

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: P939805

Luminaire Tested: **GALN-SB2C-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939805
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-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12904 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

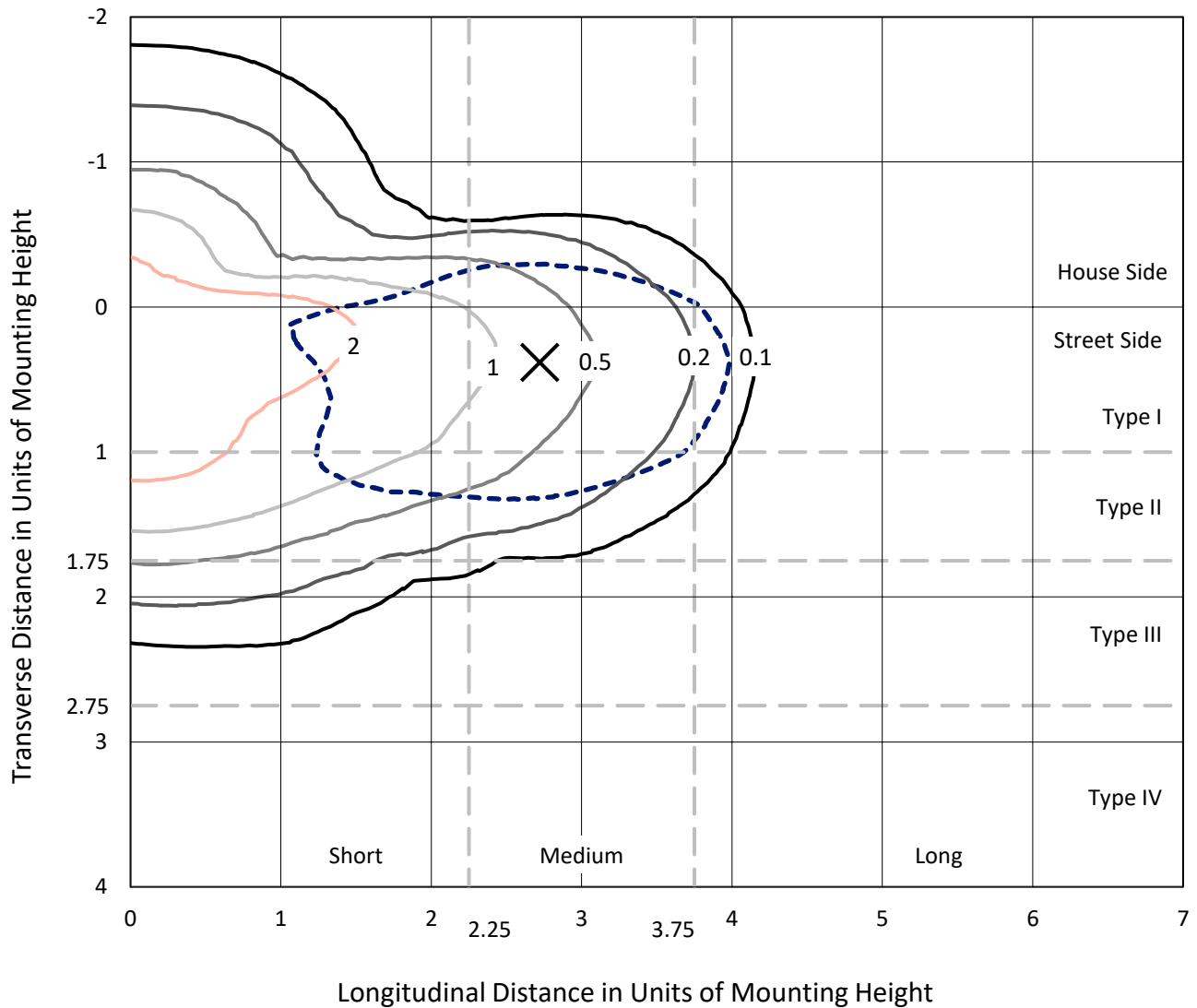
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939805
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Iso-Footcandle Lines of Horizontal Illumination

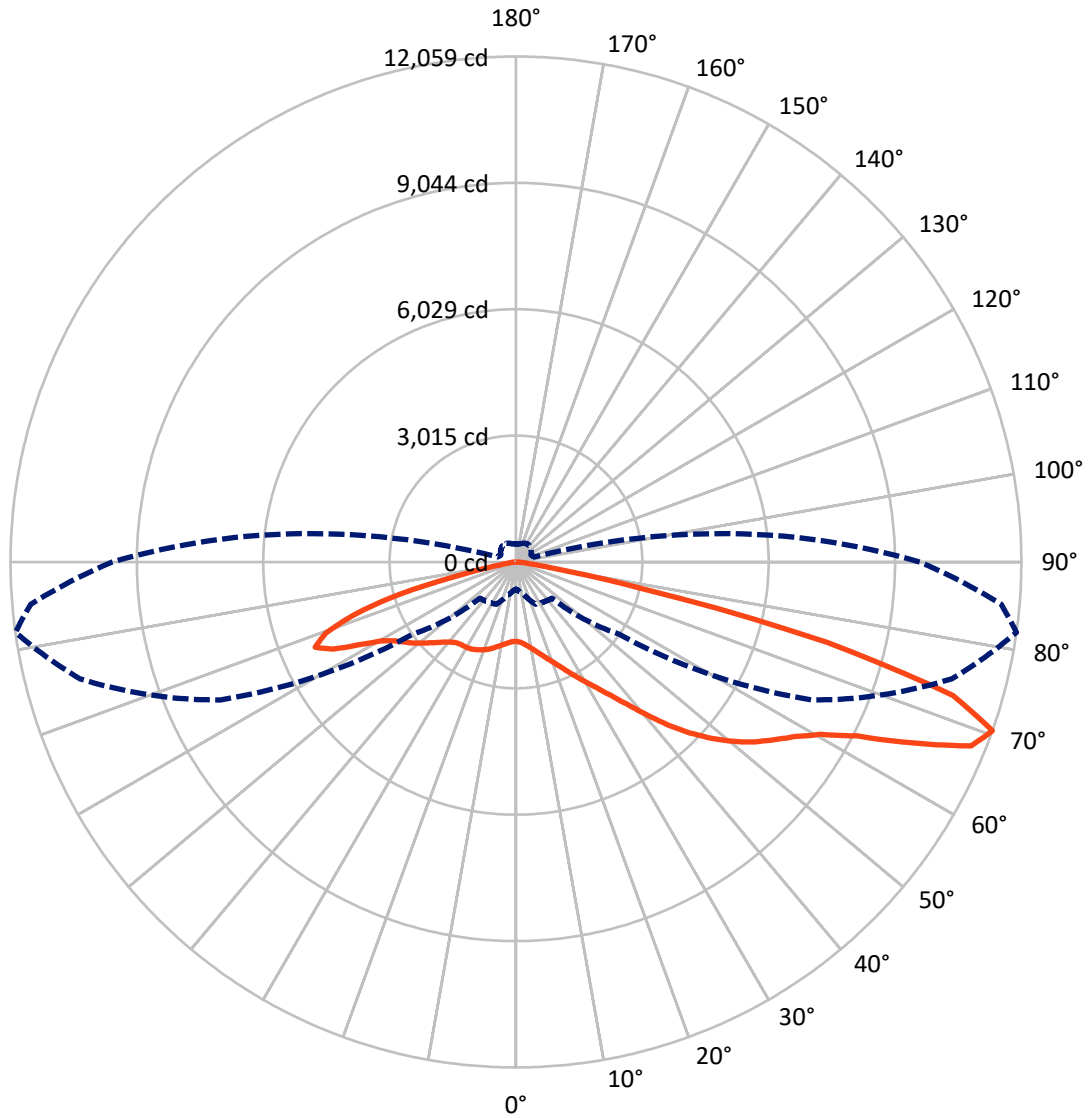
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P939805
CATALOG NUMBER: GALN-SB2C-827-U-T2

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	3181.2	0.0	3181.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	9722.8	0.0	9722.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	12904.0	0.0	12904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	1.4
10°-20°	513.2	4.0
20°-30°	858.5	6.7
30°-40°	1341.3	10.4
40°-50°	2136.1	16.6
50°-60°	2972.7	23.0
60°-70°	3109.6	24.1
70°-80°	1625.2	12.6
80°-90°	168.8	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°	12904.0	100.0
0°-180°	12904.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939805

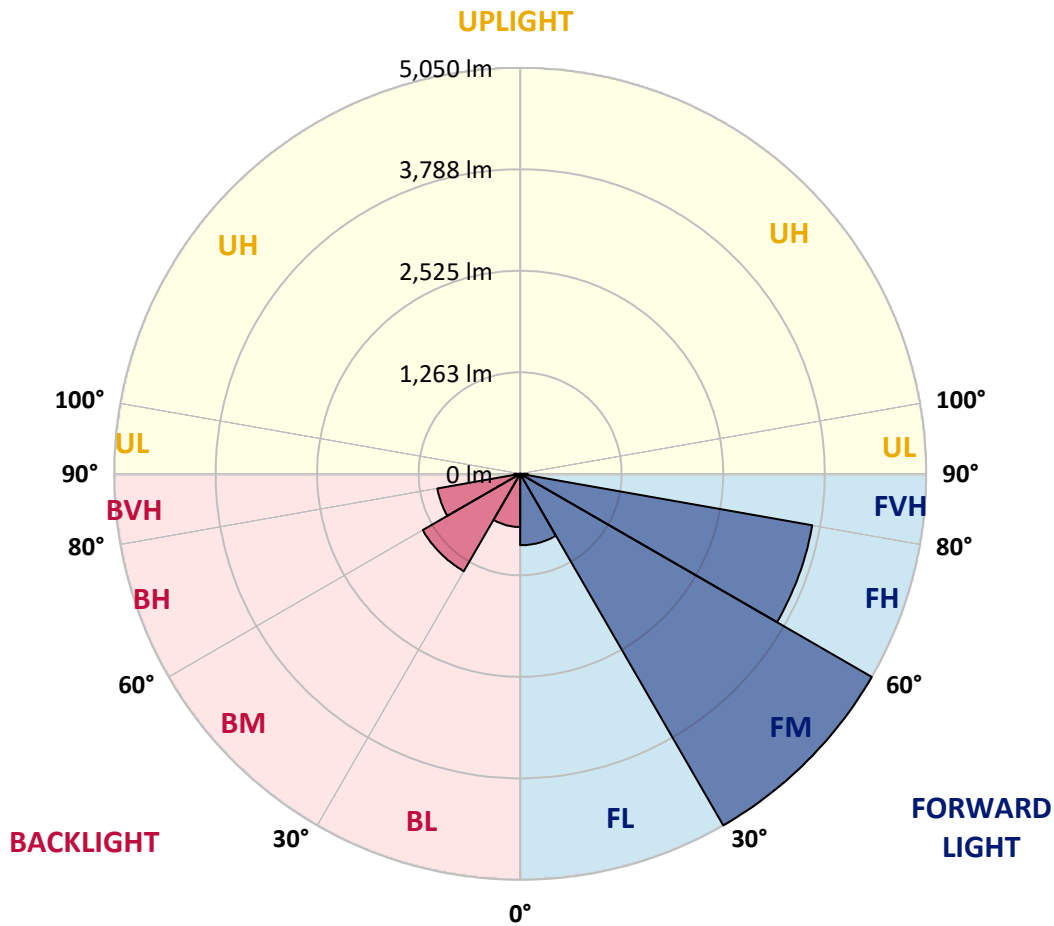
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	888.6	6.9			
FM (30°-60°)	5050.5	39.1			
FH (60°-80°)	3689.3	28.6			G2/5000
FVH (80°-90°)	94.5	0.7			G1/100
BL (0°-30°)	661.8	5.1	B2/1000		
BM (30°-60°)	1399.6	10.8	B2/2500		
BH (60°-80°)	1045.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	74.3	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°	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9
2.5°	1937.1	1948.0	1944.6	1941.2	1941.2	1936.4	1935.7	1928.9	1923.4	1914.5
5°	1961.7	1973.4	1972.0	1974.7	1983.6	1985.7	1987.7	1983.6	1972.7	1961.7
7.5°	1939.8	1952.8	1956.9	1973.4	2000.8	2025.4	2043.9	2051.4	2041.2	2025.4
10°	1865.9	1880.2	1894.6	1933.7	1982.3	2040.5	2089.8	2119.2	2117.2	2102.1
12.5°	1715.9	1731.0	1761.8	1837.8	1926.8	2029.5	2121.3	2182.9	2204.1	2193.2
15°	1596.1	1609.1	1632.4	1710.4	1826.2	1982.3	2132.9	2252.7	2306.8	2300.7
17.5°	1592.7	1598.1	1612.5	1649.5	1738.5	1908.3	2120.6	2321.2	2424.6	2423.9
20°	1652.9	1655.0	1663.2	1670.7	1721.4	1852.2	2089.1	2378.0	2556.8	2556.8
22.5°	1736.5	1735.1	1743.3	1736.5	1761.1	1847.4	2069.2	2428.0	2704.0	2714.9
25°	1861.8	1854.9	1852.9	1837.1	1841.9	1891.9	2091.1	2484.9	2878.6	2901.2
27.5°	2028.8	2017.9	2010.3	1974.1	1961.7	1983.6	2158.2	2553.3	3073.0	3112.1
30°	2246.6	2226.7	2215.8	2152.8	2108.3	2111.7	2259.6	2644.4	3276.4	3339.4
32.5°	2543.7	2512.9	2483.5	2380.1	2298.6	2271.9	2390.4	2770.4	3496.9	3597.5
35°	2876.5	2851.9	2820.4	2660.8	2535.5	2473.9	2567.0	2946.4	3755.0	3914.6
37.5°	3197.0	3175.7	3190.8	2975.8	2814.2	2724.5	2798.5	3182.6	4073.4	4309.0
40°	3528.4	3511.9	3514.0	3308.6	3120.3	3019.6	3079.2	3479.1	4438.4	4778.0
42.5°	3888.5	3876.2	3835.1	3653.0	3441.4	3347.6	3402.4	3821.4	4830.0	5312.1
45°	4291.8	4284.3	4246.0	4037.1	3794.7	3689.3	3763.2	4199.4	5223.7	5814.7
47.5°	4640.4	4646.5	4641.7	4465.8	4214.5	4059.7	4148.0	4593.8	5590.1	6287.1
50°	4808.1	4840.3	4887.5	4832.8	4676.7	4519.2	4536.3	4974.5	5939.3	6730.1
52.5°	4720.5	4781.4	4910.1	4997.8	5058.0	5025.2	4979.3	5352.5	6267.9	7130.0
55°	4393.9	4479.5	4693.1	4904.7	5212.1	5451.1	5511.3	5771.5	6588.4	7482.0
57.5°	3798.8	3937.8	4129.6	4557.5	5075.2	5657.2	6131.7	6352.9	6928.0	7857.9
60°	2778.6	2964.8	3203.1	3839.9	4595.9	5546.9	6659.6	7245.7	7410.7	8344.7
62.5°	1778.2	1893.3	2112.4	2712.2	3581.1	4982.0	6821.2	8361.8	8229.0	9143.1
65°	1217.4	1291.4	1492.0	1828.9	2315.0	3708.5	6388.5	9198.6	9528.6	10408.5
67.5°	884.7	940.8	1112.0	1407.1	1508.4	2194.5	4957.4	9160.2	10791.9	11712.2
70°	645.0	684.7	828.5	1112.0	1160.6	1220.9	3003.2	7786.7	10764.5	12058.6
72.5°	477.9	505.3	601.9	862.8	939.4	824.4	1486.5	5659.2	9249.9	10906.9
75°	345.8	366.3	437.5	660.1	751.8	627.9	741.6	3307.2	6452.1	7672.3
77.5°	264.3	280.1	326.6	483.4	601.9	471.1	460.1	1521.5	3059.3	3074.4
80°	212.3	222.5	247.9	340.3	461.5	352.6	299.9	614.2	966.8	818.2
82.5°	156.1	173.2	209.5	239.0	330.0	243.1	182.8	310.2	367.7	316.3
85°	89.0	100.7	126.7	171.2	210.9	148.6	104.8	137.6	171.2	140.4
87.5°	31.5	41.1	44.5	67.1	91.8	61.6	40.4	39.7	56.1	41.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939805
 CATALOG NUMBER: GALN-SB2C-827-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1891.9	0°	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9	1891.9
1912.4	2.5°	1905.6	1902.2	1888.5	1870.0	1850.8	1832.3	1826.2	1813.1	1804.2	1799.5
1956.9	5°	1943.9	1933.0	1900.8	1859.7	1816.6	1770.0	1737.1	1707.0	1685.1	1664.6
2017.9	7.5°	1998.7	1979.5	1924.1	1852.2	1775.5	1698.1	1640.6	1596.8	1567.3	1548.2
2089.1	10°	2062.4	2032.9	1948.0	1840.5	1722.1	1611.2	1543.4	1505.7	1487.2	1476.9
2170.6	12.5°	2135.6	2093.9	1972.7	1813.8	1640.6	1513.9	1467.4	1456.4	1457.1	1457.8
2273.3	15°	2226.0	2167.8	1992.5	1755.6	1534.5	1439.3	1431.1	1448.9	1467.4	1476.3
2389.7	17.5°	2328.1	2245.9	1996.0	1659.8	1430.4	1391.4	1417.4	1455.7	1483.8	1496.1
2519.8	20°	2437.6	2325.3	1971.3	1524.2	1344.8	1352.3	1398.9	1448.2	1479.0	1494.7
2668.4	22.5°	2562.9	2410.2	1912.4	1381.8	1275.0	1309.9	1364.7	1412.6	1444.8	1460.5
2843.0	25°	2706.0	2505.4	1820.0	1261.9	1214.7	1261.9	1316.7	1356.4	1382.5	1396.8
3038.1	27.5°	2864.9	2604.7	1696.7	1166.8	1162.0	1212.6	1257.8	1288.6	1302.3	1313.3
3245.6	30°	3024.4	2695.1	1547.5	1094.9	1116.1	1164.0	1196.2	1209.9	1214.0	1216.1
3477.0	32.5°	3197.0	2773.1	1390.7	1035.3	1072.3	1116.8	1136.0	1142.1	1122.9	1109.9
3757.8	35°	3405.8	2856.7	1237.3	988.1	1029.1	1067.5	1073.6	1068.2	1045.6	1018.9
4109.7	37.5°	3663.9	2960.7	1114.7	954.5	988.7	1014.1	1006.5	1005.2	1007.2	975.7
4532.9	40°	3980.3	3096.3	1025.0	928.5	955.9	961.4	940.1	951.8	962.0	914.1
4997.1	42.5°	4331.6	3260.0	968.2	910.7	928.5	915.5	882.6	895.6	894.2	831.3
5463.4	45°	4689.7	3438.0	948.3	897.7	903.1	877.1	840.8	844.3	815.5	758.7
5910.5	47.5°	5045.7	3629.0	960.7	886.7	871.7	842.2	814.1	799.1	756.6	714.2
6339.2	50°	5394.9	3829.7	1005.9	864.8	828.5	811.4	790.9	764.2	719.0	682.7
6744.5	52.5°	5718.8	4031.6	1056.5	828.5	774.4	784.7	771.7	740.9	696.4	659.4
7128.0	55°	6025.6	4233.6	1076.4	778.5	723.8	761.4	753.9	697.0	643.6	613.5
7529.2	57.5°	6359.7	4476.7	1054.5	714.9	682.7	734.7	705.9	643.0	612.1	589.5
8051.6	60°	6822.6	4858.1	1007.2	636.1	643.6	695.0	645.7	619.7	586.1	560.8
8835.0	62.5°	7591.5	5569.5	931.2	558.0	597.8	636.1	616.9	590.9	556.7	532.0
10174.3	65°	8728.2	6558.3	788.1	497.1	546.4	578.6	586.1	560.1	524.5	498.5
11347.9	67.5°	9686.8	7178.6	596.4	446.4	493.7	532.0	553.3	527.9	490.3	464.9
11622.5	70°	9634.0	6728.1	455.3	396.5	447.1	486.2	513.5	493.7	453.3	429.3
10557.0	72.5°	8557.0	5628.4	368.4	345.8	399.9	438.2	471.1	456.0	414.9	391.7
7733.9	75°	6286.4	3995.4	294.4	294.4	341.0	388.2	424.5	414.9	377.3	360.8
3247.0	77.5°	2649.9	1676.2	230.8	244.4	283.5	333.5	378.7	382.1	349.2	369.8
858.6	80°	704.6	462.2	176.0	192.4	222.5	275.3	329.4	328.0	292.4	273.2
319.1	82.5°	268.4	182.1	125.3	135.6	160.9	210.9	260.9	269.1	233.5	202.0
125.3	85°	103.4	78.1	77.4	81.5	93.8	139.7	197.2	204.0	176.0	149.3
34.9	87.5°	26.7	23.3	28.8	27.4	43.1	74.6	113.0	117.1	107.5	62.3
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>
1891.9
1804.9
1672.8
1552.3
1479.7
1459.1
1475.6
1498.9
1498.9
1464.6
1400.9
1317.4
1220.9
1114.0
1020.2
977.8
915.5
830.6
760.7
714.2
679.9
660.1
610.8
587.5
559.4
532.0
499.8
465.6
431.4
391.7
356.1
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254.0
202.0
154.1
89.0
0.0

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