

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: P939765

Luminaire Tested: **GALN-SB2C-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14840 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

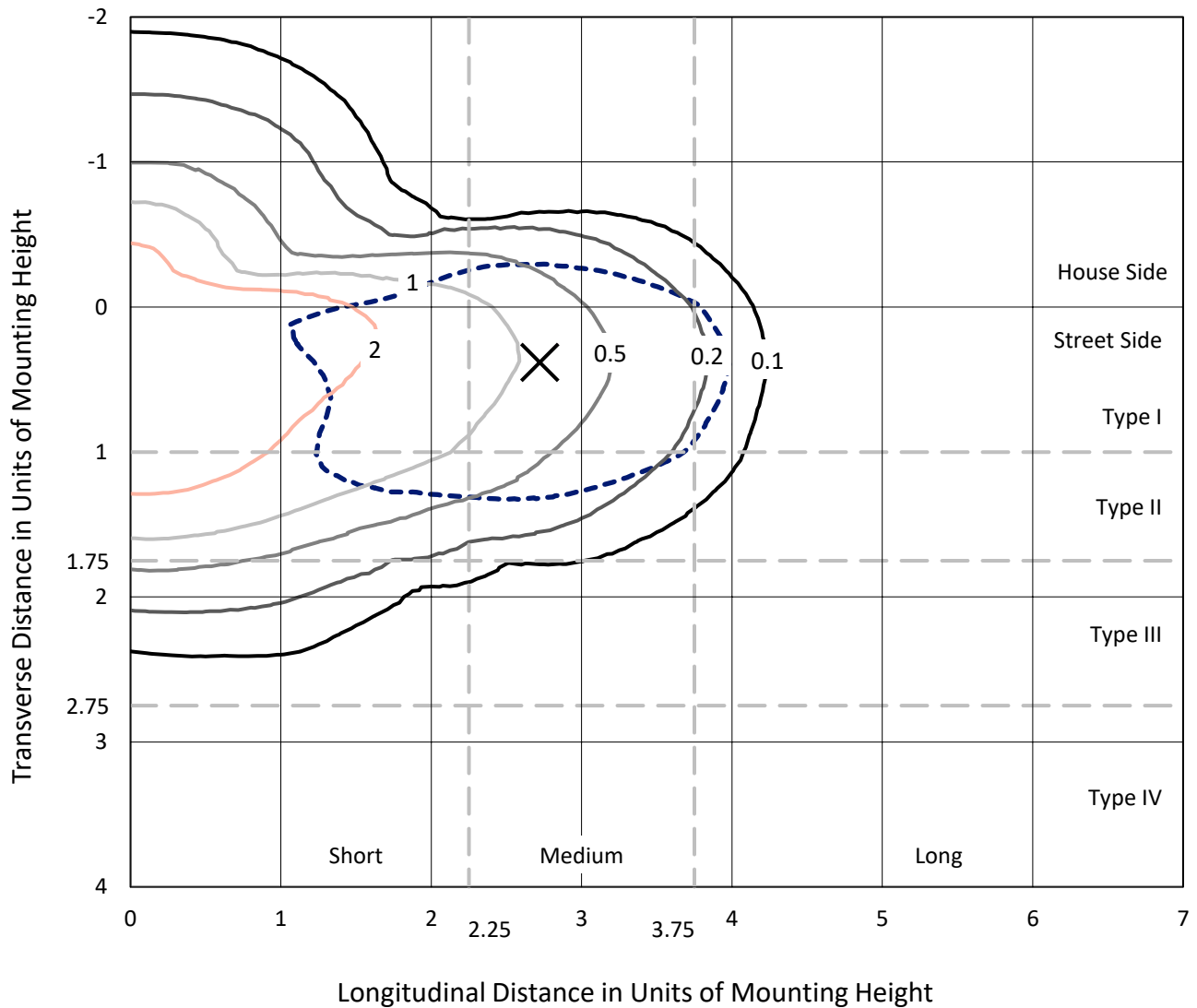
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

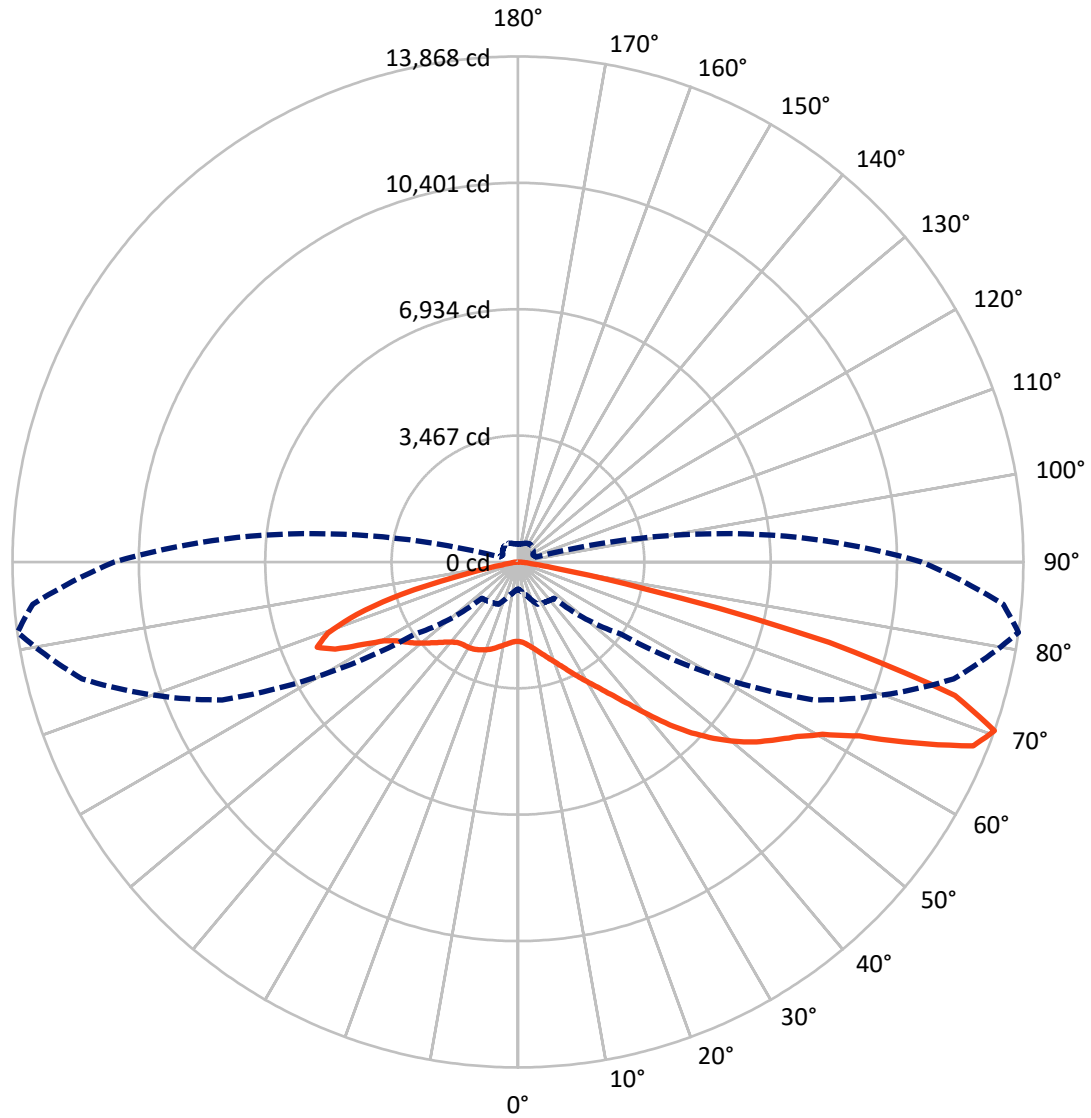
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3658.4	0.0	3658.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	11181.6	0.0	11181.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	14840.0	0.0	14840.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	1.4
10°-20°	590.2	4.0
20°-30°	987.4	6.7
30°-40°	1542.5	10.4
40°-50°	2456.6	16.6
50°-60°	3418.7	23.0
60°-70°	3576.1	24.1
70°-80°	1869.1	12.6
80°-90°	194.1	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°	14840.0	100.0
0°-180°	14840.0	100.0

Coefficient of Utilization



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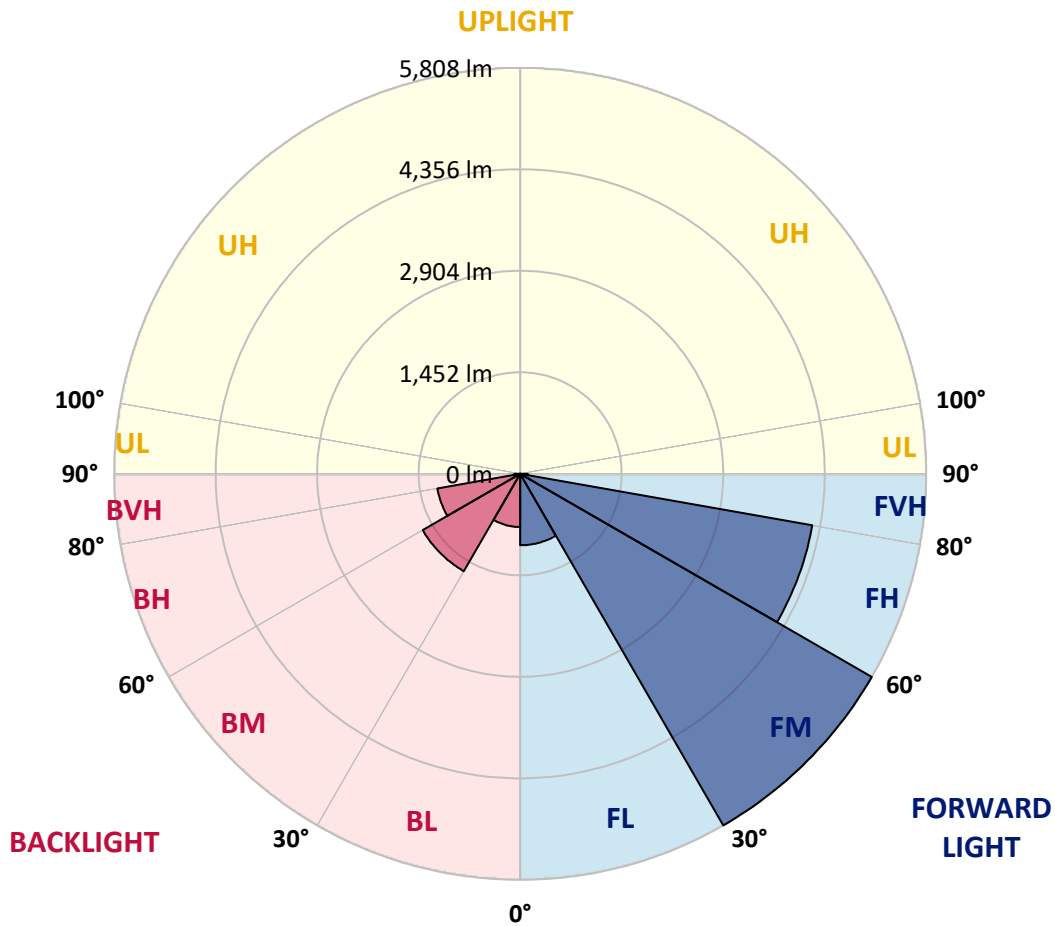
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1021.9	6.9			
FM (30°-60°)	5808.2	39.1			
FH (60°-80°)	4242.8	28.6			G2/5000
FVH (80°-90°)	108.7	0.7			G2/225
BL (0°-30°)	761.1	5.1	B2/1000		
BM (30°-60°)	1609.6	10.8	B2/2500		
BH (60°-80°)	1202.3	8.1	B3/2500		G3/2500
BVH (80°-90°)	85.4	0.6			G1/100
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°	82°
0°	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7
2.5°	2227.7	2240.3	2236.4	2232.4	2232.4	2226.9	2226.1	2218.3	2212.0	2201.7
5°	2256.0	2269.4	2267.9	2271.0	2281.2	2283.6	2286.0	2281.2	2268.6	2256.0
7.5°	2230.9	2245.8	2250.5	2269.4	2300.9	2329.3	2350.5	2359.2	2347.4	2329.3
10°	2145.8	2162.3	2178.9	2223.8	2279.7	2346.6	2403.3	2437.2	2434.8	2417.5
12.5°	1973.4	1990.7	2026.1	2113.5	2215.9	2334.0	2439.5	2510.4	2534.8	2522.2
15°	1835.6	1850.5	1877.3	1967.1	2100.1	2279.7	2452.9	2590.7	2652.9	2645.8
17.5°	1831.6	1837.9	1854.4	1897.0	1999.3	2194.6	2438.7	2669.5	2788.4	2787.6
20°	1900.9	1903.3	1912.7	1921.4	1979.7	2130.1	2402.5	2734.8	2940.3	2940.3
22.5°	1997.0	1995.4	2004.9	1997.0	2025.3	2124.5	2379.7	2792.3	3109.6	3122.2
25°	2141.1	2133.2	2130.8	2112.7	2118.2	2175.7	2404.9	2857.7	3310.4	3336.4
27.5°	2333.2	2320.6	2312.0	2270.2	2256.0	2281.2	2482.0	2936.4	3534.1	3579.0
30°	2583.6	2560.8	2548.2	2475.7	2424.6	2428.5	2598.6	3041.1	3768.0	3840.4
32.5°	2925.4	2889.9	2856.1	2737.2	2643.5	2612.8	2749.0	3186.0	4021.5	4137.3
35°	3308.1	3279.7	3243.5	3060.0	2915.9	2845.1	2952.2	3388.4	4318.4	4501.9
37.5°	3676.6	3652.2	3669.5	3422.3	3236.4	3133.3	3218.3	3660.1	4684.6	4955.4
40°	4057.7	4038.8	4041.2	3805.0	3588.4	3472.7	3541.2	4001.0	5104.3	5494.8
42.5°	4471.9	4457.8	4410.5	4201.1	3957.7	3849.9	3912.8	4394.8	5554.7	6109.1
45°	4935.7	4927.1	4883.0	4642.8	4364.1	4242.8	4327.8	4829.4	6007.5	6687.0
47.5°	5336.6	5343.6	5338.1	5135.8	4846.8	4668.8	4770.4	5283.0	6428.8	7230.4
50°	5529.5	5566.5	5620.8	5557.8	5378.3	5197.2	5216.9	5720.8	6830.4	7739.9
52.5°	5428.7	5498.8	5646.8	5747.6	5816.9	5779.1	5726.4	6155.5	7208.3	8199.7
55°	5053.1	5151.5	5397.2	5640.5	5994.1	6268.9	6338.2	6637.4	7576.9	8604.5
57.5°	4368.8	4528.6	4749.1	5241.3	5836.6	6505.9	7051.6	7306.0	7967.4	9036.8
60°	3195.5	3409.7	3683.7	4416.0	5285.4	6379.1	7658.8	8332.8	8522.6	9596.7
62.5°	2045.0	2177.3	2429.3	3119.1	4118.4	5729.5	7844.6	9616.4	9463.6	10514.8
65°	1400.1	1485.1	1715.9	2103.3	2662.4	4264.8	7346.9	10578.6	10958.2	11970.1
67.5°	1017.4	1082.0	1278.8	1618.2	1734.8	2523.8	5701.2	10534.5	12411.0	13469.4
70°	741.8	787.5	952.8	1278.8	1334.7	1404.0	3453.8	8954.9	12379.5	13867.8
72.5°	549.6	581.1	692.2	992.2	1080.4	948.1	1709.6	6508.3	10637.7	12543.3
75°	397.7	421.3	503.2	759.1	864.6	722.1	852.8	3803.4	7420.2	8823.4
77.5°	304.0	322.1	375.6	555.9	692.2	541.8	529.2	1749.7	3518.3	3535.7
80°	244.1	255.9	285.1	391.4	530.7	405.5	344.9	706.3	1111.9	941.0
82.5°	179.5	199.2	241.0	274.8	379.6	279.5	210.2	356.7	422.9	363.8
85°	102.4	115.8	145.7	196.9	242.5	170.9	120.5	158.3	196.9	161.4
87.5°	36.2	47.2	51.2	77.2	105.5	70.9	46.5	45.7	64.6	48.0
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°
2175.7	0°	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7	2175.7
2199.4	2.5°	2191.5	2187.5	2171.8	2150.5	2128.5	2107.2	2100.1	2085.2	2074.9	2069.4
2250.5	5°	2235.6	2223.0	2186.0	2138.7	2089.1	2035.6	1997.8	1963.1	1937.9	1914.3
2320.6	7.5°	2298.6	2276.5	2212.7	2130.1	2041.9	1952.9	1886.7	1836.3	1802.5	1780.4
2402.5	10°	2371.8	2337.9	2240.3	2116.7	1980.4	1852.9	1774.9	1731.6	1710.3	1698.5
2496.2	12.5°	2456.1	2408.0	2268.6	2086.0	1886.7	1741.1	1687.5	1674.9	1675.7	1676.5
2614.3	15°	2560.0	2493.1	2291.5	2019.0	1764.7	1655.2	1645.8	1666.2	1687.5	1697.7
2748.2	17.5°	2677.3	2582.8	2295.4	1908.8	1645.0	1600.1	1630.0	1674.1	1706.4	1720.6
2897.8	20°	2803.3	2674.2	2267.1	1752.9	1546.6	1555.2	1608.8	1665.5	1700.9	1719.0
3068.7	22.5°	2947.4	2771.8	2199.4	1589.1	1466.2	1506.4	1569.4	1624.5	1661.5	1679.6
3269.5	25°	3112.0	2881.3	2093.0	1451.3	1396.9	1451.3	1514.3	1559.9	1589.9	1606.4
3493.9	27.5°	3294.7	2995.5	1951.3	1341.8	1336.3	1394.6	1446.5	1482.0	1497.7	1510.3
3732.5	30°	3478.2	3099.4	1779.6	1259.1	1283.5	1338.7	1375.7	1391.4	1396.2	1398.5
3998.7	32.5°	3676.6	3189.2	1599.3	1190.6	1233.1	1284.3	1306.4	1313.5	1291.4	1276.5
4321.5	35°	3916.8	3285.2	1422.9	1136.3	1183.5	1227.6	1234.7	1228.4	1202.4	1171.7
4726.3	37.5°	4213.7	3404.9	1282.0	1097.7	1137.1	1166.2	1157.6	1156.0	1158.3	1122.1
5212.9	40°	4577.5	3560.9	1178.8	1067.8	1099.3	1105.6	1081.2	1094.6	1106.4	1051.2
5746.8	42.5°	4981.4	3749.1	1113.5	1047.3	1067.8	1052.8	1015.0	1030.0	1028.4	956.0
6283.1	45°	5393.3	3953.8	1090.6	1032.3	1038.6	1008.7	967.0	970.9	937.9	872.5
6797.3	47.5°	5802.7	4173.5	1104.8	1019.8	1002.4	968.6	936.3	919.0	870.1	821.3
7290.2	50°	6204.3	4404.2	1156.8	994.6	952.8	933.1	909.5	878.8	826.8	785.1
7756.4	52.5°	6576.8	4636.5	1215.0	952.8	890.6	902.4	887.5	852.0	800.8	758.3
8197.4	55°	6929.6	4868.8	1237.9	895.3	832.3	875.6	867.0	801.6	740.2	705.6
8658.8	57.5°	7313.9	5148.4	1212.7	822.1	785.1	844.9	811.9	739.4	704.0	678.0
9259.6	60°	7846.2	5587.0	1158.3	731.5	740.2	799.3	742.6	712.6	674.1	644.9
10160.5	62.5°	8730.5	6405.1	1070.9	641.8	687.4	731.5	709.5	679.6	640.2	611.9
11700.7	65°	10037.6	7542.2	906.4	571.7	628.4	665.4	674.1	644.1	603.2	573.3
13050.4	67.5°	11140.1	8255.6	685.9	513.4	567.8	611.9	636.3	607.1	563.8	534.7
13366.2	70°	11079.4	7737.5	523.7	455.9	514.2	559.1	590.6	567.8	521.3	493.7
12140.9	72.5°	9840.8	6472.9	423.6	397.7	459.9	504.0	541.8	524.4	477.2	450.4
8894.3	75°	7229.6	4594.8	338.6	338.6	392.2	446.5	488.2	477.2	433.9	415.0
3734.1	77.5°	3047.4	1927.7	265.4	281.1	326.0	383.5	435.5	439.4	401.6	425.2
987.5	80°	810.3	531.5	202.4	221.3	255.9	316.6	378.8	377.2	336.2	314.2
367.0	82.5°	308.7	209.5	144.1	155.9	185.1	242.5	300.0	309.5	268.5	232.3
144.1	85°	118.9	89.8	89.0	93.7	107.9	160.6	226.8	234.7	202.4	171.7
40.2	87.5°	30.7	26.8	33.1	31.5	49.6	85.8	129.9	134.7	123.6	71.7
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>
2175.7
2075.7
1923.7
1785.2
1701.7
1678.1
1697.0
1723.7
1723.7
1684.4
1611.1
1515.1
1404.0
1281.2
1173.3
1124.5
1052.8
955.2
874.9
821.3
781.9
759.1
702.4
675.6
643.3
611.9
574.8
535.5
496.1
450.4
409.5
385.9
292.1
232.3
177.2
102.4
0.0

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