

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: P950813

Luminaire Tested: **GALN-SB5A-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10624 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

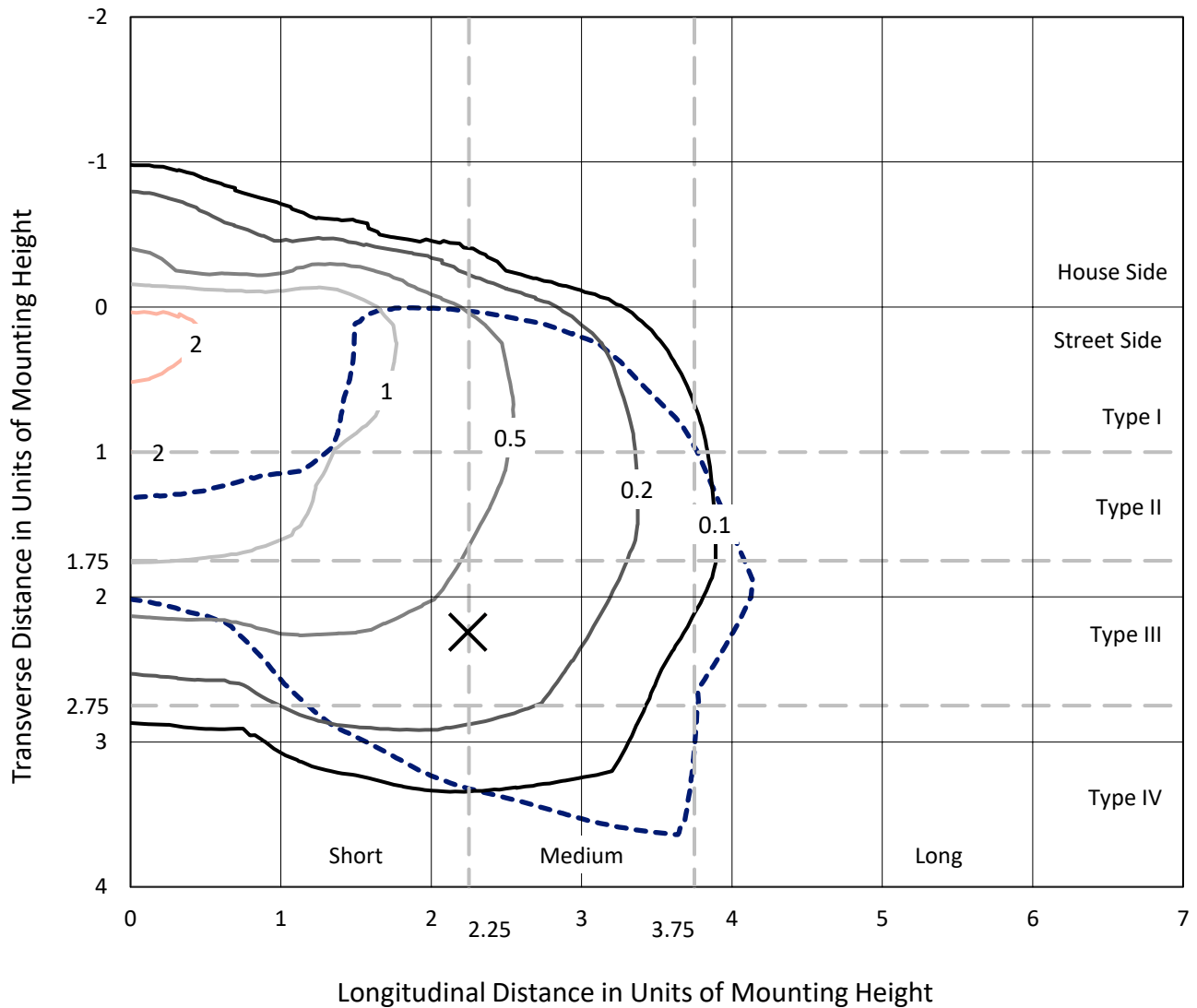
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

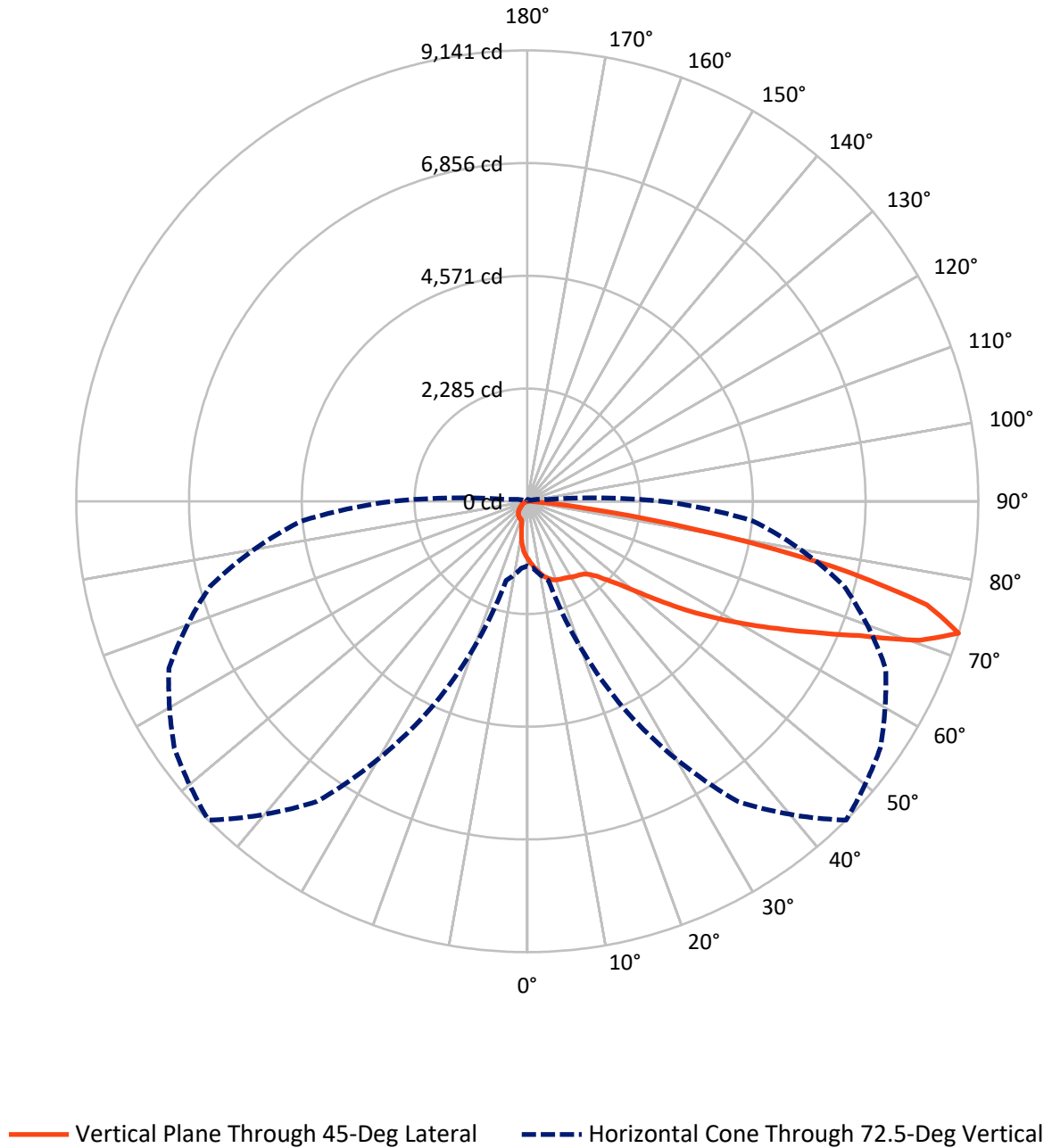
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1116.3	0.0	1116.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	9507.7	0.0	9507.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	10624.0	0.0	10624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	1.0
10°-20°	320.5	3.0
20°-30°	526.3	5.0
30°-40°	746.4	7.0
40°-50°	1233.7	11.6
50°-60°	2216.3	20.9
60°-70°	3077.4	29.0
70°-80°	2232.3	21.0
80°-90°	161.4	1.5
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°	10624.0	100.0
0°-180°	10624.0	100.0

Coefficient of Utilization



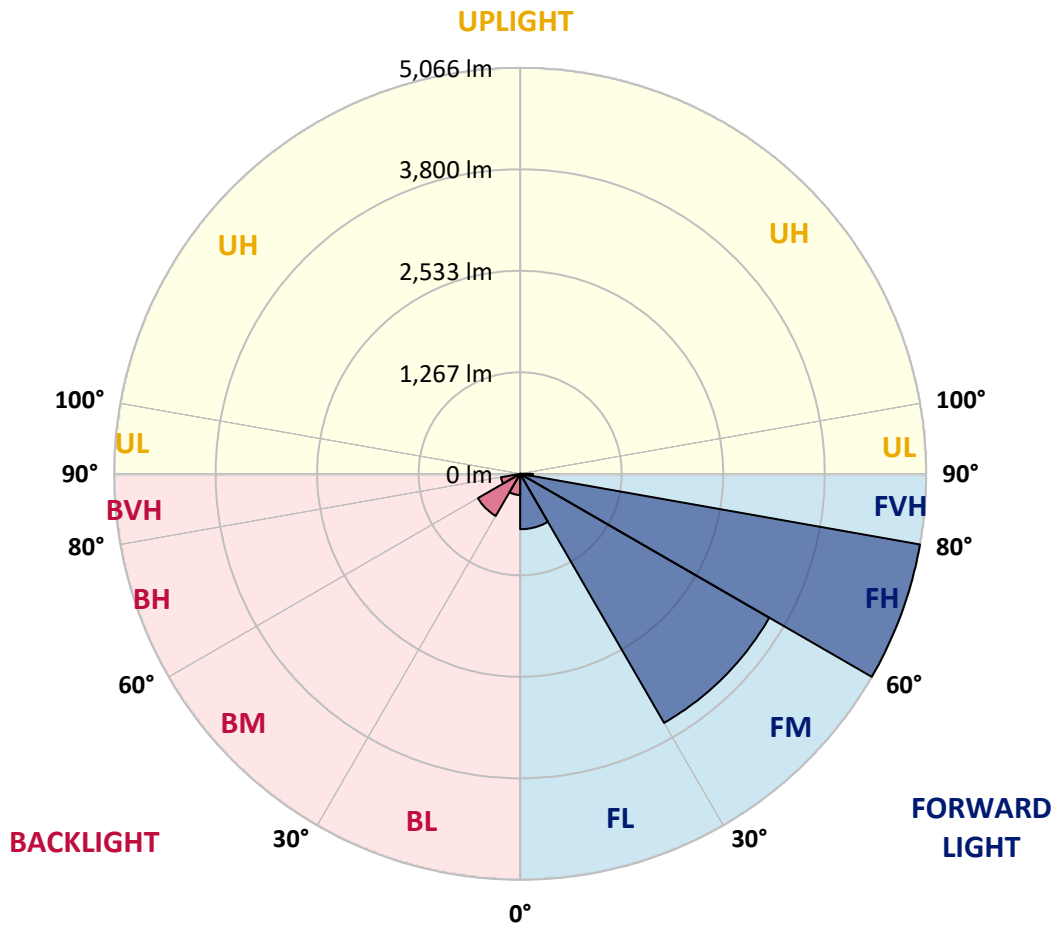
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.1	6.5			
FM (30°-60°)	3589.4	33.8			
FH (60°-80°)	5066.3	47.7			G3/7500
FVH (80°-90°)	160.0	1.5			G2/225
BL (0°-30°)	264.4	2.5	B1/500		
BM (30°-60°)	607.1	5.7	B1/1000		
BH (60°-80°)	243.4	2.3	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1163.9	1163.9	1163.9	1163.9	1163.9	1163.9	1163.9	1163.9	1163.9	1163.9
2.5°	1271.2	1273.4	1271.9	1263.2	1248.7	1240.7	1236.4	1221.9	1212.5	1195.8
5°	1388.0	1396.7	1391.6	1374.2	1346.6	1327.0	1321.2	1291.5	1264.7	1233.5
7.5°	1512.0	1516.3	1506.9	1484.4	1447.4	1414.1	1409.0	1367.7	1324.9	1277.0
10°	1619.3	1624.4	1609.9	1577.2	1535.2	1493.8	1486.6	1440.9	1390.1	1331.4
12.5°	1709.2	1714.3	1695.4	1656.3	1609.9	1567.1	1559.8	1512.0	1456.1	1390.9
15°	1777.4	1786.8	1761.4	1719.4	1669.3	1626.5	1622.9	1575.8	1521.4	1448.9
17.5°	1817.3	1826.7	1802.7	1752.0	1709.2	1672.9	1668.6	1629.4	1578.7	1509.1
20°	1823.8	1832.5	1807.1	1762.9	1727.3	1698.3	1696.1	1667.9	1630.9	1564.2
22.5°	1804.2	1815.1	1791.9	1756.3	1731.7	1716.5	1713.6	1697.6	1676.6	1620.0
25°	1783.9	1792.6	1775.2	1744.0	1731.0	1729.5	1731.7	1728.8	1724.4	1676.6
27.5°	1782.4	1791.9	1772.3	1742.6	1735.3	1750.5	1752.7	1766.5	1770.1	1728.1
30°	1794.8	1801.3	1782.4	1751.3	1747.6	1782.4	1783.2	1807.8	1813.6	1771.6
32.5°	1821.6	1828.9	1810.0	1764.3	1759.2	1807.8	1810.0	1842.6	1852.1	1818.0
35°	1884.7	1893.4	1871.6	1800.6	1782.4	1831.8	1838.3	1876.7	1895.6	1867.3
37.5°	2042.1	2016.7	1986.9	1873.8	1835.4	1869.5	1880.3	1925.3	1958.7	1926.0
40°	2432.9	2353.1	2260.3	1998.5	1928.2	1950.0	1958.7	2003.6	2049.3	2017.4
42.5°	3019.6	2925.3	2775.9	2285.7	2068.2	2079.0	2085.6	2124.7	2189.3	2163.9
45°	3542.4	3508.3	3356.0	2775.9	2329.9	2276.3	2284.3	2304.6	2399.6	2390.1
47.5°	3944.1	3924.6	3807.1	3338.6	2772.3	2517.8	2540.2	2549.7	2686.7	2720.1
50°	4253.1	4245.8	4140.7	3839.0	3350.2	2873.8	2881.8	2861.5	3066.7	3149.4
52.5°	4544.6	4569.2	4491.6	4303.8	3967.4	3340.1	3338.6	3242.9	3519.9	3644.7
55°	4807.8	4816.5	4824.5	4778.1	4588.1	3870.9	3857.1	3700.5	4045.7	4174.7
57.5°	5055.1	5058.7	5129.8	5224.8	5234.2	4440.9	4415.5	4227.7	4620.0	4712.1
60°	5221.2	5237.8	5387.9	5651.9	5767.2	5029.0	5015.2	4823.8	5204.5	5247.3
62.5°	4981.8	5083.4	5461.9	5985.5	6270.5	5680.9	5674.4	5494.5	5819.4	5784.6
65°	4032.6	4204.5	4870.2	6211.0	6764.3	6409.0	6418.4	6226.9	6451.0	6337.9
67.5°	2820.9	3002.2	3789.7	6229.1	7316.1	7263.9	7318.3	7018.1	7121.8	6868.0
70°	1950.7	2044.2	2556.9	5839.0	7746.2	8441.6	8440.1	7989.8	7788.9	7109.5
72.5°	1311.8	1360.4	1660.6	4632.3	7430.0	9141.4	9099.3	8732.4	8013.7	6649.0
75°	553.3	588.8	768.7	2603.3	5878.1	8363.3	8249.4	7717.2	7120.3	5235.7
77.5°	175.5	190.7	303.1	931.8	3237.8	6286.4	6166.0	4819.4	4772.3	2626.5
80°	83.4	97.2	170.4	374.2	1274.1	3419.1	3402.5	2186.4	2052.9	709.2
82.5°	36.3	42.8	94.3	200.1	570.0	1219.7	1244.4	744.0	615.7	269.0
85°	11.6	15.2	43.5	92.1	240.8	303.1	299.5	176.9	248.0	146.5
87.5°	0.0	0.0	14.5	21.0	24.7	17.4	19.6	15.2	68.9	40.6
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°
1163.9	0°	1163.9	1163.9	1163.9	1163.9	1163.9	1163.9	1163.9	1163.9	1163.9	1163.9
1178.4	2.5°	1169.7	1158.1	1137.8	1118.9	1102.2	1085.6	1075.4	1060.9	1059.5	1059.5
1197.2	5°	1177.7	1158.8	1122.5	1084.1	1039.9	997.8	955.8	915.2	902.1	892.7
1227.7	7.5°	1200.9	1171.1	1113.8	1040.6	956.5	864.4	799.9	730.2	703.4	688.9
1268.3	10°	1234.2	1193.6	1106.6	978.2	841.9	716.5	624.4	548.9	519.9	507.6
1312.5	12.5°	1271.2	1221.2	1093.5	900.6	716.5	566.3	476.4	441.6	437.3	437.3
1365.5	15°	1315.4	1254.5	1071.1	809.3	585.2	448.1	416.2	417.7	422.0	424.9
1417.0	17.5°	1361.1	1290.1	1035.5	707.0	469.2	403.2	403.9	406.1	409.7	412.6
1472.8	20°	1410.4	1325.6	988.4	598.3	402.5	390.1	392.3	394.5	397.4	398.8
1525.0	22.5°	1463.4	1358.9	932.6	491.7	380.0	379.3	380.0	382.2	385.8	385.8
1585.9	25°	1519.9	1395.9	868.7	414.1	368.4	368.4	369.8	371.3	374.2	374.2
1644.7	27.5°	1577.9	1430.0	801.3	373.5	358.2	357.5	357.5	359.7	361.1	361.9
1702.7	30°	1641.8	1469.9	733.9	364.8	350.3	346.6	344.5	345.9	347.4	348.1
1763.6	32.5°	1707.0	1508.3	673.7	368.4	342.3	335.7	328.5	327.0	327.0	329.9
1826.7	35°	1779.5	1550.4	627.3	380.7	337.9	319.8	308.2	301.7	302.4	306.7
1902.1	37.5°	1866.6	1601.2	593.2	391.6	335.0	301.7	282.8	274.8	269.8	274.8
2005.8	40°	1980.4	1675.8	568.5	400.3	331.4	280.6	255.3	242.2	232.8	235.7
2166.8	42.5°	2147.9	1793.3	559.1	401.0	323.4	256.0	227.0	209.6	195.8	196.5
2409.0	45°	2382.9	1979.0	607.7	391.6	306.0	229.2	197.2	174.0	165.3	163.2
2770.8	47.5°	2704.8	2249.4	720.1	372.0	280.6	203.0	168.2	148.7	142.1	138.5
3245.8	50°	3136.3	2596.8	844.8	350.3	255.3	178.4	144.3	132.0	127.6	124.0
3809.3	52.5°	3636.7	2949.2	947.1	328.5	229.9	156.6	129.1	121.8	118.2	115.3
4353.1	55°	4095.7	3192.2	941.3	305.3	205.2	139.2	118.2	113.9	109.5	106.6
4821.6	57.5°	4381.4	3226.2	775.9	279.9	176.9	125.5	108.0	105.1	100.1	96.4
5227.0	60°	4512.7	3031.9	543.9	246.6	148.7	112.4	97.2	95.7	89.2	84.1
5610.6	62.5°	4536.6	2670.8	362.6	205.2	124.0	100.1	86.3	84.1	75.4	66.7
5922.4	65°	4439.4	2154.5	250.9	160.3	105.9	87.0	74.0	69.6	60.2	51.5
5996.3	67.5°	4132.0	1512.7	174.8	115.3	89.9	68.9	58.7	57.3	50.0	42.8
5619.3	70°	3568.5	862.2	116.8	86.3	71.1	47.1	46.4	47.9	40.6	34.8
4591.0	72.5°	2736.0	394.5	72.5	63.1	48.6	31.9	37.0	37.7	31.2	26.1
2864.4	75°	1610.6	169.0	45.7	40.6	24.7	21.0	26.8	27.6	21.0	16.7
1047.1	77.5°	548.2	63.8	29.0	23.9	12.3	11.6	17.4	17.4	11.6	6.5
210.3	80°	124.7	23.9	14.5	9.4	5.8	5.1	5.8	5.1	2.9	0.7
64.5	82.5°	35.5	9.4	5.8	3.6	2.2	2.2	0.7	0.0	0.0	0.0
22.5	85°	10.2	4.4	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
8.0	87.5°	4.4	0.7	0.0	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>
1163.9
1063.1
897.0
691.1
507.6
437.3
424.9
412.6
399.6
387.2
374.9
362.6
349.5
332.1
308.9
273.4
234.2
193.6
160.3
136.3
123.3
114.6
105.1
95.7
82.7
62.4
48.6
40.6
31.9
23.2
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