

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: P947071

Luminaire Tested: **GALN-SB2C-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-740-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12110 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

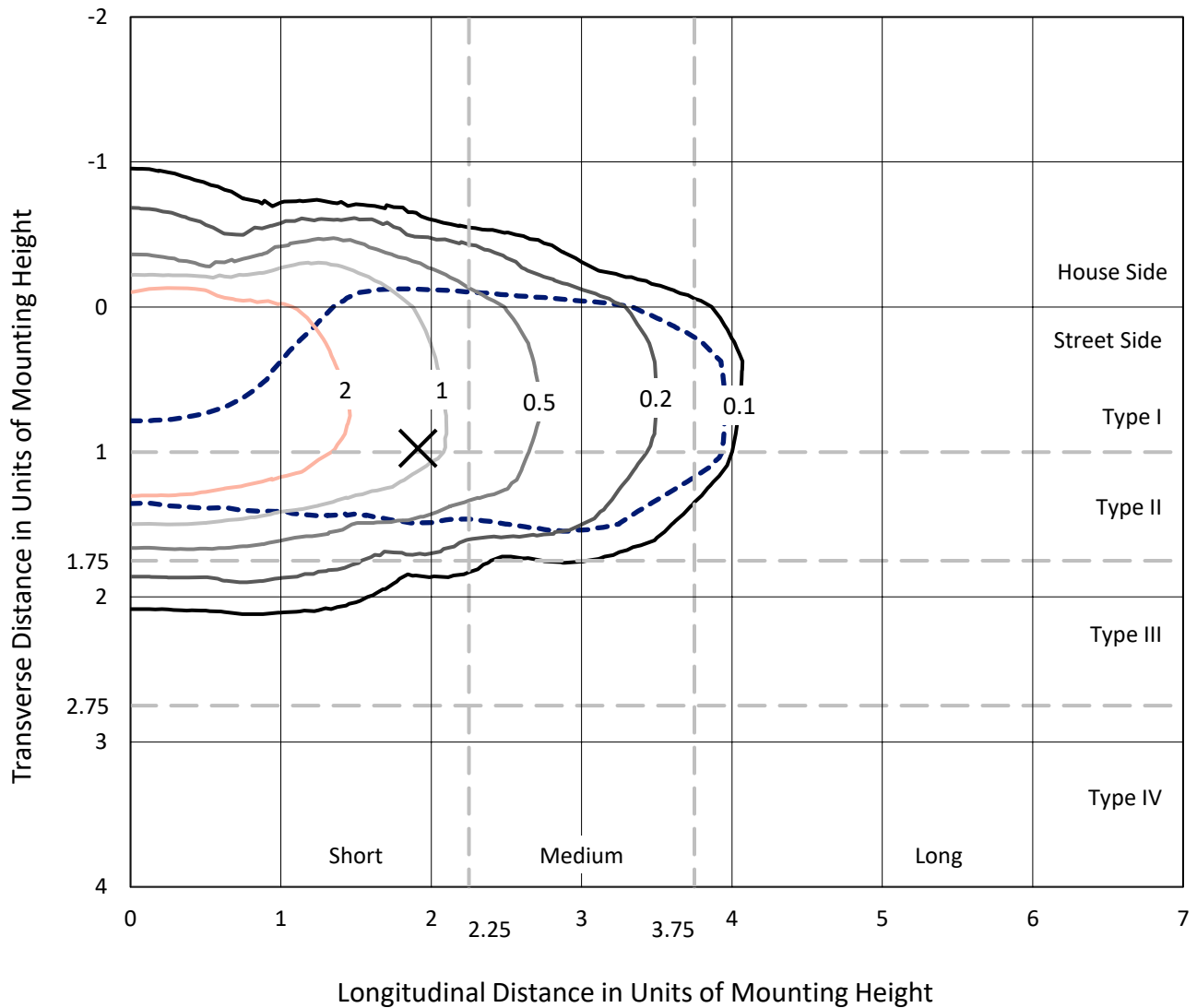
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947071
 CATALOG NUMBER: GALN-SB2C-740-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

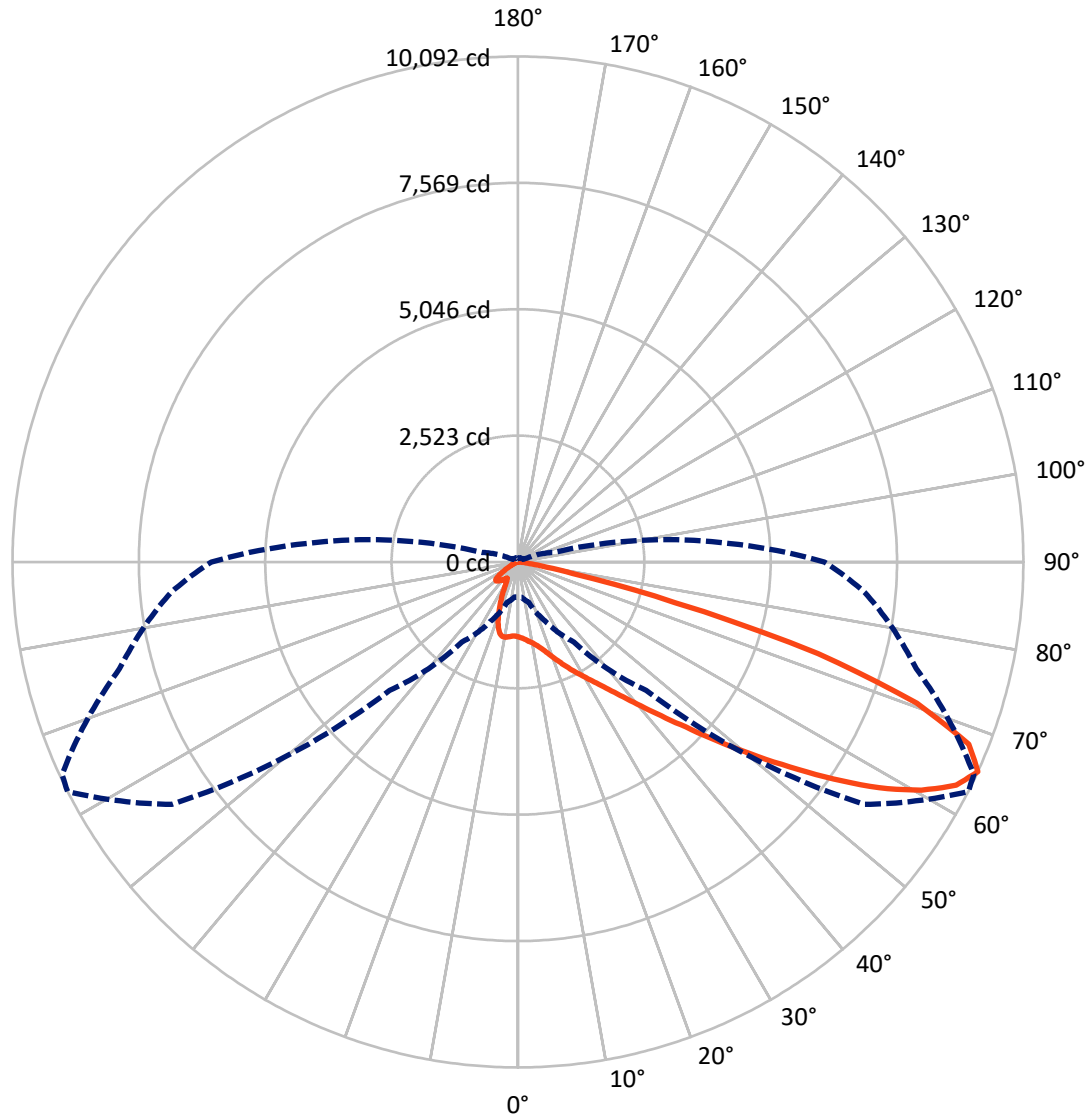
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

REPORT NUMBER: P947071
CATALOG NUMBER: GALN-SB2C-740-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1780.1	0.0	1780.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10329.9	0.0	10329.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	12110.0	0.0	12110.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	1.2
10°-20°	390.7	3.2
20°-30°	680.4	5.6
30°-40°	1226.3	10.1
40°-50°	2432.1	20.1
50°-60°	3312.9	27.4
60°-70°	2644.3	21.8
70°-80°	1196.6	9.9
80°-90°	86.0	0.7
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°	12110.0	100.0
0°-180°	12110.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947071

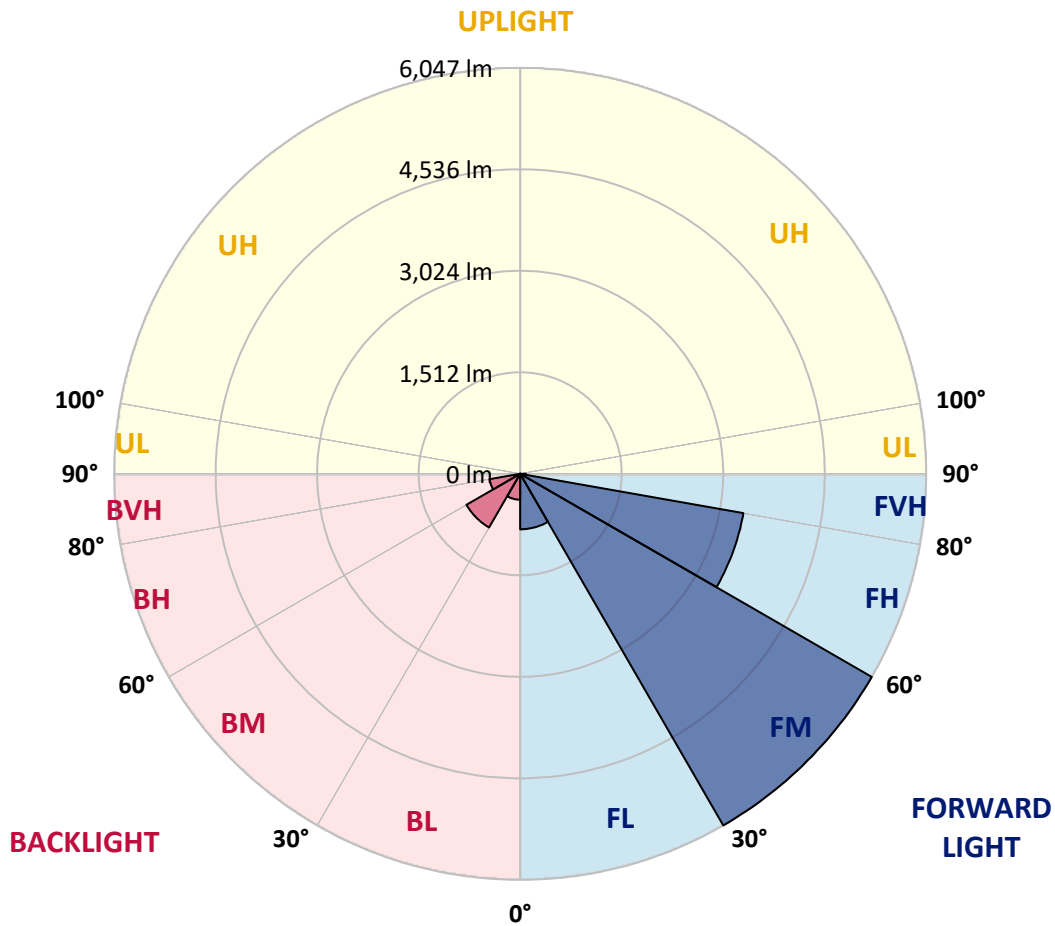
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	826.7	6.8			
FM (30°-60°)	6047.4	49.9			
FH (60°-80°)	3376.2	27.9			G2/5000
FVH (80°-90°)	79.6	0.7			G1/100
BL (0°-30°)	385.2	3.2	B1/500		
BM (30°-60°)	923.8	7.6	B1/1000		
BH (60°-80°)	464.7	3.8	B1/500		G1/500
BVH (80°-90°)	6.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



REPORT NUMBER: P947071

CATALOG NUMBER: GALN-SB2C-740-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6
2.5°	1529.6	1525.4	1531.3	1528.8	1527.1	1523.8	1522.1	1520.4	1517.1	1514.6
5°	1533.8	1531.3	1537.1	1542.1	1547.1	1552.1	1554.6	1557.9	1554.6	1547.9
7.5°	1498.8	1497.1	1509.6	1524.6	1547.1	1566.3	1587.1	1598.7	1599.6	1597.1
10°	1496.3	1492.1	1504.6	1522.9	1552.1	1586.2	1622.9	1647.9	1651.2	1662.1
12.5°	1535.4	1531.3	1548.8	1568.7	1598.7	1634.6	1679.6	1714.5	1719.5	1734.5
15°	1601.2	1595.4	1615.4	1641.2	1679.6	1720.4	1767.9	1799.5	1803.7	1822.0
17.5°	1677.9	1672.1	1695.4	1722.9	1764.5	1820.3	1875.3	1910.3	1915.3	1927.0
20°	1776.2	1768.7	1787.0	1812.0	1856.2	1922.8	1988.6	2038.6	2037.8	2037.8
22.5°	1890.3	1878.7	1894.5	1914.5	1956.1	2037.0	2124.4	2183.6	2183.6	2160.3
25°	2012.8	2001.1	2018.6	2037.0	2073.6	2165.3	2267.7	2341.0	2344.4	2304.4
27.5°	2166.1	2151.1	2164.4	2186.1	2207.7	2301.1	2422.7	2507.7	2509.3	2447.7
30°	2461.0	2418.5	2376.9	2353.5	2363.5	2456.0	2586.0	2680.1	2688.5	2603.5
32.5°	3000.9	2992.5	2845.9	2654.3	2554.3	2622.6	2768.4	2881.7	2886.7	2777.6
35°	3839.8	3829.8	3594.0	3229.1	2903.4	2845.9	2990.0	3124.2	3120.8	2997.5
37.5°	4841.2	4832.0	4521.3	4033.1	3505.7	3183.3	3275.8	3416.6	3437.4	3275.8
40°	5696.8	5662.7	5466.0	4995.3	4305.5	3743.2	3682.4	3775.7	3797.3	3605.7
42.5°	6345.0	6315.8	6215.8	5921.8	5273.6	4571.3	4161.4	4197.2	4221.4	3991.4
45°	6680.7	6674.1	6714.0	6686.6	6260.0	5587.7	4846.2	4697.1	4706.2	4418.8
47.5°	6728.2	6724.9	6907.3	7165.6	7108.1	6734.0	5725.1	5320.3	5287.8	4901.2
50°	6448.3	6441.6	6791.5	7275.6	7674.6	7697.1	6723.2	6022.6	5950.9	5400.2
52.5°	5554.4	5552.7	6127.5	6933.2	7873.7	8540.2	7709.6	6794.0	6674.1	5928.4
55°	4273.9	4304.7	4963.7	5915.9	7510.5	8946.0	8595.2	7650.5	7466.3	6459.9
57.5°	3027.5	3072.5	3724.0	4572.1	6384.1	8706.0	9194.2	8508.6	8310.3	6989.8
60°	1626.2	1666.2	2318.6	3330.8	4749.6	7811.3	9510.0	9253.4	9065.9	7493.0
62.5°	968.9	982.2	1252.2	2150.3	3212.5	5967.6	9375.8	9820.7	9666.6	7915.4
65°	695.6	698.1	833.9	1313.0	1950.3	3625.7	8435.3	10092.3	10044.8	8233.6
67.5°	585.7	584.0	640.7	872.3	1328.8	1816.2	6464.9	9708.3	9909.9	8435.3
70°	502.4	504.9	571.5	639.0	998.9	1028.1	3214.1	8452.8	8882.6	8488.6
72.5°	374.1	382.4	444.0	582.3	754.0	707.3	1109.7	6267.5	7044.8	7997.9
75°	264.1	268.3	312.4	489.9	562.4	514.9	566.5	3240.0	4236.4	6131.7
77.5°	203.3	210.8	236.6	342.4	554.0	361.6	346.6	1121.4	1722.9	3704.0
80°	110.0	123.3	170.8	247.4	389.1	255.8	171.6	446.5	584.0	1732.0
82.5°	56.7	63.3	119.1	178.3	221.6	223.3	85.0	185.8	240.8	534.9
85°	22.5	27.5	80.0	98.3	114.1	110.0	38.3	75.0	86.6	148.3
87.5°	5.0	8.3	29.2	22.5	21.7	23.3	9.2	17.5	16.7	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947071
 CATALOG NUMBER: GALN-SB2C-740-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1494.6	0°	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6
1504.6	2.5°	1503.8	1500.4	1491.3	1481.3	1469.6	1462.9	1458.8	1457.9	1452.1	1447.9
1537.9	5°	1528.8	1525.4	1507.9	1487.1	1464.6	1447.1	1430.5	1415.5	1393.8	1389.6
1586.2	7.5°	1578.7	1569.6	1541.3	1512.9	1470.4	1419.6	1358.0	1287.2	1223.8	1204.7
1650.4	10°	1640.4	1627.9	1592.1	1542.1	1447.9	1309.7	1160.5	1022.2	912.3	881.4
1726.2	12.5°	1710.4	1699.5	1652.1	1559.6	1353.8	1103.0	874.8	703.1	596.5	569.8
1807.0	15°	1793.7	1777.9	1712.0	1532.9	1185.5	838.1	600.7	499.0	460.7	455.7
1899.5	17.5°	1882.0	1856.2	1765.4	1437.1	958.9	595.7	464.0	434.9	418.2	413.2
1992.8	20°	1962.8	1929.5	1797.0	1292.2	716.5	464.0	415.7	396.6	381.6	375.7
2086.1	22.5°	2043.6	1996.1	1797.0	1094.7	537.4	411.6	381.6	364.1	346.6	339.1
2186.1	25°	2127.8	2064.5	1765.4	874.8	432.4	377.4	349.1	329.9	314.9	305.8
2281.1	27.5°	2209.4	2121.9	1692.9	666.5	384.9	347.4	319.1	300.8	286.6	279.9
2384.4	30°	2286.9	2178.6	1591.2	505.7	354.1	318.2	291.6	275.8	261.6	254.9
2518.5	32.5°	2391.9	2250.2	1482.9	414.9	327.4	290.8	266.6	251.6	239.1	234.1
2692.6	35°	2537.7	2356.0	1389.6	407.4	304.9	268.3	244.1	229.9	217.4	213.3
2917.6	37.5°	2744.3	2526.8	1340.5	457.4	286.6	248.3	225.8	210.8	199.1	195.8
3203.3	40°	2999.2	2758.4	1367.1	507.4	274.1	230.8	209.1	194.1	184.1	180.0
3531.6	42.5°	3301.6	3044.2	1514.6	545.7	265.8	215.8	193.3	176.6	170.0	168.3
3904.0	45°	3649.0	3358.3	1740.4	586.5	252.4	201.6	177.5	165.0	160.0	159.1
4308.9	47.5°	4043.9	3703.2	2002.0	637.3	239.1	188.3	165.0	156.6	152.5	150.8
4731.2	50°	4435.5	4050.6	2271.1	665.7	228.3	175.8	155.0	148.3	145.0	144.1
5177.8	52.5°	4845.4	4408.0	2488.5	639.0	219.1	165.8	146.6	141.6	138.3	137.5
5589.3	55°	5236.1	4697.1	2526.0	542.4	200.8	155.8	137.5	135.0	130.8	130.8
6006.7	57.5°	5572.7	4842.0	2261.1	398.2	182.5	140.8	128.3	125.8	122.5	121.6
6383.3	60°	5881.8	4800.4	1745.4	268.3	162.5	125.8	116.6	115.0	111.6	107.5
6710.7	62.5°	6055.9	4617.1	1193.8	175.0	142.5	110.0	103.3	102.5	95.0	86.6
6953.2	65°	6121.7	4240.5	744.8	127.5	119.1	94.1	89.1	87.5	76.6	67.5
7090.6	67.5°	6064.2	3620.7	375.7	100.8	94.1	78.3	73.3	73.3	65.8	57.5
7082.3	70°	5834.3	2714.3	158.3	80.8	72.5	60.0	60.0	63.3	55.8	46.7
6714.9	72.5°	5335.2	1826.2	84.1	61.7	54.2	42.5	49.2	51.7	44.2	35.0
5496.0	75°	4241.4	1113.9	58.3	45.8	34.2	30.0	37.5	39.2	30.0	23.3
3768.2	77.5°	2900.9	639.8	39.2	29.2	21.7	17.5	25.8	24.2	15.8	10.8
1452.9	80°	1273.8	266.6	22.5	13.3	8.3	6.7	9.2	6.7	5.0	3.3
199.1	82.5°	149.1	62.5	8.3	5.0	3.3	1.7	0.8	0.0	0.0	0.0
60.8	85°	30.8	7.5	4.2	1.7	0.8	0.0	0.0	0.0	0.0	0.0
10.8	87.5°	5.8	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
1494.6
1452.1
1388.0
1195.5
869.8
562.4
450.7
410.7
372.4
334.9
302.4
279.9
255.8
234.1
213.3
194.9
179.1
168.3
158.3
150.8
144.1
137.5
130.0
120.8
106.6
85.0
66.6
56.7
45.8
35.0
22.5
11.7
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