

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: P948603

Luminaire Tested: **GALN-SB3C-835-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3C-835-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21228 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

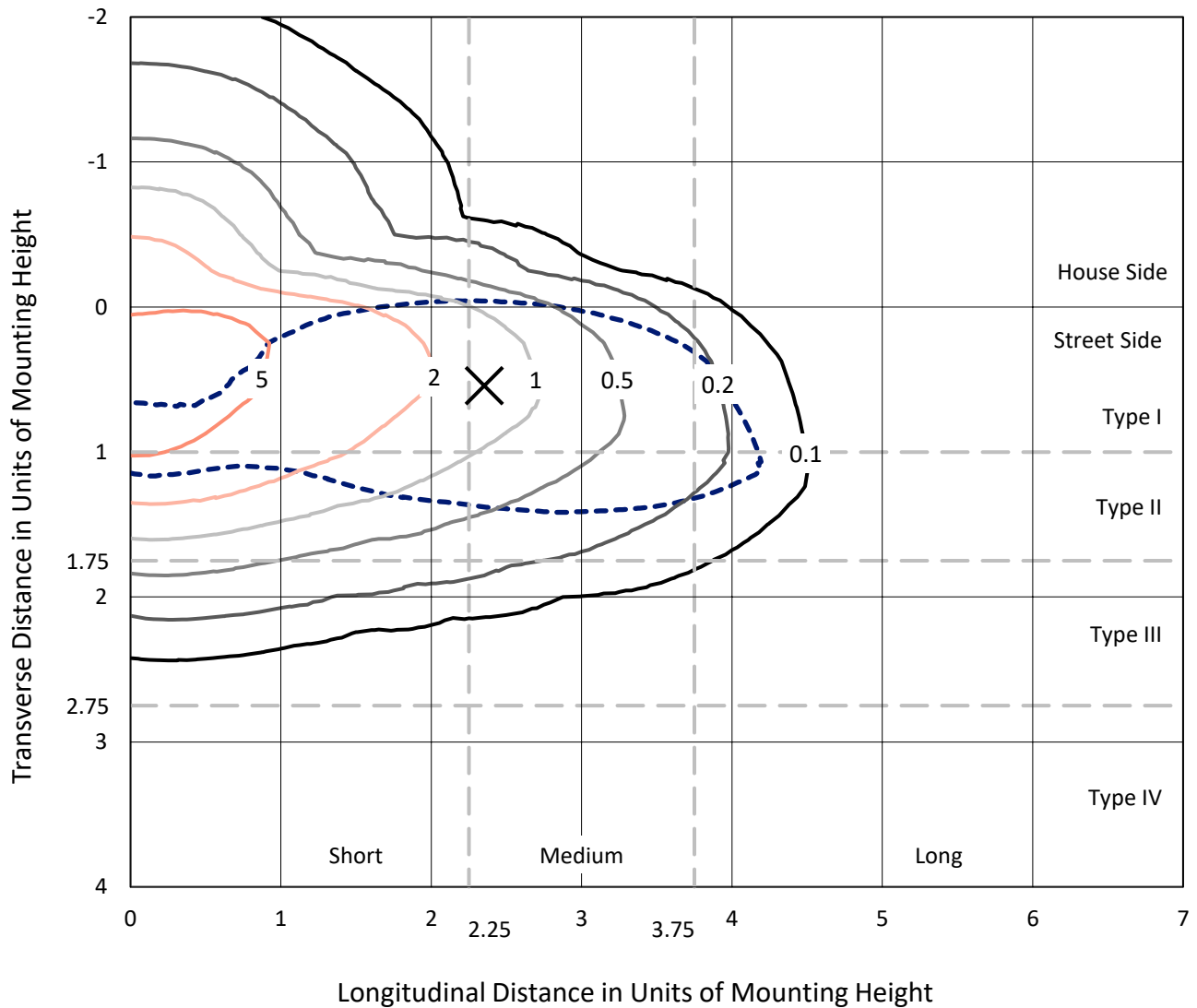
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

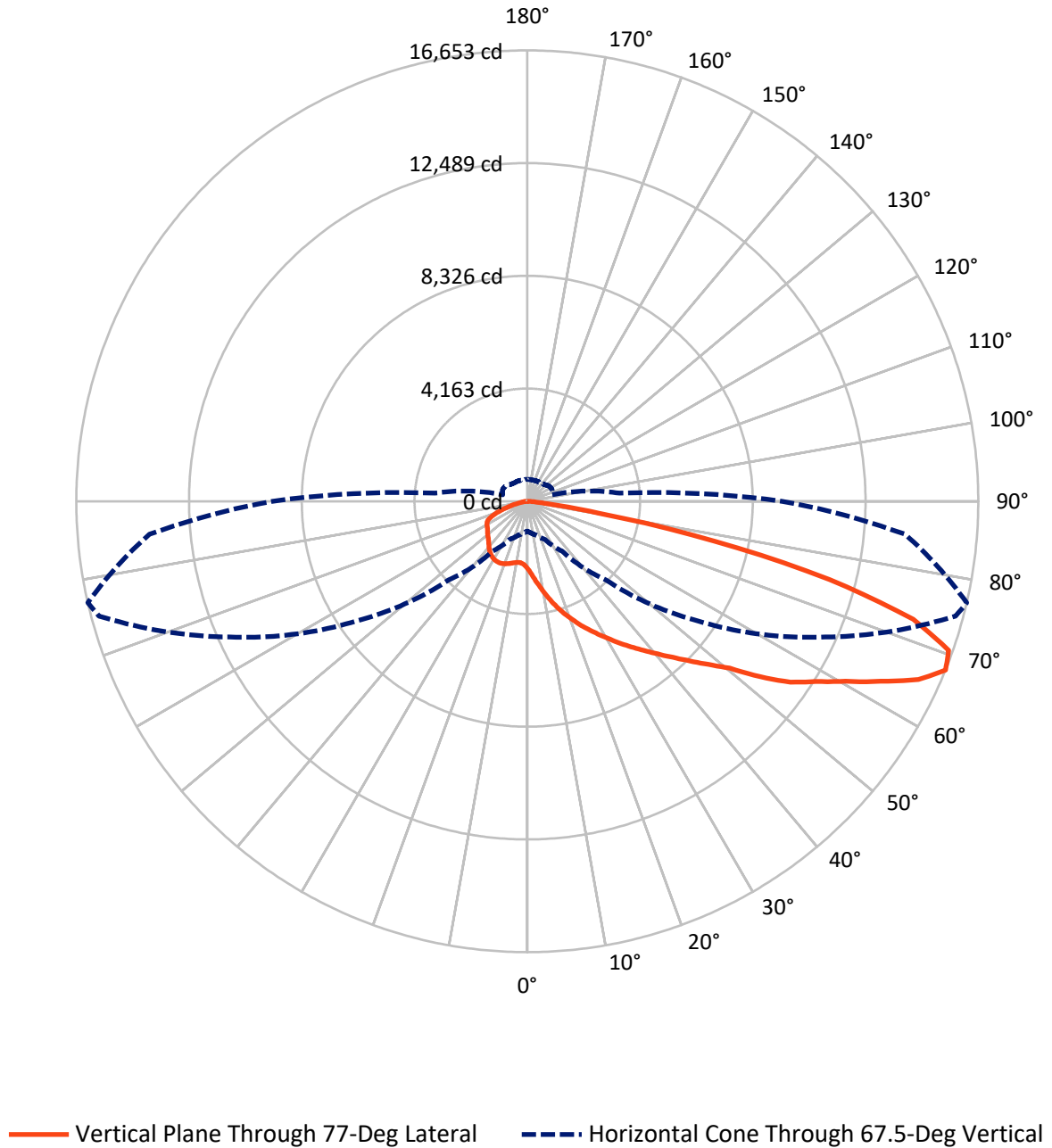
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4015.5	0.0	4015.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	17212.5	0.0	17212.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	21228.0	0.0	21228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.0	1.3
10°-20°	959.1	4.5
20°-30°	1810.9	8.5
30°-40°	2917.3	13.7
40°-50°	3990.4	18.8
50°-60°	4501.2	21.2
60°-70°	4201.3	19.8
70°-80°	2303.0	10.8
80°-90°	277.8	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°	21228.0	100.0
0°-180°	21228.0	100.0

Coefficient of Utilization



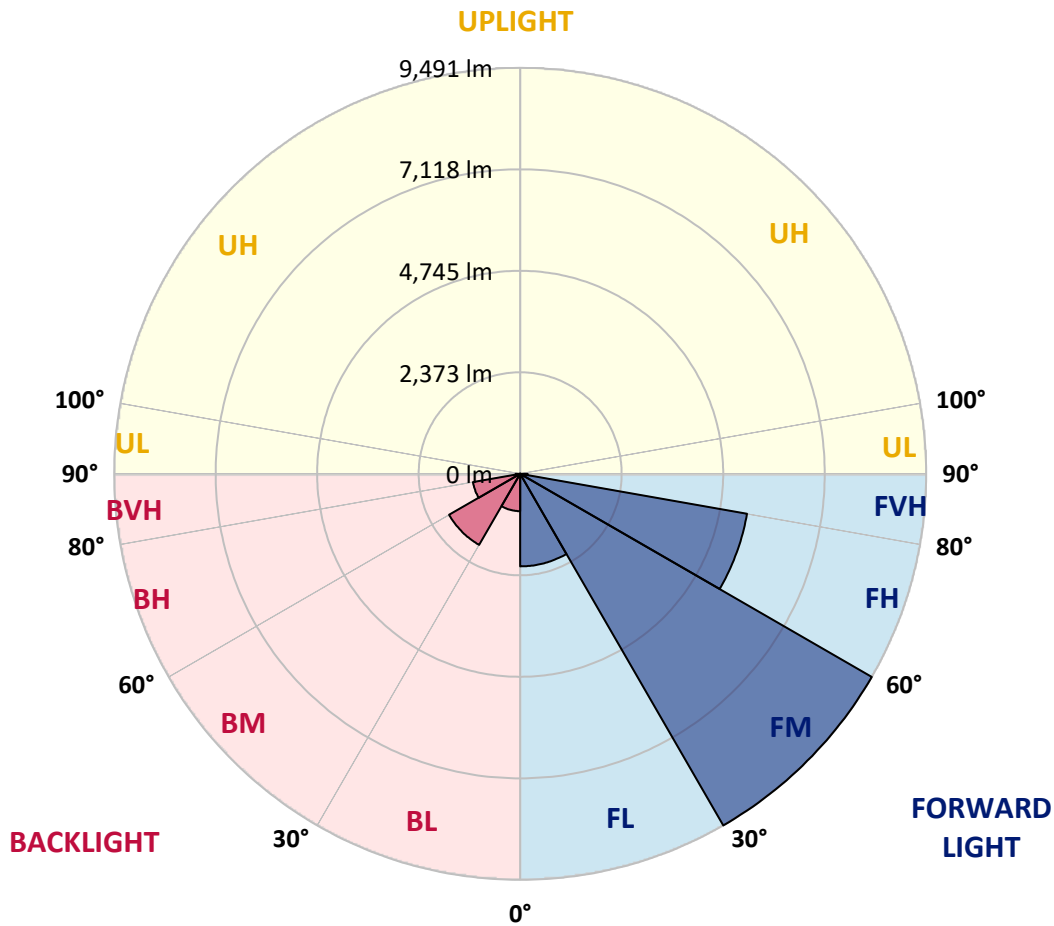
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2163.9	10.2			
FM (30°-60°)	9490.8	44.7			
FH (60°-80°)	5384.0	25.4			G3/7500
FVH (80°-90°)	173.7	0.8			G2/225
BL (0°-30°)	873.1	4.1	B2/1000		
BM (30°-60°)	1918.1	9.0	B2/2500		
BH (60°-80°)	1120.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	104.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7
2.5°	3118.6	3140.5	3113.1	3113.1	3021.1	2972.8	2880.8	2810.7	2684.7	2662.7
5°	3686.2	3713.6	3675.2	3658.8	3550.3	3450.6	3296.1	3143.8	2919.2	2896.1
7.5°	4125.6	4160.7	4126.7	4109.2	4012.7	3901.0	3720.2	3507.6	3190.9	3146.0
10°	4483.9	4489.4	4478.4	4485.0	4409.4	4317.4	4132.2	3884.5	3489.0	3427.6
12.5°	4686.6	4711.8	4733.8	4773.2	4760.1	4703.1	4536.5	4240.7	3804.5	3725.6
15°	4782.0	4825.8	4875.1	4966.1	5039.5	5053.7	4926.6	4623.1	4125.6	4030.3
17.5°	4815.9	4857.6	4935.4	5066.9	5224.7	5331.0	5274.0	4994.6	4443.4	4333.8
20°	4988.0	5000.0	5047.2	5172.1	5343.0	5519.4	5562.2	5351.8	4757.9	4634.0
22.5°	5356.2	5332.1	5345.2	5402.2	5524.9	5695.9	5793.4	5667.4	5081.1	4938.7
25°	5964.3	5894.2	5824.1	5758.3	5820.8	5917.2	6027.9	5982.9	5419.7	5238.9
27.5°	6732.5	6647.0	6492.5	6276.6	6201.0	6235.0	6284.3	6275.5	5733.1	5550.1
30°	7488.5	7388.8	7204.7	6892.4	6693.0	6603.2	6565.9	6540.7	6073.9	5878.9
32.5°	8092.3	8013.4	7832.6	7483.1	7193.8	7040.4	6916.6	6826.7	6430.0	6235.0
35°	8620.5	8547.1	8340.0	7958.6	7644.1	7480.9	7318.7	7126.9	6800.4	6603.2
37.5°	9102.6	9029.2	8745.4	8348.7	8032.1	7919.2	7774.5	7449.1	7171.9	6985.6
40°	9407.3	9390.8	9125.6	8676.4	8347.6	8291.8	8243.5	7822.8	7583.9	7410.7
42.5°	9485.1	9521.2	9310.8	8941.6	8628.2	8583.2	8696.1	8245.7	8046.3	7880.8
45°	9297.7	9401.8	9263.7	9012.8	8827.6	8803.5	9097.2	8708.1	8558.0	8406.8
47.5°	8823.2	8999.6	8942.6	8907.6	8881.3	8985.4	9450.0	9199.1	9137.7	9006.2
50°	7865.5	8199.7	8299.4	8520.8	8775.0	9126.7	9771.1	9734.9	9814.9	9682.3
52.5°	6209.8	6670.0	7248.6	7803.0	8448.5	9079.6	10123.9	10504.1	10841.6	10769.3
55°	5126.1	5333.2	5778.0	6794.9	7815.1	8881.3	10282.8	11125.4	11860.7	11796.1
57.5°	4293.3	4478.4	4752.4	5601.6	6857.4	8430.9	10381.4	11504.6	12558.7	12552.1
60°	3400.2	3596.3	3876.9	4478.4	5738.6	7652.9	10359.5	11936.3	13449.6	13504.4
62.5°	2392.1	2608.0	2919.2	3480.2	4595.7	6644.8	9912.4	12248.6	14498.2	14647.3
65°	1572.4	1714.9	1949.4	2433.7	3424.3	5348.5	9058.8	12289.2	15620.3	15872.3
67.5°	1102.4	1157.1	1295.2	1558.2	2257.3	4101.5	7698.9	11869.5	16368.7	16652.5
70°	860.2	887.6	957.7	1062.9	1417.9	2758.1	5899.7	10778.1	16208.8	16504.6
72.5°	742.9	769.2	795.5	808.7	951.1	1702.8	3996.3	9011.7	14702.1	14902.6
75°	673.9	680.5	702.4	698.0	725.4	1104.5	2306.6	6565.9	11599.9	11530.9
77.5°	566.5	575.3	611.4	606.0	644.3	755.0	1197.7	4237.4	7520.3	7051.3
80°	480.0	484.3	523.8	517.2	559.9	546.8	611.4	2159.8	3189.8	2702.2
82.5°	166.6	206.0	400.0	412.0	427.4	330.9	352.8	881.0	974.1	746.2
85°	81.1	86.6	203.8	289.3	288.2	166.6	172.0	314.5	306.8	241.1
87.5°	13.1	16.4	24.1	112.9	89.9	43.8	59.2	61.4	63.6	54.8
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°
2490.7	0°	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7
2579.5	2.5°	2518.1	2463.3	2348.3	2242.0	2158.7	2078.7	2033.8	1995.4	1973.5	1969.1
2700.0	5°	2586.0	2473.2	2263.9	2087.5	1972.4	1886.9	1842.0	1813.5	1799.3	1790.5
2862.2	7.5°	2683.6	2518.1	2220.0	2019.5	1899.0	1837.6	1814.6	1810.2	1809.1	1810.2
3058.3	10°	2818.3	2591.5	2215.7	2003.1	1902.3	1868.3	1867.2	1868.3	1872.7	1873.8
3272.0	12.5°	2964.1	2667.1	2233.2	2017.3	1943.9	1925.3	1922.0	1920.9	1924.2	1926.4
3487.9	15°	3123.0	2766.8	2262.8	2048.0	1989.9	1970.2	1966.9	1960.3	1959.3	1958.2
3714.7	17.5°	3286.2	2865.5	2295.7	2080.9	2019.5	1992.1	1980.1	1964.7	1952.7	1949.4
3949.2	20°	3451.7	2963.0	2318.7	2097.3	2021.7	1983.4	1959.3	1933.0	1912.1	1900.1
4185.9	22.5°	3628.1	3064.9	2332.9	2092.9	2002.0	1949.4	1905.6	1874.9	1843.1	1822.3
4424.8	25°	3800.2	3153.6	2331.8	2069.9	1963.6	1896.8	1840.9	1801.5	1757.6	1735.7
4671.3	27.5°	3965.6	3233.6	2304.4	2029.4	1908.8	1834.3	1767.5	1720.4	1677.6	1656.8
4920.0	30°	4136.6	3300.5	2261.7	1970.2	1844.2	1762.0	1688.6	1648.1	1609.7	1590.0
5183.0	32.5°	4306.4	3361.8	2201.4	1896.8	1769.7	1690.8	1618.5	1581.2	1558.2	1558.2
5465.7	35°	4486.1	3404.6	2121.4	1811.3	1690.8	1615.2	1558.2	1536.3	1534.1	1520.9
5764.9	37.5°	4675.7	3432.0	2023.9	1723.7	1613.0	1541.8	1524.2	1497.9	1476.0	1447.5
6093.6	40°	4875.1	3459.4	1906.7	1632.7	1530.8	1491.4	1483.7	1448.6	1386.2	1316.0
6466.2	42.5°	5117.3	3478.0	1785.0	1541.8	1444.2	1431.1	1442.0	1381.8	1282.1	1229.5
6915.5	45°	5397.8	3508.7	1673.3	1451.9	1355.5	1355.5	1401.5	1322.6	1240.4	1207.5
7428.3	47.5°	5761.6	3579.9	1569.2	1353.3	1273.3	1295.2	1311.6	1251.4	1205.4	1164.8
8052.9	50°	6287.6	3750.8	1461.8	1253.6	1210.8	1254.7	1231.7	1196.6	1142.9	1110.0
9045.6	52.5°	6940.7	3851.7	1366.4	1163.7	1157.1	1201.0	1168.1	1135.2	1094.7	1050.9
9798.4	55°	7385.5	3870.3	1286.4	1098.0	1121.0	1116.6	1104.5	1075.0	1053.0	995.0
10541.4	57.5°	7883.0	3907.5	1220.7	1058.5	1098.0	1049.8	1045.4	1020.2	991.7	952.2
11447.6	60°	8478.0	3965.6	1163.7	1043.2	1078.2	1005.9	984.0	974.1	945.7	925.9
12537.9	62.5°	9126.7	4018.2	1105.6	1045.4	1055.2	963.2	930.3	927.0	909.5	902.9
13561.4	65°	9569.4	3874.7	1033.3	1043.2	1019.1	919.4	877.7	876.6	862.4	860.2
14005.1	67.5°	9414.9	3419.9	935.8	1012.5	981.8	875.5	829.5	825.1	806.5	807.6
13541.6	70°	8641.3	2771.2	801.0	936.9	935.8	836.1	779.1	764.9	739.7	744.0
11774.1	72.5°	7190.5	2053.5	620.2	810.9	862.4	799.9	721.0	698.0	666.2	670.6
8691.7	75°	5192.9	1396.0	451.5	616.9	750.6	757.2	664.0	624.6	586.2	592.8
4837.9	77.5°	2657.3	791.2	332.0	425.2	589.5	688.1	612.5	559.9	551.2	612.5
1394.9	80°	866.8	396.7	230.1	298.1	386.8	563.2	536.9	476.7	474.5	488.7
292.6	82.5°	258.6	167.7	147.9	196.1	213.7	431.7	463.5	360.5	310.1	326.5
97.5	85°	88.8	81.1	84.4	97.5	101.9	253.1	324.4	238.9	225.7	248.7
21.9	87.5°	20.8	28.5	24.1	21.9	21.9	61.4	126.0	99.7	138.1	92.0
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

<u>180°</u>
2490.7
1969.1
1789.4
1813.5
1874.9
1927.5
1957.1
1952.7
1904.5
1823.4
1735.7
1655.7
1588.9
1559.3
1517.7
1443.1
1306.2
1230.6
1213.0
1163.7
1106.7
1042.1
996.1
939.1
931.4
902.9
859.1
807.6
748.4
669.5
595.0
603.8
419.7
337.5
245.5
88.8
0.0

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