

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: P949742

Luminaire Tested: **GALN-SB4B-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949742
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-SB4B-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA 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: 10581 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

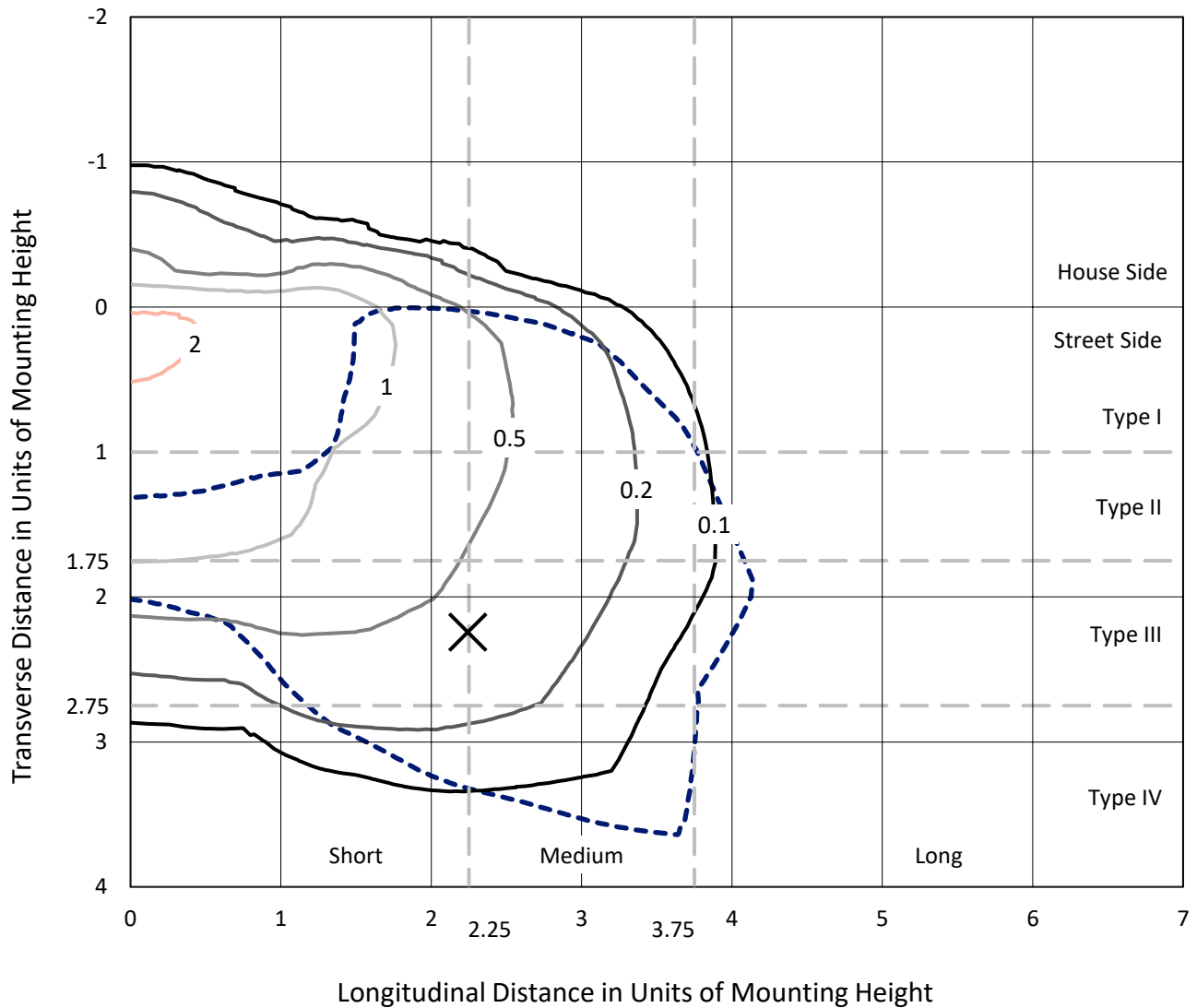
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

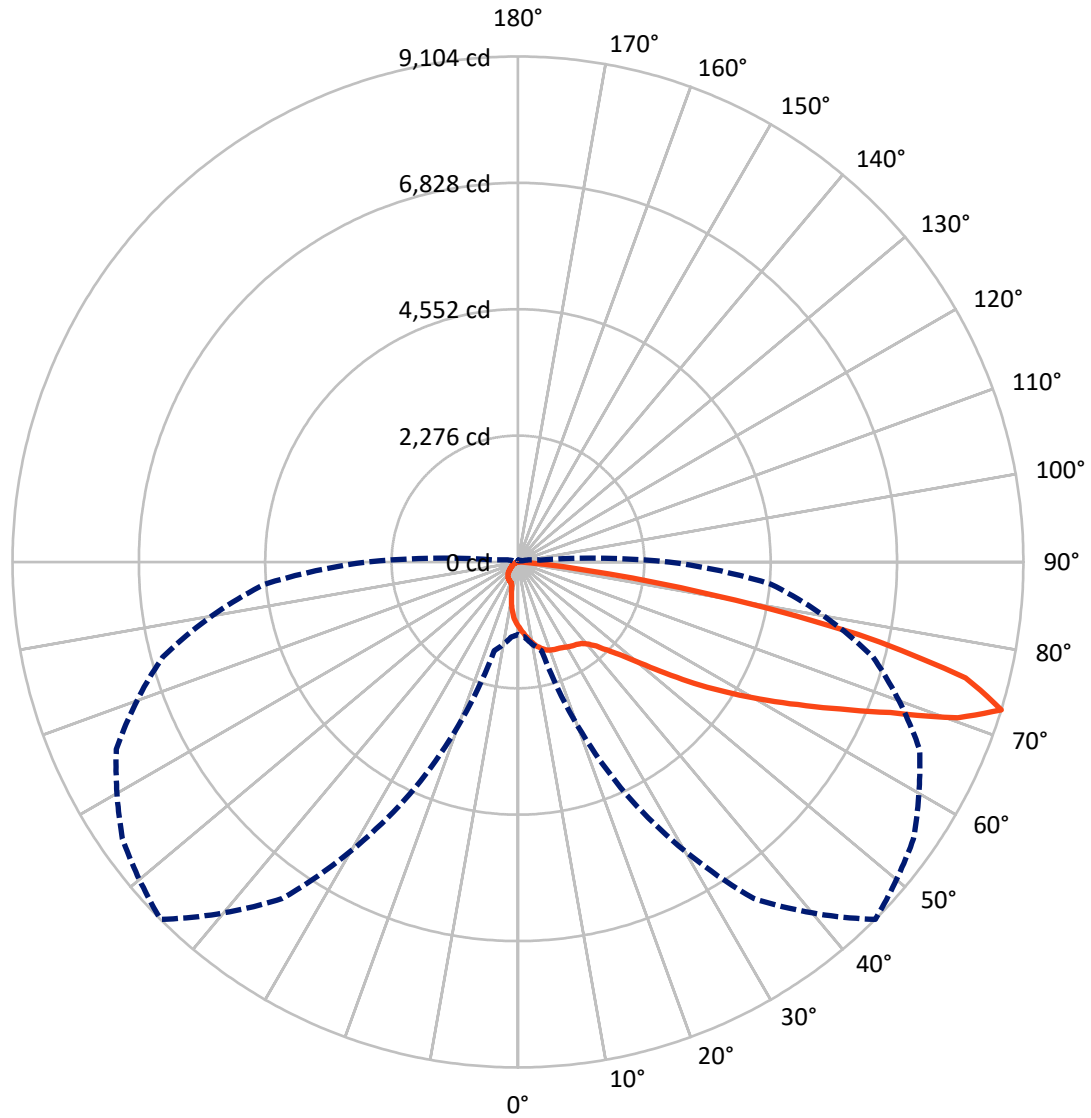
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1111.8	0.0	1111.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	9469.2	0.0	9469.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	10581.0	0.0	10581.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	1.0
10°-20°	319.2	3.0
20°-30°	524.2	5.0
30°-40°	743.4	7.0
40°-50°	1228.8	11.6
50°-60°	2207.3	20.9
60°-70°	3065.0	29.0
70°-80°	2223.2	21.0
80°-90°	160.7	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°	10581.0	100.0
0°-180°	10581.0	100.0

Coefficient of Utilization



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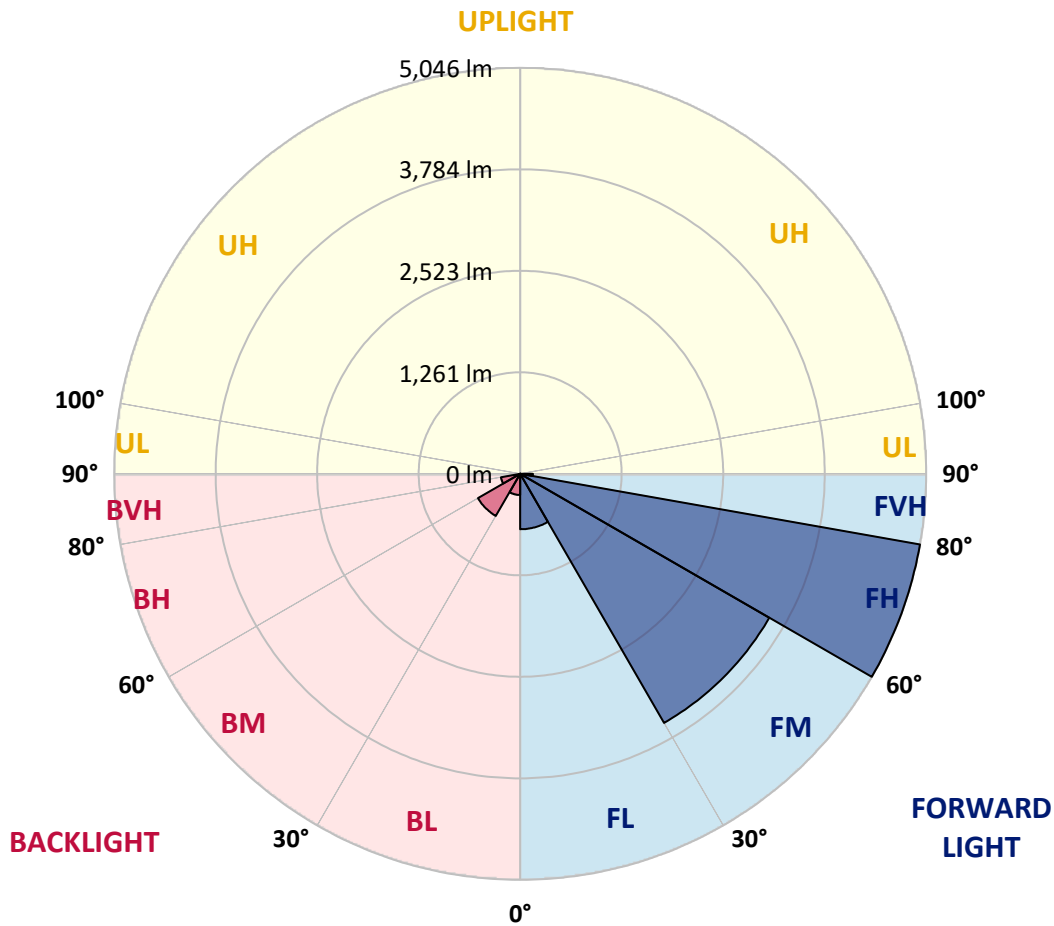
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.2	6.5			
FM (30°-60°)	3574.8	33.8			
FH (60°-80°)	5045.8	47.7			G3/7500
FVH (80°-90°)	159.4	1.5			G2/225
BL (0°-30°)	263.3	2.5	B1/500		
BM (30°-60°)	604.6	5.7	B1/1000		
BH (60°-80°)	242.4	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	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°	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2
2.5°	1266.1	1268.2	1266.8	1258.1	1243.7	1235.7	1231.4	1216.9	1207.6	1190.9
5°	1382.3	1391.0	1385.9	1368.6	1341.2	1321.7	1315.9	1286.3	1259.6	1228.5
7.5°	1505.8	1510.2	1500.8	1478.4	1441.6	1408.3	1403.3	1362.1	1319.5	1271.8
10°	1612.7	1617.8	1603.3	1570.8	1529.0	1487.8	1480.6	1435.1	1384.5	1326.0
12.5°	1702.3	1707.3	1688.6	1649.6	1603.3	1560.7	1553.5	1505.8	1450.2	1385.2
15°	1770.2	1779.6	1754.3	1712.4	1662.6	1620.0	1616.3	1569.4	1515.2	1443.0
17.5°	1809.9	1819.3	1795.5	1744.9	1702.3	1666.2	1661.8	1622.8	1572.3	1503.0
20°	1816.4	1825.1	1799.8	1755.7	1720.3	1691.5	1689.3	1661.1	1624.3	1557.8
22.5°	1796.9	1807.7	1784.6	1749.2	1724.7	1709.5	1706.6	1690.7	1669.8	1613.5
25°	1776.7	1785.3	1768.0	1737.0	1724.0	1722.5	1724.7	1721.8	1717.5	1669.8
27.5°	1775.2	1784.6	1765.1	1735.5	1728.3	1743.5	1745.6	1759.3	1763.0	1721.1
30°	1787.5	1794.0	1775.2	1744.2	1740.6	1775.2	1776.0	1800.5	1806.3	1764.4
32.5°	1814.2	1821.5	1802.7	1757.2	1752.1	1800.5	1802.7	1835.2	1844.6	1810.6
35°	1877.1	1885.7	1864.1	1793.3	1775.2	1824.3	1830.8	1869.1	1887.9	1859.7
37.5°	2033.8	2008.5	1978.9	1866.2	1828.0	1861.9	1872.7	1917.5	1950.7	1918.2
40°	2423.1	2343.6	2251.2	1990.5	1920.4	1942.1	1950.7	1995.5	2041.0	2009.2
42.5°	3007.3	2913.5	2764.7	2276.5	2059.8	2070.6	2077.1	2116.1	2180.4	2155.1
45°	3528.1	3494.1	3342.5	2764.7	2320.5	2267.1	2275.0	2295.2	2389.8	2380.5
47.5°	3928.2	3908.7	3791.7	3325.1	2761.1	2507.6	2530.0	2539.3	2675.8	2709.1
50°	4235.8	4228.6	4123.9	3823.5	3336.7	2862.2	2870.1	2849.9	3054.3	3136.6
52.5°	4526.2	4550.7	4473.5	4286.4	3951.3	3326.6	3325.1	3229.8	3505.7	3629.9
55°	4788.4	4797.0	4805.0	4758.7	4569.5	3855.2	3841.5	3685.5	4029.3	4157.8
57.5°	5034.6	5038.2	5109.0	5203.6	5213.0	4422.9	4397.6	4210.6	4601.3	4693.0
60°	5200.0	5216.6	5366.1	5629.0	5743.9	5008.6	4994.9	4804.2	5183.4	5226.0
62.5°	4961.7	5062.8	5439.8	5961.2	6245.1	5657.9	5651.4	5472.3	5795.9	5761.2
65°	4016.3	4187.5	4850.5	6185.9	6736.9	6383.0	6392.4	6201.7	6424.9	6312.2
67.5°	2809.5	2990.0	3774.3	6203.9	7286.5	7234.5	7288.7	6989.7	7093.0	6840.2
70°	1942.8	2036.0	2546.6	5815.4	7714.8	8407.4	8406.0	7957.5	7757.4	7080.7
72.5°	1306.5	1354.9	1653.9	4613.6	7399.9	9104.4	9062.5	8697.0	7981.3	6622.1
75°	551.1	586.4	765.6	2592.8	5854.4	8329.4	8216.0	7685.9	7091.5	5214.5
77.5°	174.8	189.9	301.9	928.1	3224.7	6261.0	6141.1	4799.9	4753.0	2615.9
80°	83.1	96.8	169.7	372.7	1268.9	3405.3	3388.7	2177.5	2044.6	706.3
82.5°	36.1	42.6	93.9	199.3	567.7	1214.8	1239.3	741.0	613.2	267.9
85°	11.6	15.2	43.3	91.7	239.8	301.9	298.3	176.2	247.0	145.9
87.5°	0.0	0.0	14.4	20.9	24.6	17.3	19.5	15.2	68.6	40.4
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°
1159.2	0°	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2
1173.6	2.5°	1164.9	1153.4	1133.2	1114.4	1097.8	1081.2	1071.1	1056.6	1055.2	1055.2
1192.4	5°	1172.9	1154.1	1118.0	1079.7	1035.7	993.8	951.9	911.4	898.4	889.1
1222.7	7.5°	1196.0	1166.4	1109.3	1036.4	952.6	860.9	796.6	727.3	700.6	686.1
1263.2	10°	1229.2	1188.8	1102.1	974.3	838.5	713.6	621.8	546.7	517.8	505.6
1307.2	12.5°	1266.1	1216.2	1089.1	897.0	713.6	564.1	474.5	439.8	435.5	435.5
1359.9	15°	1310.1	1249.4	1066.7	806.0	582.8	446.3	414.6	416.0	420.3	423.2
1411.2	17.5°	1355.6	1284.8	1031.3	704.2	467.3	401.6	402.3	404.4	408.1	410.9
1466.8	20°	1404.7	1320.2	984.4	595.8	400.8	388.6	390.7	392.9	395.8	397.2
1518.8	22.5°	1457.4	1353.4	928.8	489.7	378.4	377.7	378.4	380.6	384.2	384.2
1579.5	25°	1513.8	1390.3	865.2	412.4	366.9	366.9	368.3	369.8	372.7	372.7
1638.0	27.5°	1571.6	1424.2	798.1	371.9	356.8	356.1	356.1	358.2	359.7	360.4
1695.8	30°	1635.1	1463.9	730.9	363.3	348.8	345.2	343.1	344.5	345.9	346.7
1756.5	32.5°	1700.1	1502.2	670.9	366.9	340.9	334.4	327.2	325.7	325.7	328.6
1819.3	35°	1772.3	1544.1	624.7	379.2	336.6	318.5	306.9	300.4	301.2	305.5
1894.4	37.5°	1859.0	1594.7	590.8	390.0	333.7	300.4	281.7	273.7	268.7	273.7
1997.7	40°	1972.4	1669.1	566.2	398.7	330.1	279.5	254.2	241.2	231.8	234.7
2158.0	42.5°	2139.2	1786.1	556.8	399.4	322.1	254.9	226.1	208.7	195.0	195.7
2399.2	45°	2373.2	1971.0	605.2	390.0	304.8	228.2	196.4	173.3	164.7	162.5
2759.6	47.5°	2693.9	2240.3	717.2	370.5	279.5	202.2	167.6	148.1	141.6	137.9
3232.7	50°	3123.6	2586.3	841.4	348.8	254.2	177.7	143.7	131.4	127.1	123.5
3793.8	52.5°	3622.0	2937.3	943.2	327.2	228.9	156.0	128.6	121.3	117.7	114.8
4335.5	55°	4079.1	3179.2	937.4	304.1	204.4	138.7	117.7	113.4	109.1	106.2
4802.1	57.5°	4363.7	3213.2	772.8	278.8	176.2	124.9	107.6	104.7	99.7	96.1
5205.8	60°	4494.4	3019.6	541.7	245.6	148.1	111.9	96.8	95.3	88.8	83.8
5587.9	62.5°	4518.2	2660.0	361.1	204.4	123.5	99.7	85.9	83.8	75.1	66.4
5898.4	65°	4421.5	2145.7	249.9	159.6	105.4	86.7	73.7	69.3	59.9	51.3
5972.1	67.5°	4115.2	1506.6	174.1	114.8	89.6	68.6	58.5	57.1	49.8	42.6
5596.5	70°	3554.1	858.7	116.3	85.9	70.8	46.9	46.2	47.7	40.4	34.7
4572.4	72.5°	2725.0	392.9	72.2	62.8	48.4	31.8	36.8	37.6	31.1	26.0
2852.8	75°	1604.1	168.3	45.5	40.4	24.6	20.9	26.7	27.4	20.9	16.6
1042.9	77.5°	546.0	63.6	28.9	23.8	12.3	11.6	17.3	17.3	11.6	6.5
209.4	80°	124.2	23.8	14.4	9.4	5.8	5.1	5.8	5.1	2.9	0.7
64.3	82.5°	35.4	9.4	5.8	3.6	2.2	2.2	0.7	0.0	0.0	0.0
22.4	85°	10.1	4.3	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
7.9	87.5°	4.3	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

180°
1159.2
1058.8
893.4
688.3
505.6
435.5
423.2
410.9
397.9
385.7
373.4
361.1
348.1
330.8
307.7
272.3
233.3
192.8
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