

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: P946600

Luminaire Tested: **GALN-SB2A-950-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2A-950-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6203 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

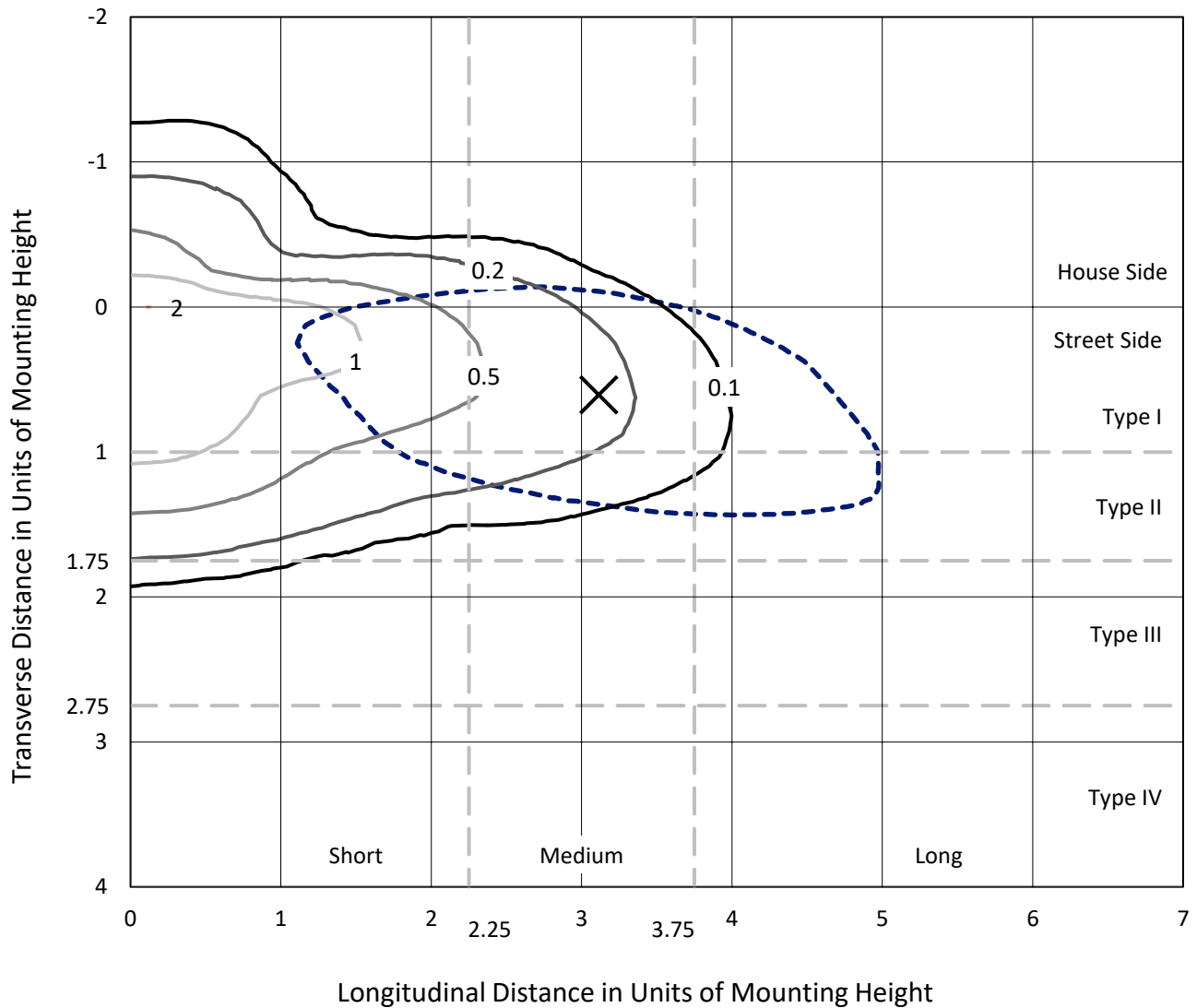
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

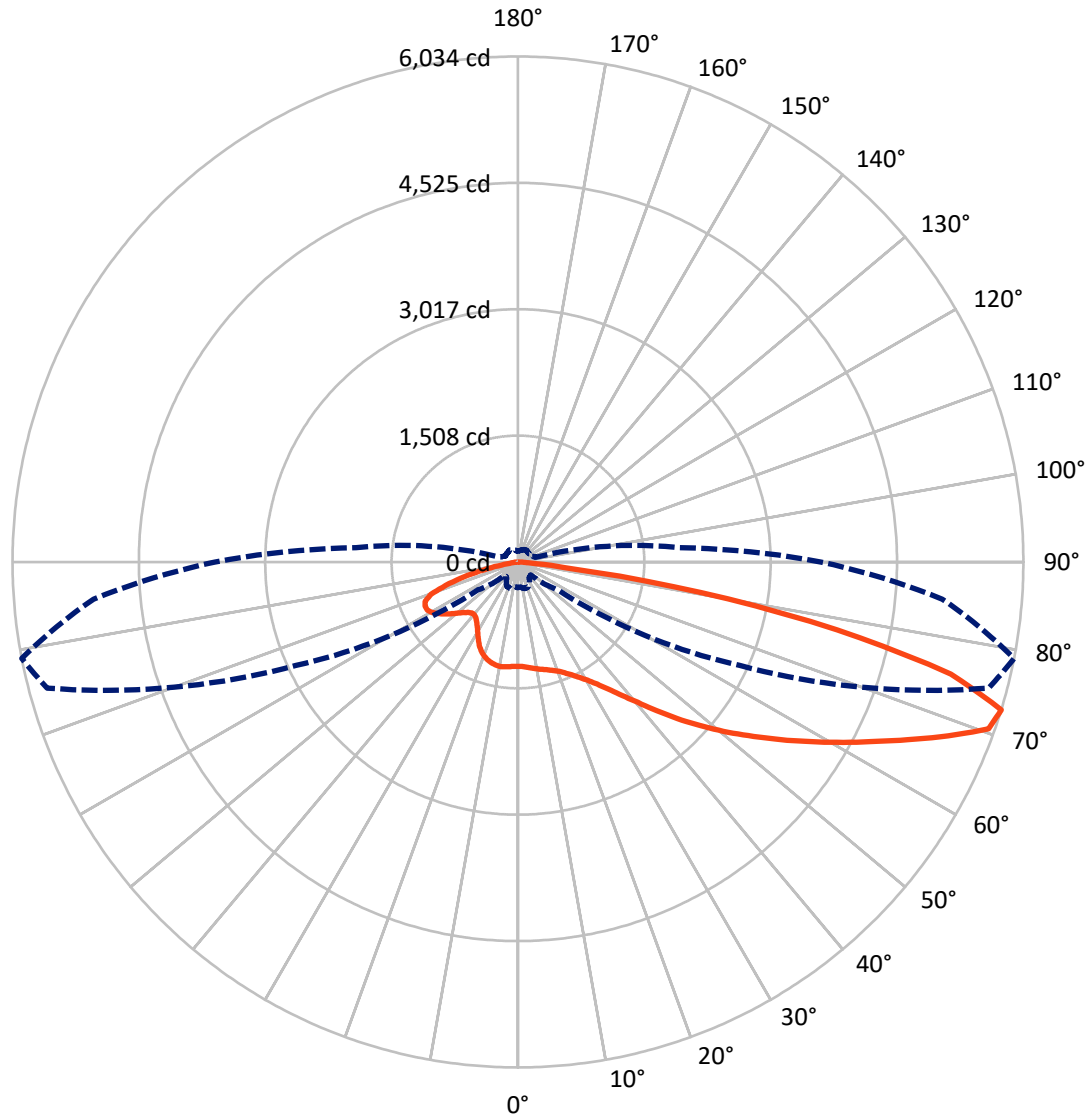
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1365.0	0.0	1365.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	4838.0	0.0	4838.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	6203.0	0.0	6203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	1.8
10°-20°	295.5	4.8
20°-30°	476.8	7.7
30°-40°	715.7	11.5
40°-50°	1015.2	16.4
50°-60°	1282.1	20.7
60°-70°	1302.1	21.0
70°-80°	887.5	14.3
80°-90°	115.1	1.9
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°	6203.0	100.0
0°-180°	6203.0	100.0

Coefficient of Utilization



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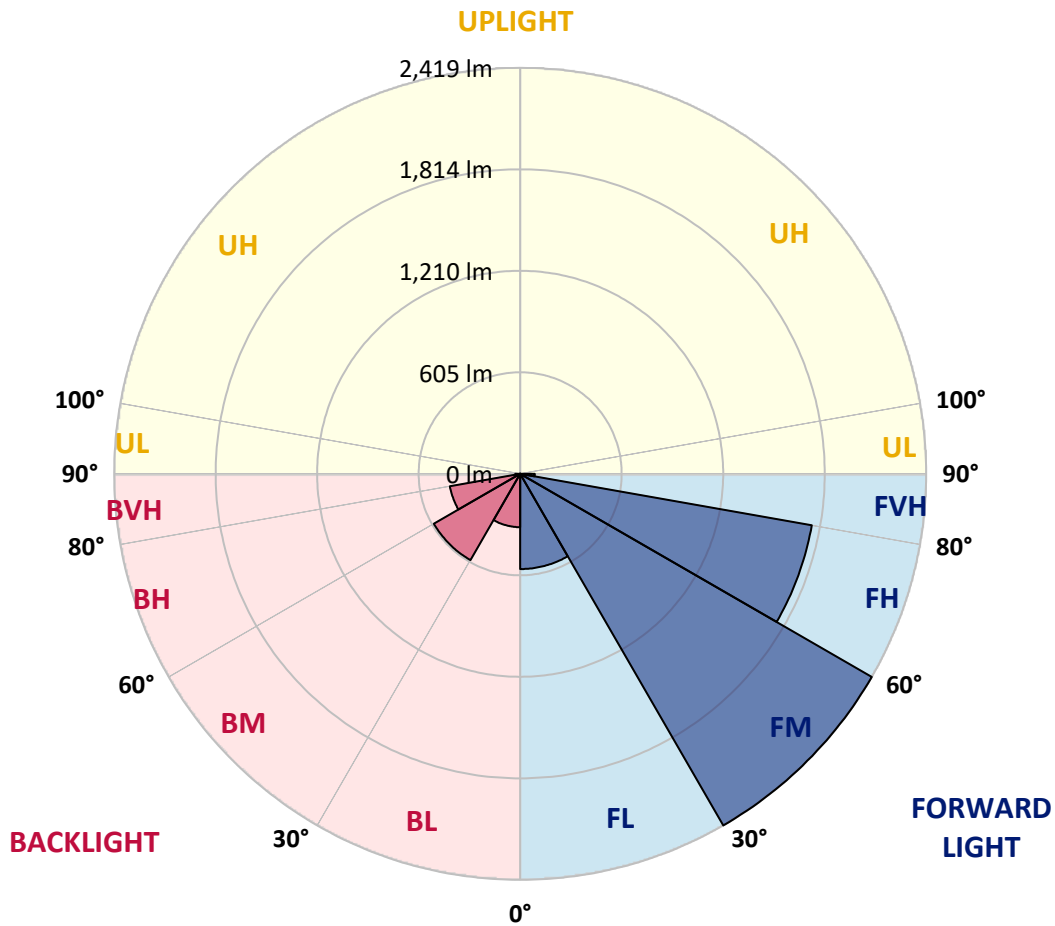
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.4	9.1			
FM (30°-60°)	2419.3	39.0			
FH (60°-80°)	1764.5	28.4			G1/1800
FVH (80°-90°)	86.7	1.4			G1/100
BL (0°-30°)	317.9	5.1	B1/500		
BM (30°-60°)	593.6	9.6	B1/1000		
BH (60°-80°)	425.0	6.9	B1/500		G1/500
BVH (80°-90°)	28.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2
2.5°	1245.8	1239.9	1243.6	1242.2	1243.9	1245.8	1246.5	1247.5	1250.8	1250.4
5°	1243.2	1237.3	1242.2	1240.6	1244.9	1249.5	1253.4	1257.0	1262.3	1264.6
7.5°	1237.6	1233.7	1238.6	1243.6	1251.4	1258.3	1263.9	1272.1	1279.6	1281.0
10°	1205.2	1202.2	1213.7	1226.5	1248.1	1266.8	1279.0	1288.5	1296.7	1298.0
12.5°	1171.4	1167.8	1180.6	1197.9	1233.1	1266.8	1292.4	1304.9	1312.1	1316.4
15°	1165.8	1162.8	1170.1	1185.1	1214.4	1258.0	1301.6	1324.6	1330.8	1335.8
17.5°	1192.7	1187.1	1190.1	1195.3	1212.4	1249.8	1308.8	1346.9	1356.4	1361.7
20°	1255.0	1247.2	1242.6	1232.1	1229.1	1251.1	1308.2	1373.8	1386.3	1392.8
22.5°	1338.0	1332.8	1323.0	1296.4	1267.5	1267.2	1320.7	1408.3	1431.6	1437.8
25°	1438.5	1430.6	1418.1	1382.0	1326.6	1299.0	1341.7	1452.2	1491.3	1492.9
27.5°	1553.9	1542.1	1525.1	1477.5	1402.7	1348.9	1373.8	1502.8	1559.9	1559.2
30°	1675.7	1663.9	1645.8	1588.1	1493.9	1416.1	1418.4	1557.2	1641.2	1637.6
32.5°	1764.6	1755.7	1752.1	1707.5	1598.9	1495.5	1469.6	1617.6	1741.6	1738.3
35°	1832.8	1821.4	1825.6	1803.0	1713.4	1584.5	1532.3	1689.5	1863.7	1863.4
37.5°	1900.4	1890.3	1893.9	1878.8	1819.4	1697.3	1608.7	1777.4	2014.9	2022.2
40°	1962.1	1951.3	1965.7	1951.6	1901.7	1817.4	1695.7	1876.8	2190.2	2203.9
42.5°	1999.2	1990.7	2014.6	2014.9	1973.3	1918.8	1791.2	1986.4	2392.9	2423.8
45°	2012.0	2009.0	2045.1	2052.7	2036.6	1977.5	1877.1	2105.8	2611.5	2666.6
47.5°	1998.2	1992.6	2042.5	2070.4	2083.2	2005.1	1948.3	2235.1	2834.6	2915.3
50°	1928.7	1917.8	1992.0	2050.7	2096.3	2023.2	2020.2	2384.4	3088.2	3176.5
52.5°	1803.6	1795.4	1879.8	1981.8	2067.4	2032.0	2100.9	2547.5	3329.0	3443.2
55°	1643.9	1633.0	1725.9	1859.1	1995.6	2029.1	2181.6	2729.9	3613.2	3729.0
57.5°	1390.5	1368.9	1486.4	1643.9	1878.5	2025.4	2265.6	2911.4	3901.9	4040.7
60°	1021.1	988.9	1133.0	1319.7	1649.4	1990.3	2369.6	3114.8	4248.4	4373.4
62.5°	594.5	575.8	670.0	844.2	1243.2	1783.6	2428.0	3351.4	4589.0	4720.3
65°	461.7	456.4	464.6	478.1	692.0	1335.4	2247.9	3582.0	5022.1	5114.0
67.5°	422.3	418.3	422.0	396.7	351.1	743.8	1778.4	3640.4	5486.1	5541.8
70°	375.4	370.8	382.6	360.9	276.3	338.3	1149.1	3428.5	5855.2	5959.9
72.5°	305.8	300.6	328.1	318.3	232.6	217.2	577.2	2924.8	5816.5	6033.7
75°	234.9	232.0	264.8	273.0	189.6	170.9	276.9	2174.1	5118.6	5337.4
77.5°	182.4	180.1	196.9	226.7	152.9	132.6	170.3	1379.1	3857.3	3895.7
80°	136.8	130.3	145.7	175.5	119.1	96.8	115.5	804.2	2438.2	2210.2
82.5°	85.6	82.4	95.2	117.1	84.0	66.6	75.1	444.3	977.1	575.5
85°	48.9	47.6	51.8	66.9	45.6	38.4	43.0	196.2	178.5	122.7
87.5°	19.7	19.0	23.6	29.9	16.7	14.1	15.1	47.2	39.4	36.4
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°
1245.2	0°	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2
1250.1	2.5°	1248.8	1248.8	1244.2	1237.0	1228.8	1223.5	1215.0	1212.7	1203.9	1201.2
1261.3	5°	1263.9	1261.3	1247.2	1226.8	1198.9	1173.3	1145.1	1127.4	1102.5	1093.6
1283.3	7.5°	1282.9	1275.7	1251.4	1206.8	1148.4	1091.0	1031.3	986.0	942.7	927.3
1301.3	10°	1300.3	1290.1	1248.8	1170.7	1069.7	970.2	875.1	808.5	757.9	737.3
1321.3	12.5°	1317.7	1299.0	1231.4	1110.7	957.8	822.9	721.5	669.7	638.5	613.6
1337.7	15°	1334.1	1307.9	1204.5	1030.3	835.1	698.2	623.4	582.1	557.1	540.7
1361.7	17.5°	1353.1	1315.4	1164.1	928.2	718.2	611.9	550.9	526.0	521.0	519.1
1394.5	20°	1379.7	1322.3	1111.0	814.1	632.3	543.0	511.5	509.2	508.9	507.9
1433.9	22.5°	1408.3	1330.5	1040.8	710.4	559.1	500.0	494.5	489.9	486.9	486.6
1481.4	25°	1442.1	1333.1	952.8	625.4	496.8	479.7	473.1	466.3	464.3	464.3
1535.6	27.5°	1474.9	1324.3	850.5	551.6	461.7	461.0	452.5	450.2	449.8	450.8
1597.3	30°	1507.7	1307.5	748.8	483.3	441.3	441.3	438.4	440.0	441.3	444.6
1681.9	32.5°	1552.0	1289.8	663.8	432.8	423.6	420.3	423.3	426.5	427.9	432.1
1793.1	35°	1616.9	1277.3	596.2	405.2	405.2	401.0	402.6	401.9	399.0	397.0
1927.7	37.5°	1702.9	1276.7	540.4	392.4	389.8	389.1	389.5	385.2	373.7	359.9
2090.4	40°	1806.3	1294.4	497.4	383.6	381.6	385.5	383.6	372.1	340.6	316.6
2290.6	42.5°	1945.1	1344.9	469.9	372.7	378.6	383.6	375.7	336.0	314.7	298.6
2518.6	45°	2108.5	1427.0	455.8	361.3	373.1	379.0	340.9	323.5	306.5	287.1
2767.3	47.5°	2293.5	1530.3	452.5	350.4	360.6	364.2	326.1	318.3	298.9	277.9
3017.3	50°	2495.0	1652.7	461.3	337.6	342.6	330.1	321.2	314.0	294.0	273.3
3273.6	52.5°	2703.3	1787.6	479.0	320.2	324.5	310.7	319.3	313.0	291.0	263.1
3538.4	55°	2908.1	1923.4	496.1	299.9	306.1	293.3	313.7	309.1	277.6	246.1
3820.9	57.5°	3116.1	2058.6	512.8	281.9	288.4	276.6	304.8	298.6	262.5	230.3
4129.3	60°	3332.3	2189.8	520.7	264.5	269.1	261.2	291.4	280.5	245.4	214.3
4432.5	62.5°	3534.8	2299.1	507.9	247.1	250.0	246.7	273.6	259.2	228.4	196.2
4748.5	65°	3737.9	2364.1	468.5	230.0	230.7	229.0	248.7	236.2	208.4	180.5
5025.1	67.5°	3921.9	2400.5	405.9	211.6	210.0	209.3	225.4	211.3	189.0	164.7
5235.4	70°	3961.0	2308.0	310.1	190.0	190.0	188.3	199.8	185.4	167.7	148.0
5084.8	72.5°	3617.8	1941.5	220.2	165.4	168.0	164.7	174.2	162.1	146.0	132.9
4382.3	75°	2917.3	1423.7	160.1	140.1	144.7	139.1	148.0	139.4	125.7	125.3
3020.0	77.5°	2004.4	880.3	116.2	115.5	118.8	111.6	121.7	117.1	104.7	99.1
1314.4	80°	855.4	351.1	84.7	89.2	89.2	82.7	94.5	95.8	85.0	82.4
253.6	82.5°	170.3	99.7	59.4	61.4	57.7	55.8	66.9	74.2	102.4	113.9
76.5	85°	51.2	36.7	35.8	33.5	29.5	29.9	39.4	74.5	91.9	52.5
25.3	87.5°	14.1	9.2	9.5	7.5	6.2	8.2	13.5	56.4	30.8	13.1
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>
1245.2
1205.5
1100.2
929.2
741.9
621.8
543.7
520.4
511.2
490.2
466.3
453.5
446.9
435.7
401.6
360.3
316.0
297.9
285.8
276.3
271.0
261.2
244.4
229.7
213.3
195.9
178.5
162.7
147.3
128.9
112.9
92.9
82.4
114.2
45.3
11.2
0.0

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