986.7	1989.8	2008.7	2022.1	2047.3	2074.1	2108.7	2112.7
5°	1863.1	1863.1	1874.9	1887.5	1911.9	1938.6	1977.2	2023.7	2083.5	2093.0
7.5°	1766.2	1772.5	1782.7	1807.1	1835.5	1874.1	1933.1	1999.3	2078.0	2093.0
10°	1688.2	1695.3	1707.9	1727.6	1770.1	1823.7	1900.9	1985.9	2091.4	2115.0
12.5°	1663.8	1670.9	1678.0	1693.0	1732.3	1795.3	1887.5	1992.2	2123.7	2147.3
15°	1720.5	1729.2	1723.7	1719.7	1740.2	1797.7	1893.8	2015.0	2163.9	2197.7
17.5°	1851.2	1854.4	1841.8	1804.8	1801.6	1832.3	1923.7	2046.5	2214.2	2251.3
20°	2062.3	2056.8	2030.8	1957.5	1915.8	1909.5	1974.9	2093.8	2266.2	2305.6
22.5°	2348.9	2342.6	2290.6	2174.9	2082.0	2020.5	2048.9	2155.2	2324.5	2368.6
25°	2706.4	2697.7	2621.3	2463.9	2319.8	2167.8	2149.7	2236.3	2396.1	2437.1
27.5°	3123.7	3116.6	3034.0	2826.1	2618.2	2369.4	2274.9	2331.6	2470.9	2517.4
30°	3572.6	3593.0	3446.6	3222.9	2959.9	2632.4	2443.4	2448.9	2567.8	2609.5
32.5°	4100.1	4135.6	3959.2	3675.7	3316.6	2918.2	2656.0	2612.7	2708.8	2743.4
35°	4623.0	4663.1	4516.7	4203.3	3789.9	3255.2	2878.0	2800.9	2896.2	2934.0
37.5°	5075.0	5128.5	5052.9	4780.5	4296.2	3661.5	3167.8	3022.1	3126.9	3174.1
40°	5431.7	5513.6	5508.1	5338.0	4893.1	4154.5	3535.5	3295.4	3413.5	3464.7
42.5°	5721.4	5792.3	5853.7	5845.1	5515.9	4714.3	3967.8	3650.5	3740.3	3799.3
45°	5921.5	5997.0	6129.3	6271.9	6115.2	5313.6	4463.1	4071.8	4153.7	4242.7
47.5°	6100.2	6186.0	6357.7	6583.7	6623.8	5915.2	5005.7	4562.4	4637.2	4729.3
50°	6116.0	6190.0	6456.1	6776.6	6985.3	6493.1	5588.4	5112.8	5182.8	5281.3
52.5°	5735.6	5852.2	6316.7	6771.1	7151.4	6976.6	6167.1	5685.2	5764.0	5882.1
55°	4452.1	4623.0	5908.1	6560.1	7092.4	7289.2	6717.5	6293.9	6394.7	6518.3
57.5°	3834.8	3909.6	4689.9	6175.8	6823.1	7370.3	7182.1	6908.9	7071.1	7206.5
60°	3446.6	3508.8	3970.2	5578.1	6468.7	7242.0	7541.2	7482.1	7762.5	7923.9
62.5°	3030.8	3089.9	3509.6	4657.6	6015.2	7028.6	7768.0	8011.3	8471.1	8647.5
65°	2618.2	2668.6	3071.0	3913.5	5438.8	6815.2	7885.3	8468.8	9127.1	9309.8
67.5°	2158.3	2200.1	2580.4	3301.7	4738.0	6523.1	7943.6	8828.6	9698.0	9854.7
70°	1557.5	1589.8	1982.7	2611.1	3858.4	6020.7	7919.9	9083.8	9994.0	10119.2
72.5°	736.2	765.4	1226.8	1695.3	2725.3	5042.7	7442.0	8881.4	9693.2	9631.0
75°	392.9	418.1	704.7	930.0	1439.4	3456.8	6090.0	7650.6	8139.6	7837.3
77.5°	266.2	285.8	436.2	558.3	657.5	1641.0	3914.3	5297.0	5096.2	4597.0
80°	211.0	231.5	357.5	378.0	318.1	592.9	1617.4	2452.0	1761.5	1408.7
82.5°	162.2	185.0	300.8	274.0	173.2	243.3	470.9	775.6	451.2	343.3
85°	99.2	123.6	236.2	174.8	97.6	111.0	159.8	215.8	137.8	115.0
87.5°	50.4	70.9	119.7	63.8	44.1	26.0	42.5	42.5	36.2	31.5
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°
2145.0	0°	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0
2133.9	2.5°	2152.8	2168.6	2195.3	2220.5	2240.2	2259.1	2278.0	2288.3	2291.4	2304.0
2145.7	5°	2178.0	2207.2	2259.1	2308.0	2338.7	2357.6	2370.9	2378.8	2380.4	2384.3
2178.0	7.5°	2224.5	2270.9	2343.4	2392.2	2415.0	2413.5	2408.0	2388.3	2380.4	2373.3
2225.3	10°	2289.8	2351.3	2440.2	2474.1	2459.9	2422.1	2373.3	2315.8	2289.1	2263.1
2289.8	12.5°	2370.9	2448.9	2536.3	2534.7	2464.6	2367.8	2254.4	2166.2	2110.3	2070.1
2369.4	15°	2469.4	2559.1	2626.1	2572.5	2419.0	2245.0	2078.8	1963.8	1913.4	1869.4
2449.7	17.5°	2571.0	2667.0	2697.7	2560.7	2304.0	2063.1	1874.9	1784.3	1734.7	1711.1
2536.3	20°	2670.2	2765.4	2740.2	2493.0	2129.2	1856.8	1689.0	1639.4	1629.2	1634.7
2620.6	22.5°	2774.9	2859.9	2748.9	2362.3	1906.4	1645.7	1553.6	1555.2	1578.0	1594.5
2708.8	25°	2882.0	2939.5	2726.1	2173.3	1667.0	1490.6	1467.8	1493.0	1537.8	1570.1
2808.0	27.5°	2985.1	3010.3	2676.5	1939.4	1461.5	1379.6	1383.5	1435.5	1503.2	1548.1
2928.4	30°	3101.7	3073.3	2581.2	1676.4	1318.9	1284.3	1317.4	1378.0	1445.7	1485.9
3080.4	32.5°	3233.2	3127.7	2430.0	1433.1	1218.2	1207.9	1262.2	1301.6	1331.5	1343.4
3282.0	35°	3397.0	3204.0	2236.3	1262.2	1127.6	1152.0	1204.0	1184.3	1172.5	1166.2
3552.9	37.5°	3609.6	3307.2	2009.5	1151.2	1054.4	1111.8	1133.1	1071.7	1025.2	1002.4
3881.2	40°	3865.5	3458.4	1791.4	1065.4	1007.9	1077.2	1040.2	966.2	907.1	874.8
4250.5	42.5°	4149.7	3616.7	1607.9	1000.8	981.9	1048.9	971.7	883.5	788.2	778.0
4690.7	45°	4448.2	3779.7	1482.7	951.2	969.3	1024.4	932.3	789.8	722.1	763.8
5132.5	47.5°	4746.6	3929.3	1407.1	914.2	963.0	996.9	897.7	737.8	689.8	750.4
5605.7	50°	5078.9	4063.1	1373.3	887.4	955.9	985.9	845.7	724.4	655.9	696.1
6095.5	52.5°	5408.8	4167.1	1348.1	860.7	945.7	977.2	820.5	708.7	615.0	617.3
6588.4	55°	5738.0	4234.8	1320.5	825.2	922.9	958.3	818.1	691.4	584.3	573.2
7109.7	57.5°	6089.2	4273.4	1286.7	785.9	883.5	910.3	815.8	678.0	574.8	556.7
7642.8	60°	6446.7	4330.1	1242.6	737.8	830.7	852.8	810.3	673.3	569.3	538.6
8145.2	62.5°	6767.2	4349.8	1189.8	692.1	763.0	796.1	798.5	669.3	554.3	501.6
8562.5	65°	6977.4	4264.7	1097.7	640.2	689.8	737.8	775.6	655.9	527.6	474.8
8768.8	67.5°	6968.7	4022.2	953.6	573.2	618.9	673.3	742.5	633.1	495.3	441.7
8612.9	70°	6644.3	3543.4	770.9	495.3	541.0	604.0	700.0	599.2	456.7	405.5
7658.5	72.5°	5698.6	2773.3	559.9	404.0	450.4	532.3	644.9	558.3	417.3	373.2
5660.0	75°	4071.0	1755.2	379.5	310.2	350.4	451.2	576.4	510.3	381.1	374.8
2834.7	77.5°	2079.6	838.6	251.2	226.8	244.1	355.9	484.3	455.9	386.6	309.5
806.3	80°	676.4	309.5	158.3	154.3	162.2	237.0	374.8	374.0	292.9	210.2
195.3	82.5°	215.8	133.1	103.2	99.2	95.3	148.8	261.4	296.1	197.6	133.1
70.1	85°	85.8	79.5	60.6	55.9	40.2	70.1	137.0	196.9	147.2	96.1
18.1	87.5°	31.5	31.5	16.5	11.8	8.7	23.6	37.0	59.1	84.3	49.6
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°
2145.0
2311.1
2390.6
2374.9
2255.2
2060.7
1864.6
1718.2
1632.3
1598.5
1578.8
1559.1
1495.3
1349.7
1172.5
1007.9
877.2
788.2
785.9
778.8
726.0
633.9
581.1
559.1
541.0
501.6
474.8
444.1
410.2
370.9
353.6
275.6
185.8
132.3
98.4
48.8
0.0

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