

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: P939825

Luminaire Tested: **GALN-SB2C-835-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939825
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-835-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13764 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

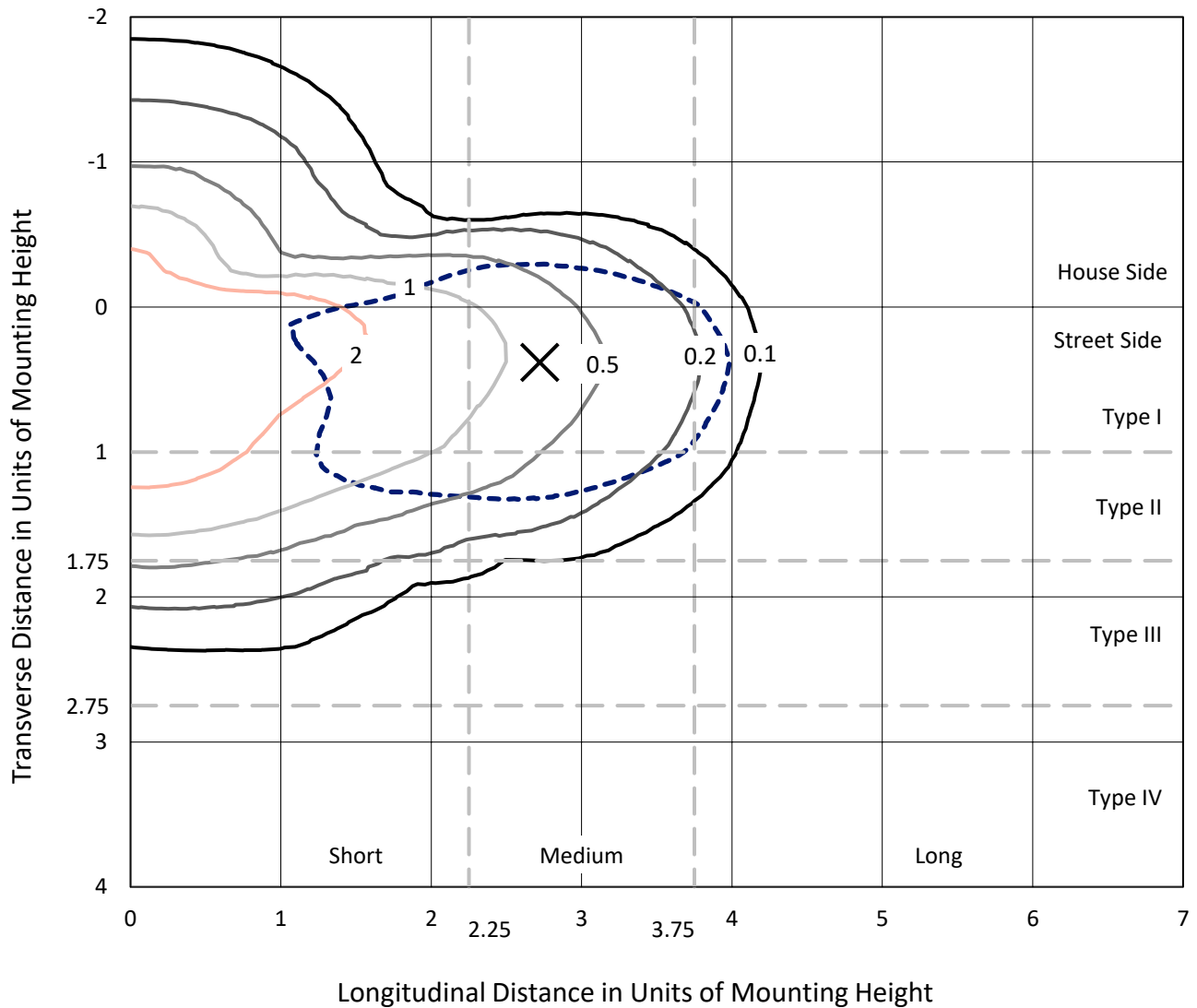
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

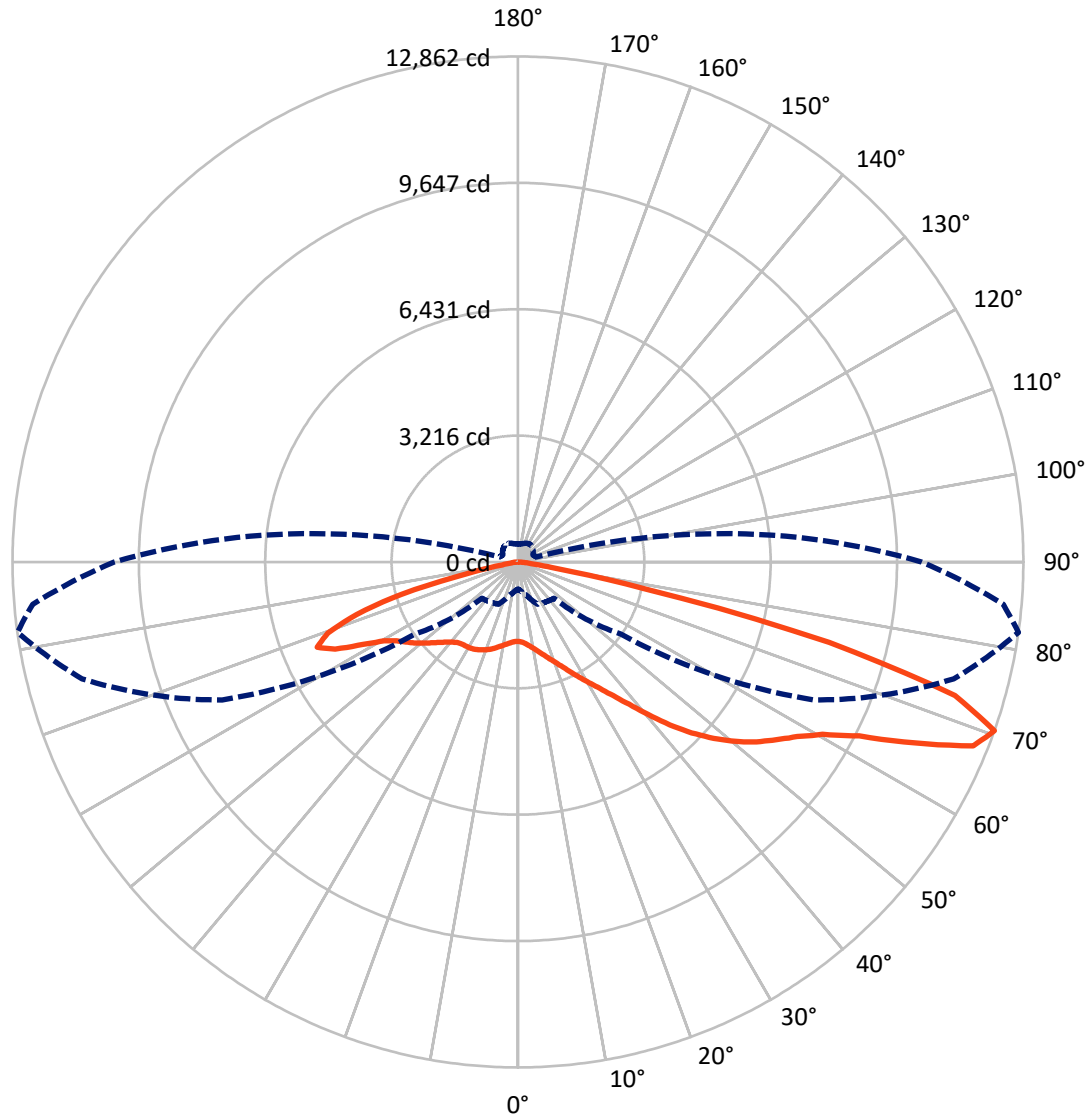
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	3393.2	0.0	3393.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	10370.8	0.0	10370.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	13764.0	0.0	13764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	1.4
10°-20°	547.4	4.0
20°-30°	915.8	6.7
30°-40°	1430.7	10.4
40°-50°	2278.5	16.6
50°-60°	3170.8	23.0
60°-70°	3316.8	24.1
70°-80°	1733.5	12.6
80°-90°	180.0	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°	13764.0	100.0
0°-180°	13764.0	100.0

Coefficient of Utilization



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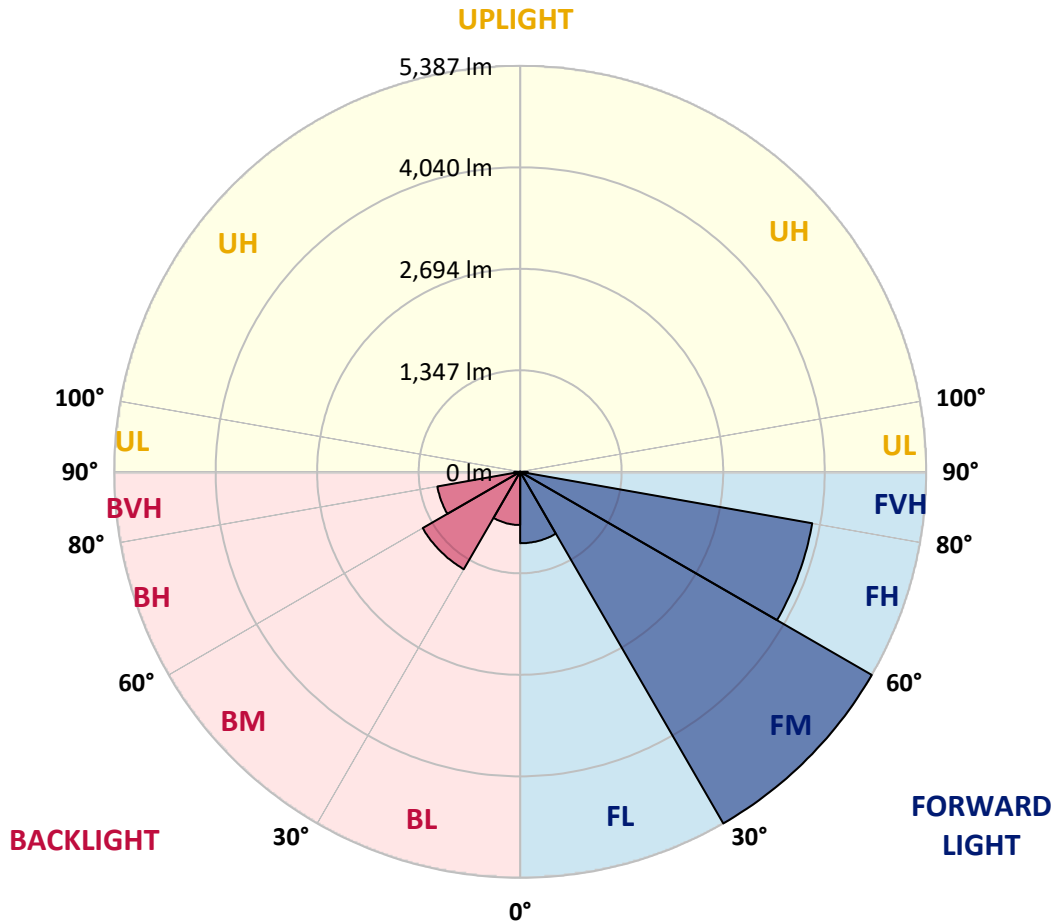
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	947.8	6.9			
FM (30°-60°)	5387.1	39.1			
FH (60°-80°)	3935.2	28.6			G2/5000
FVH (80°-90°)	100.8	0.7			G2/225
BL (0°-30°)	705.9	5.1	B2/1000		
BM (30°-60°)	1492.9	10.8	B2/2500		
BH (60°-80°)	1115.2	8.1	B3/2500		G3/2500
BVH (80°-90°)	79.2	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°	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0
2.5°	2066.2	2077.9	2074.2	2070.6	2070.6	2065.4	2064.7	2057.4	2051.6	2042.1
5°	2092.5	2104.9	2103.4	2106.3	2115.8	2118.0	2120.2	2115.8	2104.2	2092.5
7.5°	2069.1	2083.0	2087.4	2104.9	2134.1	2160.4	2180.1	2188.1	2177.2	2160.4
10°	1990.2	2005.6	2020.9	2062.5	2114.4	2176.5	2229.0	2260.5	2258.3	2242.2
12.5°	1830.3	1846.3	1879.2	1960.3	2055.2	2164.8	2262.6	2328.4	2351.0	2339.3
15°	1702.5	1716.3	1741.2	1824.4	1947.9	2114.4	2275.1	2402.9	2460.6	2454.0
17.5°	1698.8	1704.7	1720.0	1759.4	1854.4	2035.5	2261.9	2475.9	2586.2	2585.5
20°	1763.1	1765.3	1774.0	1782.1	1836.1	1975.6	2228.3	2536.5	2727.2	2727.2
22.5°	1852.2	1850.7	1859.5	1852.2	1878.5	1970.5	2207.1	2589.8	2884.2	2895.9
25°	1985.8	1978.5	1976.3	1959.5	1964.7	2018.0	2230.5	2650.5	3070.4	3094.5
27.5°	2164.0	2152.4	2144.3	2105.6	2092.5	2115.8	2302.1	2723.5	3277.8	3319.5
30°	2396.3	2375.1	2363.4	2296.2	2248.8	2252.4	2410.2	2820.6	3494.8	3561.9
32.5°	2713.3	2680.4	2649.0	2538.7	2451.8	2423.3	2549.7	2955.0	3729.9	3837.3
35°	3068.2	3041.9	3008.3	2838.2	2704.5	2638.8	2738.1	3142.7	4005.3	4175.4
37.5°	3410.0	3387.4	3403.5	3174.1	3001.8	2906.1	2985.0	3394.7	4344.9	4596.1
40°	3763.5	3746.0	3748.2	3529.1	3328.2	3220.9	3284.4	3710.9	4734.2	5096.4
42.5°	4147.7	4134.5	4090.7	3896.5	3670.8	3570.7	3629.1	4076.1	5151.9	5666.1
45°	4577.9	4569.8	4528.9	4306.2	4047.6	3935.2	4014.0	4479.3	5571.9	6202.2
47.5°	4949.6	4956.2	4951.1	4763.4	4495.3	4330.3	4424.5	4900.0	5962.6	6706.1
50°	5128.6	5162.9	5213.3	5154.9	4988.3	4820.4	4838.6	5306.0	6335.1	7178.7
52.5°	5035.1	5100.1	5237.4	5330.9	5395.1	5360.1	5311.2	5709.2	6685.7	7605.2
55°	4686.7	4778.0	5005.9	5231.5	5559.5	5814.4	5878.6	6156.2	7027.5	7980.6
57.5°	4052.0	4200.3	4404.8	4861.3	5413.4	6034.2	6540.3	6776.2	7389.7	8381.6
60°	2963.8	3162.4	3416.6	4095.8	4902.2	5916.6	7103.4	7728.6	7904.6	8900.9
62.5°	1896.7	2019.4	2253.1	2892.9	3819.8	5314.1	7275.8	8919.1	8777.4	9752.4
65°	1298.6	1377.5	1591.4	1950.8	2469.3	3955.6	6814.2	9811.6	10163.6	11102.1
67.5°	943.6	1003.5	1186.1	1500.9	1609.0	2340.8	5287.8	9770.7	11511.1	12492.7
70°	688.0	730.4	883.7	1186.1	1238.0	1302.2	3203.3	8305.6	11481.9	12862.3
72.5°	509.8	539.0	642.0	920.2	1002.0	879.3	1585.6	6036.4	9866.4	11633.8
75°	368.8	390.7	466.7	704.1	801.9	669.7	791.0	3527.6	6882.1	8183.6
77.5°	281.9	298.7	348.4	515.6	642.0	502.5	490.8	1622.9	3263.2	3279.3
80°	226.4	237.4	264.4	363.0	492.3	376.1	319.9	655.1	1031.3	872.8
82.5°	166.5	184.8	223.5	254.9	352.0	259.3	195.0	330.9	392.2	337.4
85°	94.9	107.4	135.1	182.6	224.9	158.5	111.7	146.8	182.6	149.7
87.5°	33.6	43.8	47.5	71.6	97.9	65.7	43.1	42.4	59.9	44.6
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°
2018.0	0°	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0
2039.9	2.5°	2032.6	2028.9	2014.3	1994.6	1974.2	1954.4	1947.9	1934.0	1924.5	1919.4
2087.4	5°	2073.5	2061.8	2027.5	1983.6	1937.6	1888.0	1852.9	1820.8	1797.4	1775.5
2152.4	7.5°	2131.9	2111.5	2052.3	1975.6	1893.8	1811.3	1749.9	1703.2	1671.8	1651.3
2228.3	10°	2199.8	2168.4	2077.9	1963.2	1836.8	1718.5	1646.2	1606.1	1586.3	1575.4
2315.2	12.5°	2278.0	2233.4	2104.2	1934.7	1749.9	1614.8	1565.2	1553.5	1554.2	1554.9
2424.8	15°	2374.4	2312.3	2125.3	1872.6	1636.7	1535.2	1526.4	1545.4	1565.2	1574.6
2548.9	17.5°	2483.2	2395.6	2129.0	1770.4	1525.7	1484.1	1511.8	1552.7	1582.7	1595.8
2687.7	20°	2600.1	2480.3	2102.7	1625.8	1434.4	1442.5	1492.1	1544.7	1577.6	1594.4
2846.2	22.5°	2733.7	2570.9	2039.9	1473.9	1359.9	1397.2	1455.6	1506.7	1541.1	1557.9
3032.4	25°	2886.4	2672.4	1941.3	1346.0	1295.7	1346.0	1404.5	1446.8	1474.6	1489.9
3240.6	27.5°	3055.8	2778.3	1809.8	1244.5	1239.4	1293.5	1341.7	1374.5	1389.1	1400.8
3461.9	30°	3226.0	2874.7	1650.6	1167.8	1190.5	1241.6	1275.9	1290.5	1294.9	1297.1
3708.7	32.5°	3410.0	2957.9	1483.4	1104.3	1143.7	1191.2	1211.7	1218.2	1197.8	1183.9
4008.2	35°	3632.8	3047.0	1319.8	1053.9	1097.7	1138.6	1145.2	1139.4	1115.3	1086.8
4383.6	37.5°	3908.1	3158.1	1189.0	1018.1	1054.6	1081.7	1073.6	1072.2	1074.4	1040.8
4835.0	40°	4245.6	3302.7	1093.3	990.4	1019.6	1025.4	1002.8	1015.2	1026.2	975.0
5330.1	42.5°	4620.2	3477.2	1032.7	971.4	990.4	976.5	941.4	955.3	953.8	886.7
5827.5	45°	5002.2	3667.1	1011.5	957.5	963.3	935.6	896.9	900.5	869.9	809.2
6304.4	47.5°	5382.0	3870.9	1024.7	945.8	929.7	898.3	868.4	852.3	807.0	761.8
6761.6	50°	5754.5	4084.9	1072.9	922.4	883.7	865.5	843.6	815.1	766.9	728.2
7194.0	52.5°	6099.9	4300.3	1126.9	883.7	826.0	837.0	823.1	790.2	742.8	703.3
7603.0	55°	6427.1	4515.8	1148.1	830.4	772.0	812.2	804.1	743.5	686.5	654.4
8031.0	57.5°	6783.5	4775.1	1124.7	762.5	728.2	783.7	753.0	685.8	652.9	628.8
8588.3	60°	7277.3	5181.9	1074.4	678.5	686.5	741.3	688.7	661.0	625.2	598.2
9423.8	62.5°	8097.5	5940.7	993.3	595.2	637.6	678.5	658.1	630.3	593.8	567.5
10852.4	65°	9309.9	6995.4	840.6	530.2	582.8	617.2	625.2	597.4	559.5	531.7
12104.2	67.5°	10332.4	7657.1	636.1	476.2	526.6	567.5	590.1	563.1	522.9	495.9
12397.1	70°	10276.1	7176.5	485.7	422.9	476.9	518.6	547.8	526.6	483.5	457.9
11260.6	72.5°	9127.3	6003.5	392.9	368.8	426.5	467.4	502.5	486.4	442.6	417.8
8249.4	75°	6705.4	4261.6	314.1	314.1	363.7	414.1	452.8	442.6	402.4	384.9
3463.3	77.5°	2826.5	1787.9	246.1	260.7	302.4	355.7	403.9	407.5	372.5	394.4
915.9	80°	751.5	493.0	187.7	205.2	237.4	293.6	351.3	349.8	311.9	291.4
340.3	82.5°	286.3	194.3	133.7	144.6	171.6	224.9	278.3	287.0	249.1	215.5
133.7	85°	110.3	83.3	82.5	86.9	100.1	149.0	210.3	217.6	187.7	159.2
37.2	87.5°	28.5	24.8	30.7	29.2	46.0	79.6	120.5	124.9	114.7	66.5
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>
2018.0
1925.2
1784.3
1655.7
1578.3
1556.4
1573.9
1598.7
1598.7
1562.2
1494.3
1405.2
1302.2
1188.3
1088.2
1042.9
976.5
885.9
811.4
761.8
725.2
704.1
651.5
626.6
596.7
567.5
533.2
496.6
460.1
417.8
379.8
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271.0
215.5
164.3
94.9
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