

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: P939895

Luminaire Tested: **GALN-SB2C-950-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939895
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-950-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10323 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

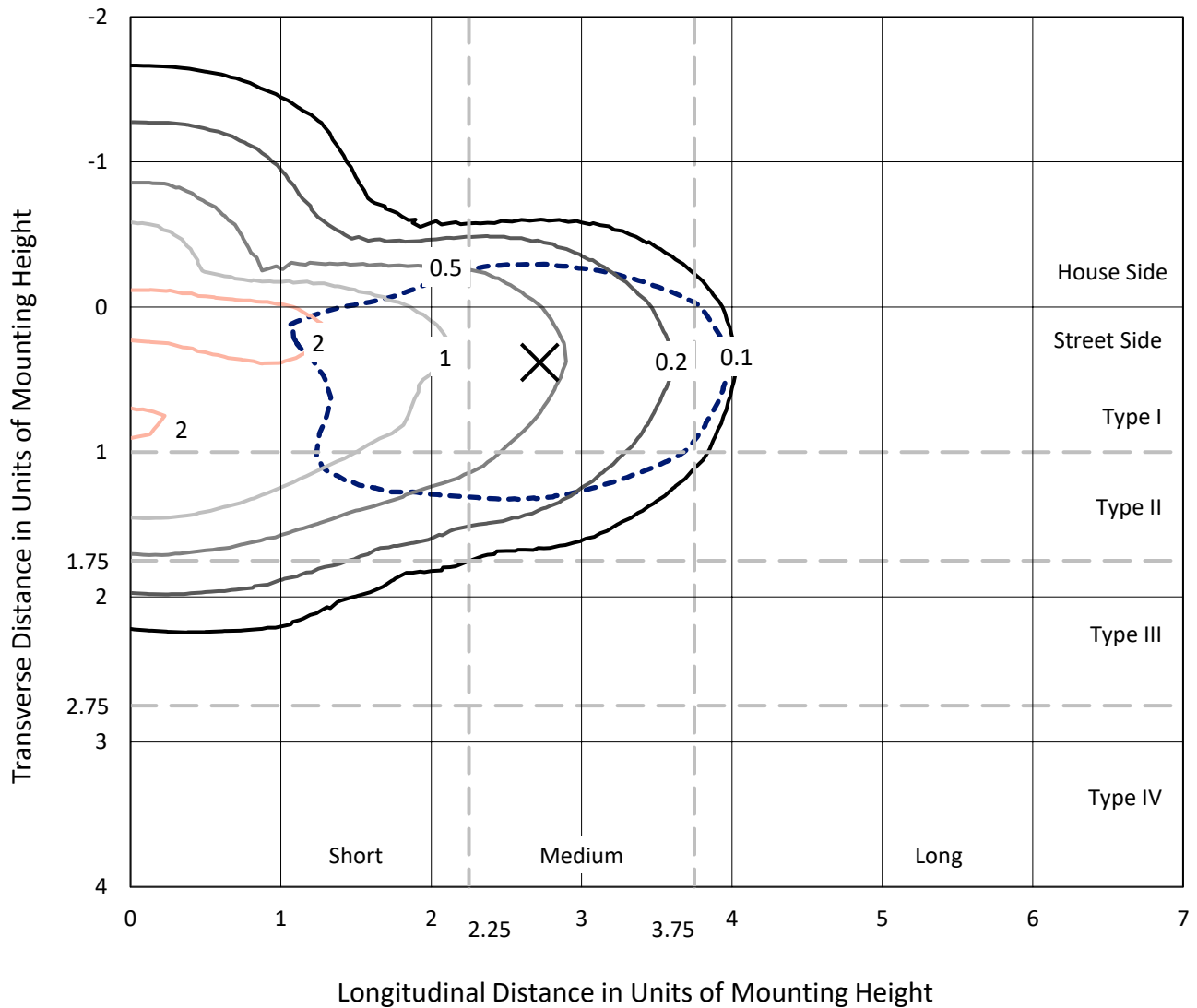
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

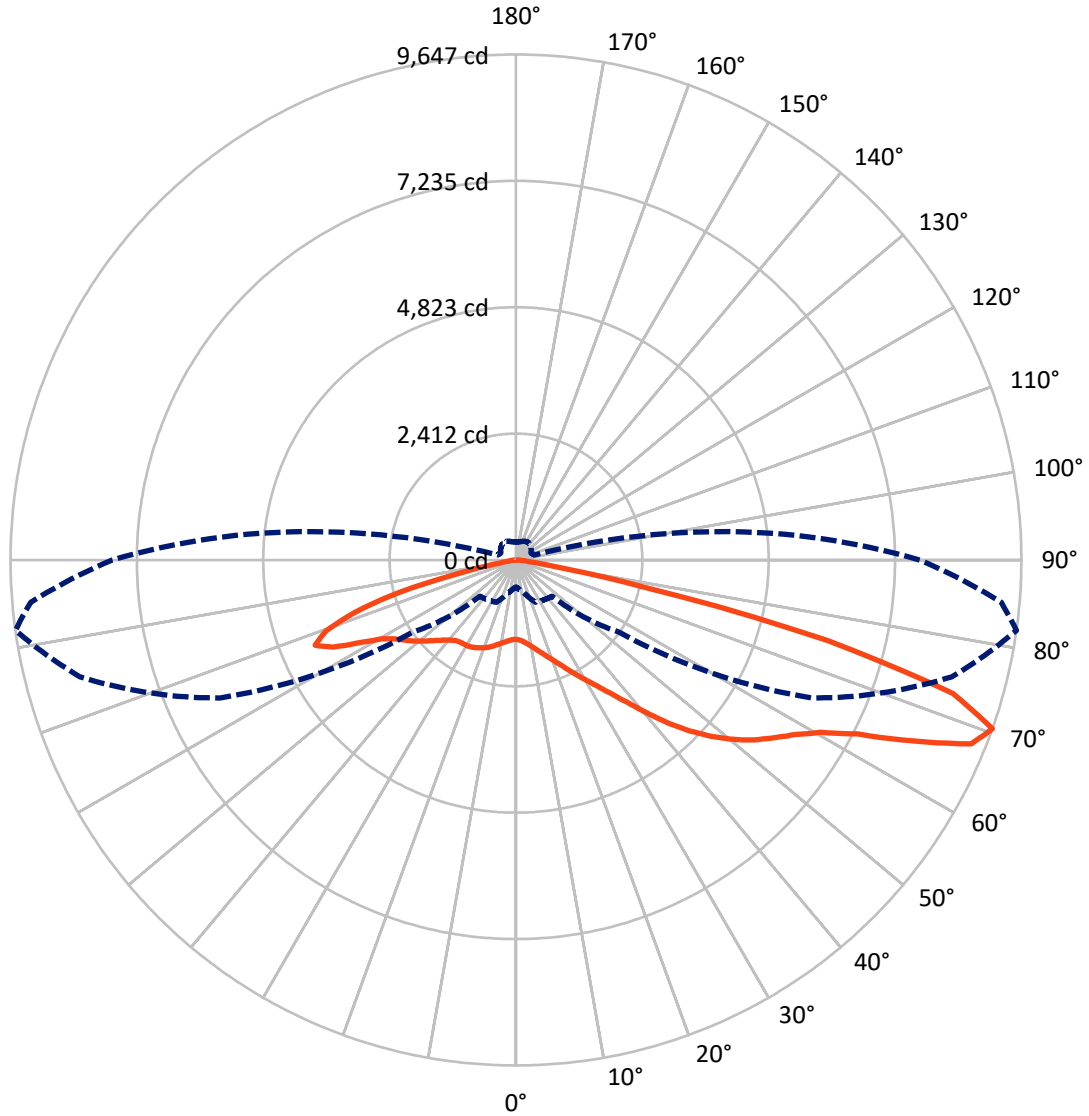
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	2544.9	0.0	2544.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	7778.1	0.0	7778.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	10323.0	0.0	10323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	1.4
10°-20°	410.6	4.0
20°-30°	686.8	6.7
30°-40°	1073.0	10.4
40°-50°	1708.9	16.6
50°-60°	2378.1	23.0
60°-70°	2487.6	24.1
70°-80°	1300.2	12.6
80°-90°	135.0	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°	10323.0	100.0
0°-180°	10323.0	100.0

Coefficient of Utilization



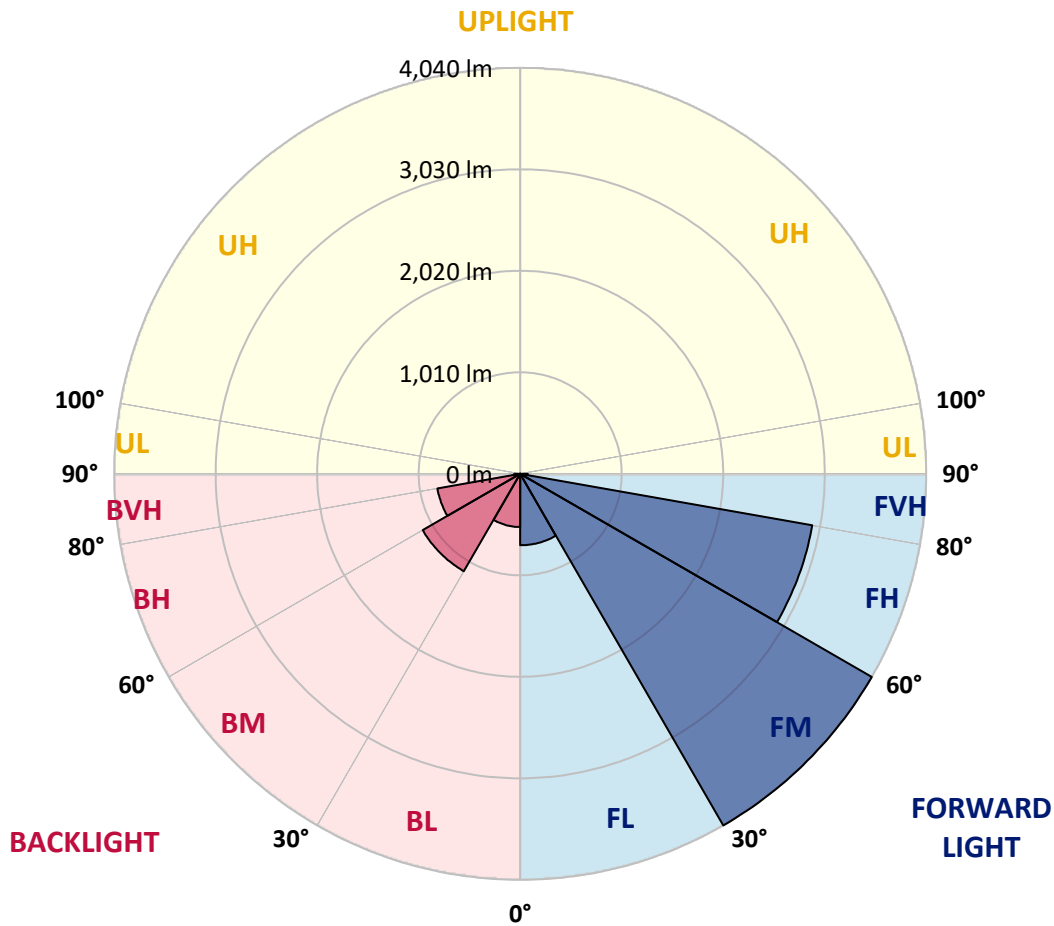
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.9	6.9			
FM (30°-60°)	4040.3	39.1			
FH (60°-80°)	2951.4	28.6			G2/5000
FVH (80°-90°)	75.6	0.7			G1/100
BL (0°-30°)	529.4	5.1	B2/1000		
BM (30°-60°)	1119.6	10.8	B2/2500		
BH (60°-80°)	836.4	8.1	B2/1000		G2/1000
BVH (80°-90°)	59.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5
2.5°	1549.6	1558.4	1555.7	1552.9	1552.9	1549.1	1548.5	1543.1	1538.7	1531.6
5°	1569.4	1578.7	1577.6	1579.8	1586.9	1588.5	1590.2	1586.9	1578.1	1569.4
7.5°	1551.8	1562.2	1565.5	1578.7	1600.6	1620.3	1635.1	1641.1	1632.9	1620.3
10°	1492.7	1504.2	1515.7	1546.9	1585.8	1632.3	1671.8	1695.3	1693.7	1681.6
12.5°	1372.7	1384.8	1409.4	1470.2	1541.4	1623.6	1697.0	1746.3	1763.3	1754.5
15°	1276.8	1287.3	1305.9	1368.3	1460.9	1585.8	1706.3	1802.2	1845.4	1840.5
17.5°	1274.1	1278.5	1290.0	1319.6	1390.8	1526.6	1696.4	1856.9	1939.6	1939.1
20°	1322.3	1324.0	1330.5	1336.6	1377.1	1481.7	1671.2	1902.4	2045.4	2045.4
22.5°	1389.1	1388.0	1394.6	1389.1	1408.9	1477.9	1655.4	1942.4	2163.1	2171.9
25°	1489.4	1483.9	1482.3	1469.7	1473.5	1513.5	1672.9	1987.8	2302.8	2320.9
27.5°	1623.0	1614.3	1608.2	1579.2	1569.4	1586.9	1726.6	2042.6	2458.4	2489.6
30°	1797.2	1781.3	1772.6	1722.2	1686.6	1689.3	1807.6	2115.5	2621.1	2671.5
32.5°	2035.0	2010.3	1986.8	1904.0	1838.9	1817.5	1912.3	2216.3	2797.4	2878.0
35°	2301.2	2281.5	2256.3	2128.6	2028.4	1979.1	2053.6	2357.0	3004.0	3131.6
37.5°	2557.5	2540.5	2552.6	2380.6	2251.3	2179.6	2238.7	2546.0	3258.7	3447.1
40°	2822.6	2809.5	2811.1	2646.8	2496.2	2415.7	2463.3	2783.2	3550.6	3822.3
42.5°	3110.8	3100.9	3068.0	2922.3	2753.1	2678.0	2721.9	3057.1	3864.0	4249.6
45°	3433.4	3427.4	3396.7	3229.6	3035.7	2951.4	3010.5	3359.5	4178.9	4651.6
47.5°	3712.2	3717.1	3713.3	3572.5	3371.5	3247.7	3318.4	3675.0	4472.0	5029.6
50°	3846.4	3872.2	3910.0	3866.1	3741.3	3615.3	3629.0	3979.5	4751.3	5384.0
52.5°	3776.3	3825.1	3928.0	3998.2	4046.4	4020.1	3983.4	4281.9	5014.3	5703.9
55°	3515.0	3583.5	3754.4	3923.7	4169.6	4360.8	4409.0	4617.1	5270.6	5985.5
57.5°	3039.0	3150.2	3303.6	3645.9	4060.1	4525.7	4905.3	5082.2	5542.3	6286.2
60°	2222.8	2371.8	2562.5	3071.9	3676.6	4437.5	5327.6	5796.5	5928.5	6675.6
62.5°	1422.6	1514.6	1689.9	2169.7	2864.8	3985.6	5456.9	6689.3	6583.1	7314.3
65°	973.9	1033.1	1193.6	1463.1	1852.0	2966.7	5110.7	7358.7	7622.7	8326.6
67.5°	707.7	752.6	889.6	1125.7	1206.7	1755.6	3965.8	7328.0	8633.4	9369.6
70°	516.0	547.8	662.8	889.6	928.5	976.7	2402.5	6229.2	8611.4	9646.7
72.5°	382.3	404.3	481.5	690.2	751.5	659.5	1189.2	4527.3	7399.8	8725.4
75°	276.6	293.1	350.0	528.0	601.4	502.3	593.2	2645.7	5161.6	6137.7
77.5°	211.4	224.0	261.3	386.7	481.5	376.9	368.1	1217.1	2447.4	2459.5
80°	169.8	178.0	198.3	272.2	369.2	282.1	239.9	491.3	773.4	654.6
82.5°	124.9	138.6	167.6	191.2	264.0	194.5	146.3	248.1	294.2	253.1
85°	71.2	80.5	101.3	136.9	168.7	118.9	83.8	110.1	136.9	112.3
87.5°	25.2	32.9	35.6	53.7	73.4	49.3	32.3	31.8	44.9	33.4
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°
1513.5	0°	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5
1529.9	2.5°	1524.4	1521.7	1510.7	1496.0	1480.6	1465.8	1460.9	1450.5	1443.4	1439.5
1565.5	5°	1555.1	1546.3	1520.6	1487.7	1453.2	1416.0	1389.7	1365.6	1348.1	1331.6
1614.3	7.5°	1598.9	1583.6	1539.2	1481.7	1420.4	1358.5	1312.5	1277.4	1253.8	1238.5
1671.2	10°	1649.9	1626.3	1558.4	1472.4	1377.6	1288.9	1234.7	1204.5	1189.8	1181.5
1736.4	12.5°	1708.5	1675.1	1578.1	1451.0	1312.5	1211.1	1173.9	1165.1	1165.6	1166.2
1818.6	15°	1780.8	1734.2	1594.0	1404.5	1227.5	1151.4	1144.8	1159.1	1173.9	1181.0
1911.7	17.5°	1862.4	1796.7	1596.7	1327.8	1144.3	1113.1	1133.9	1164.6	1187.0	1196.9
2015.8	20°	1950.1	1860.2	1577.0	1219.3	1075.8	1081.8	1119.1	1158.5	1183.2	1195.8
2134.6	22.5°	2050.3	1928.1	1529.9	1105.4	1019.9	1047.9	1091.7	1130.0	1155.8	1168.4
2274.3	25°	2164.8	2004.3	1456.0	1009.5	971.7	1009.5	1053.4	1085.1	1105.9	1117.4
2430.4	27.5°	2291.9	2083.7	1357.4	933.4	929.6	970.1	1006.2	1030.9	1041.9	1050.6
2596.4	30°	2419.5	2156.0	1238.0	875.9	892.9	931.2	956.9	967.9	971.2	972.8
2781.6	32.5°	2557.5	2218.5	1112.5	828.2	857.8	893.4	908.7	913.7	898.3	887.9
3006.1	35°	2724.6	2285.3	989.8	790.4	823.3	854.0	858.9	854.5	836.4	815.1
3287.7	37.5°	2931.1	2368.5	891.8	763.6	791.0	811.2	805.2	804.1	805.8	780.6
3626.2	40°	3184.2	2477.0	820.0	742.8	764.7	769.1	752.1	761.4	769.6	731.3
3997.6	42.5°	3465.2	2607.9	774.5	728.5	742.8	732.4	706.1	716.5	715.4	665.0
4370.6	45°	3751.7	2750.3	758.7	718.1	722.5	701.7	672.7	675.4	652.4	606.9
4728.3	47.5°	4036.5	2903.2	768.5	709.4	697.3	673.8	651.3	639.2	605.3	571.3
5071.2	50°	4315.9	3063.7	804.7	691.8	662.8	649.1	632.7	611.3	575.2	546.1
5395.5	52.5°	4575.0	3225.3	845.2	662.8	619.5	627.7	617.3	592.7	557.1	527.5
5702.3	55°	4820.4	3386.8	861.1	622.8	579.0	609.1	603.1	557.6	514.9	490.8
6023.2	57.5°	5087.7	3581.3	843.6	571.9	546.1	587.8	564.7	514.4	489.7	471.6
6441.2	60°	5458.0	3886.4	805.8	508.9	514.9	556.0	516.5	495.7	468.9	448.6
7067.8	62.5°	6073.1	4455.5	745.0	446.4	478.2	508.9	493.5	472.7	445.3	425.6
8139.3	65°	6982.4	5246.5	630.5	397.7	437.1	462.9	468.9	448.1	419.6	398.8
9078.1	67.5°	7749.3	5742.8	477.1	357.1	394.9	425.6	442.6	422.3	392.2	371.9
9297.8	70°	7707.1	5382.4	364.3	317.2	357.7	388.9	410.8	394.9	362.6	343.5
8445.5	72.5°	6845.4	4502.6	294.7	276.6	319.9	350.6	376.9	364.8	331.9	313.3
6187.0	75°	5029.1	3196.2	235.5	235.5	272.8	310.6	339.6	331.9	301.8	288.7
2597.5	77.5°	2119.9	1340.9	184.6	195.6	226.8	266.8	302.9	305.7	279.4	295.8
686.9	80°	563.7	369.7	140.8	153.9	178.0	220.2	263.5	262.4	233.9	218.6
255.3	82.5°	214.7	145.7	100.2	108.5	128.7	168.7	208.7	215.3	186.8	161.6
100.2	85°	82.7	62.4	61.9	65.2	75.0	111.7	157.8	163.2	140.8	119.4
27.9	87.5°	21.4	18.6	23.0	21.9	34.5	59.7	90.4	93.7	86.0	49.8
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>
1513.5
1443.9
1338.2
1241.8
1183.7
1167.3
1180.4
1199.1
1199.1
1171.7
1120.7
1053.9
976.7
891.2
816.2
782.2
732.4
664.4
608.6
571.3
543.9
528.0
488.6
470.0
447.5
425.6
399.9
372.5
345.1
313.3
284.8
268.4
203.2
161.6
123.2
71.2
0.0

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