

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: P947221

Luminaire Tested: **GALN-SB2C-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947221
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-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14707 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

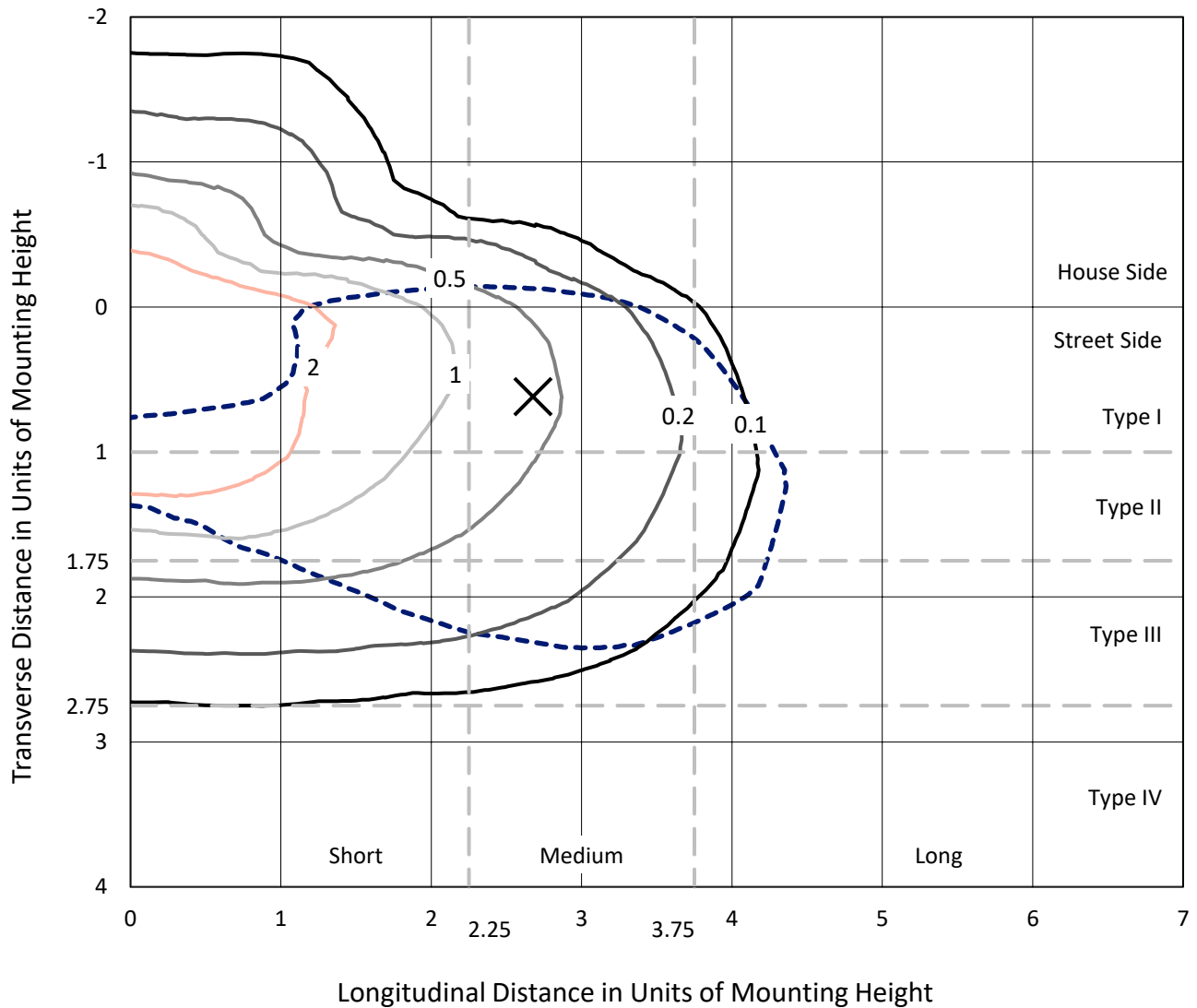
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

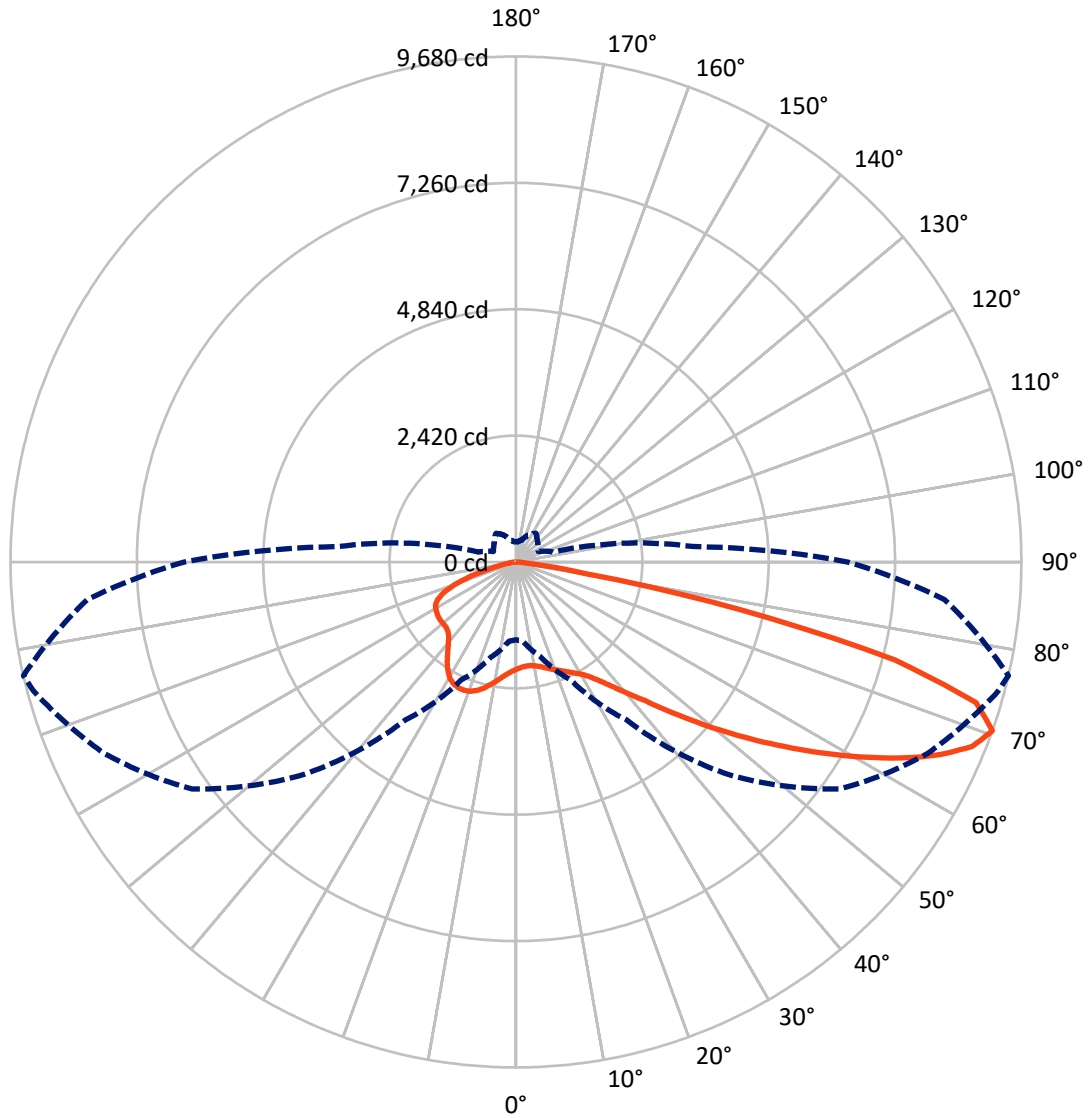
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	3220.6	0.0	3220.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	11486.4	0.0	11486.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	14707.0	0.0	14707.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.7	1.3
10°-20°	564.8	3.8
20°-30°	965.8	6.6
30°-40°	1553.1	10.6
40°-50°	2424.9	16.5
50°-60°	3239.0	22.0
60°-70°	3452.3	23.5
70°-80°	2125.2	14.5
80°-90°	186.2	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°	14707.0	100.0
0°-180°	14707.0	100.0



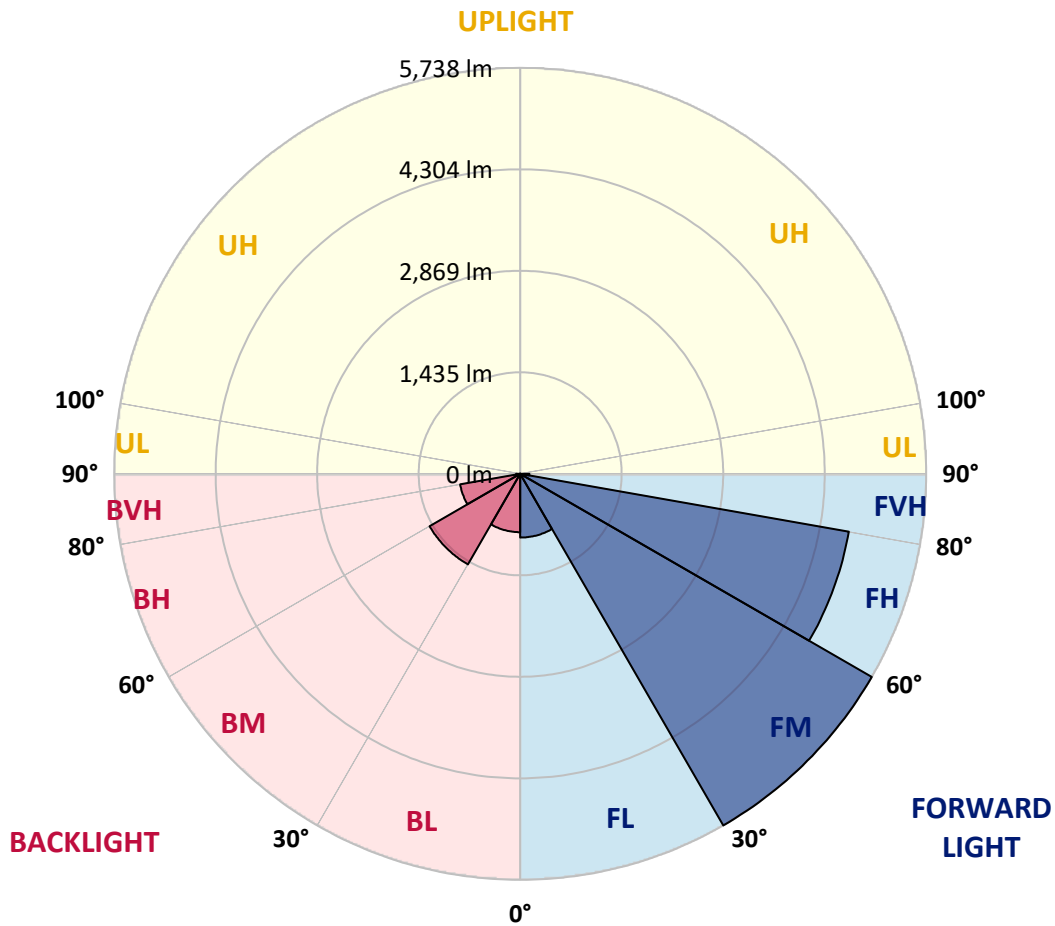
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	901.0	6.1			
FM (30°-60°)	5738.4	39.0			
FH (60°-80°)	4716.8	32.1			G2/5000
FVH (80°-90°)	130.2	0.9			G2/225
BL (0°-30°)	825.2	5.6	B2/1000		
BM (30°-60°)	1478.6	10.1	B2/2500		
BH (60°-80°)	860.7	5.9	B2/1000		G2/1000
BVH (80°-90°)	56.0	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°	2051.8	2051.8	2051.8	2051.8	2051.8	2051.8	2051.8	2051.8	2051.8	2051.8
2.5°	1891.3	1890.6	1900.4	1903.4	1921.5	1934.3	1958.4	1984.0	2017.1	2020.9
5°	1782.1	1782.1	1793.4	1805.5	1828.8	1854.4	1891.3	1935.8	1993.0	2002.0
7.5°	1689.5	1695.5	1705.3	1728.6	1755.7	1792.7	1849.1	1912.4	1987.7	2002.0
10°	1614.9	1621.7	1633.7	1652.6	1693.2	1744.4	1818.3	1899.6	2000.5	2023.1
12.5°	1591.5	1598.3	1605.1	1619.4	1657.1	1717.3	1805.5	1905.6	2031.4	2054.0
15°	1645.8	1654.1	1648.8	1645.0	1664.6	1719.6	1811.5	1927.5	2069.8	2102.2
17.5°	1770.8	1773.8	1761.8	1726.4	1723.4	1752.7	1840.1	1957.6	2118.0	2153.4
20°	1972.7	1967.4	1942.5	1872.5	1832.6	1826.5	1889.1	2002.8	2167.8	2205.4
22.5°	2246.8	2240.8	2191.1	2080.4	1991.5	1932.8	1959.9	2061.6	2223.5	2265.7
25°	2588.8	2580.5	2507.5	2356.8	2219.0	2073.6	2056.3	2139.1	2292.0	2331.2
27.5°	2988.0	2981.2	2902.1	2703.3	2504.4	2266.4	2176.0	2230.3	2363.6	2408.0
30°	3417.3	3436.9	3296.8	3082.9	2831.3	2518.0	2337.2	2342.5	2456.2	2496.2
32.5°	3922.0	3955.9	3787.2	3516.0	3172.5	2791.4	2540.6	2499.2	2591.1	2624.2
35°	4422.1	4460.5	4320.4	4020.7	3625.2	3113.8	2753.0	2679.2	2770.3	2806.5
37.5°	4854.5	4905.7	4833.4	4572.8	4109.5	3502.5	3030.2	2890.8	2991.0	3036.2
40°	5195.7	5274.0	5268.7	5106.1	4680.5	3974.0	3381.9	3152.2	3265.2	3314.2
42.5°	5472.9	5540.7	5599.4	5591.1	5276.3	4509.5	3795.5	3491.9	3577.8	3634.3
45°	5664.2	5736.5	5863.0	5999.4	5849.5	5082.7	4269.2	3894.9	3973.2	4058.3
47.5°	5835.2	5917.3	6081.5	6297.6	6336.1	5658.2	4788.2	4364.1	4435.7	4523.8
50°	5850.2	5921.0	6175.6	6482.2	6681.8	6211.0	5345.6	4890.6	4957.7	5051.8
52.5°	5486.4	5597.9	6042.3	6476.9	6840.7	6673.5	5899.2	5438.2	5513.5	5626.5
55°	4258.7	4422.1	5651.4	6275.0	6784.2	6972.5	6425.7	6020.5	6116.9	6235.1
57.5°	3668.2	3739.7	4486.2	5907.5	6526.6	7050.1	6870.1	6608.7	6763.9	6893.4
60°	3296.8	3356.3	3797.7	5335.8	6187.7	6927.3	7213.6	7157.1	7425.2	7579.6
62.5°	2899.1	2955.6	3357.1	4455.3	5753.8	6723.2	7430.5	7663.2	8103.1	8271.8
65°	2504.4	2552.6	2937.5	3743.5	5202.5	6519.1	7542.7	8100.8	8730.5	8905.3
67.5°	2064.6	2104.5	2468.3	3158.2	4532.1	6239.6	7598.4	8445.1	9276.6	9426.5
70°	1489.9	1520.7	1896.6	2497.7	3690.8	5759.1	7575.8	8689.1	9559.8	9679.6
72.5°	704.3	732.1	1173.5	1621.7	2606.9	4823.6	7118.6	8495.5	9272.1	9212.6
75°	375.9	400.0	674.1	889.5	1376.9	3306.6	5825.4	7318.2	7786.0	7496.8
77.5°	254.6	273.4	417.3	534.0	628.9	1569.7	3744.2	5066.9	4874.8	4397.3
80°	201.9	221.4	342.0	361.5	304.3	567.2	1547.1	2345.5	1684.9	1347.5
82.5°	155.2	177.0	287.7	262.1	165.7	232.7	450.4	741.9	431.6	328.4
85°	94.9	118.3	226.0	167.2	93.4	106.2	152.9	206.4	131.8	110.0
87.5°	48.2	67.8	114.5	61.0	42.2	24.9	40.7	40.7	34.6	30.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947221
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2051.8	0°	2051.8	2051.8	2051.8	2051.8	2051.8	2051.8	2051.8	2051.8	2051.8	2051.8
2041.2	2.5°	2059.3	2074.4	2100.0	2124.1	2142.9	2161.0	2179.1	2188.8	2191.9	2203.9
2052.5	5°	2083.4	2111.3	2161.0	2207.7	2237.1	2255.1	2267.9	2275.5	2277.0	2280.7
2083.4	7.5°	2127.8	2172.3	2241.6	2288.3	2310.1	2308.6	2303.3	2284.5	2277.0	2270.2
2128.6	10°	2190.4	2249.1	2334.2	2366.6	2353.0	2316.9	2270.2	2215.2	2189.6	2164.7
2190.4	12.5°	2267.9	2342.5	2426.1	2424.6	2357.6	2264.9	2156.5	2072.1	2018.6	1980.2
2266.4	15°	2362.1	2448.0	2512.0	2460.8	2313.9	2147.4	1988.5	1878.5	1830.3	1788.1
2343.3	17.5°	2459.3	2551.1	2580.5	2449.5	2203.9	1973.4	1793.4	1706.8	1659.3	1636.7
2426.1	20°	2554.2	2645.3	2621.2	2384.7	2036.7	1776.1	1615.6	1568.2	1558.4	1563.7
2506.7	22.5°	2654.3	2735.7	2629.5	2259.6	1823.5	1574.2	1486.1	1487.6	1509.4	1525.3
2591.1	25°	2756.8	2811.8	2607.6	2078.9	1594.6	1425.8	1404.0	1428.1	1471.0	1501.9
2686.0	27.5°	2855.4	2879.5	2560.2	1855.2	1398.0	1319.6	1323.4	1373.1	1437.9	1480.8
2801.2	30°	2966.9	2939.8	2469.0	1603.6	1261.6	1228.5	1260.1	1318.1	1382.9	1421.3
2946.6	32.5°	3092.7	2991.8	2324.4	1370.9	1165.2	1155.4	1207.4	1245.1	1273.7	1285.0
3139.4	35°	3249.4	3064.8	2139.1	1207.4	1078.6	1102.0	1151.7	1132.8	1121.5	1115.5
3398.5	37.5°	3452.7	3163.5	1922.2	1101.2	1008.6	1063.5	1083.9	1025.1	980.7	958.8
3712.6	40°	3697.5	3308.1	1713.6	1019.1	964.1	1030.4	995.0	924.2	867.7	836.8
4065.9	42.5°	3969.4	3459.5	1538.1	957.3	939.3	1003.3	929.5	845.1	754.0	744.2
4486.9	45°	4254.9	3615.4	1418.3	909.9	927.2	979.9	891.8	755.5	690.7	730.6
4909.5	47.5°	4540.4	3758.5	1346.0	874.5	921.2	953.6	858.7	705.8	659.8	717.8
5362.1	50°	4858.2	3886.6	1313.6	848.9	914.4	943.0	809.0	693.0	627.4	665.8
5830.6	52.5°	5173.8	3986.0	1289.5	823.3	904.6	934.7	784.9	677.9	588.3	590.5
6302.2	55°	5488.7	4050.8	1263.1	789.4	882.8	916.7	782.6	661.3	558.9	548.3
6800.8	57.5°	5824.6	4087.7	1230.8	751.7	845.1	870.7	780.3	648.5	549.8	532.5
7310.7	60°	6166.6	4141.9	1188.6	705.8	794.6	815.7	775.1	644.0	544.6	515.2
7791.3	62.5°	6473.1	4160.8	1138.1	662.1	729.9	761.5	763.8	640.2	530.3	479.8
8190.5	65°	6674.2	4079.4	1050.0	612.4	659.8	705.8	741.9	627.4	504.7	454.2
8387.8	67.5°	6666.0	3847.4	912.1	548.3	592.0	644.0	710.3	605.6	473.8	422.6
8238.7	70°	6355.6	3389.5	737.4	473.8	517.5	577.7	669.6	573.2	436.9	387.9
7325.8	72.5°	5451.0	2652.8	535.5	386.4	430.8	509.2	616.9	534.0	399.2	357.0
5414.1	75°	3894.1	1678.9	363.1	296.8	335.2	431.6	551.4	488.1	364.6	358.5
2711.6	77.5°	1989.2	802.2	240.3	216.9	233.5	340.5	463.2	436.1	369.8	296.0
771.3	80°	647.0	296.0	151.4	147.6	155.2	226.7	358.5	357.8	280.2	201.1
186.8	82.5°	206.4	127.3	98.7	94.9	91.1	142.4	250.1	283.2	189.1	127.3
67.0	85°	82.1	76.1	58.0	53.5	38.4	67.0	131.1	188.3	140.9	91.9
17.3	87.5°	30.1	30.1	15.8	11.3	8.3	22.6	35.4	56.5	80.6	47.5
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>
2051.8
2210.7
2286.8
2271.7
2157.2
1971.2
1783.6
1643.5
1561.4
1529.0
1510.2
1491.4
1430.4
1291.0
1121.5
964.1
839.1
754.0
751.7
744.9
694.5
606.3
555.9
534.8
517.5
479.8
454.2
424.8
392.4
354.8
338.2
263.6
177.8
126.5
94.2
46.7
0.0

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