

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: P947326

Luminaire Tested: **GALN-SB2C-950-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10696 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

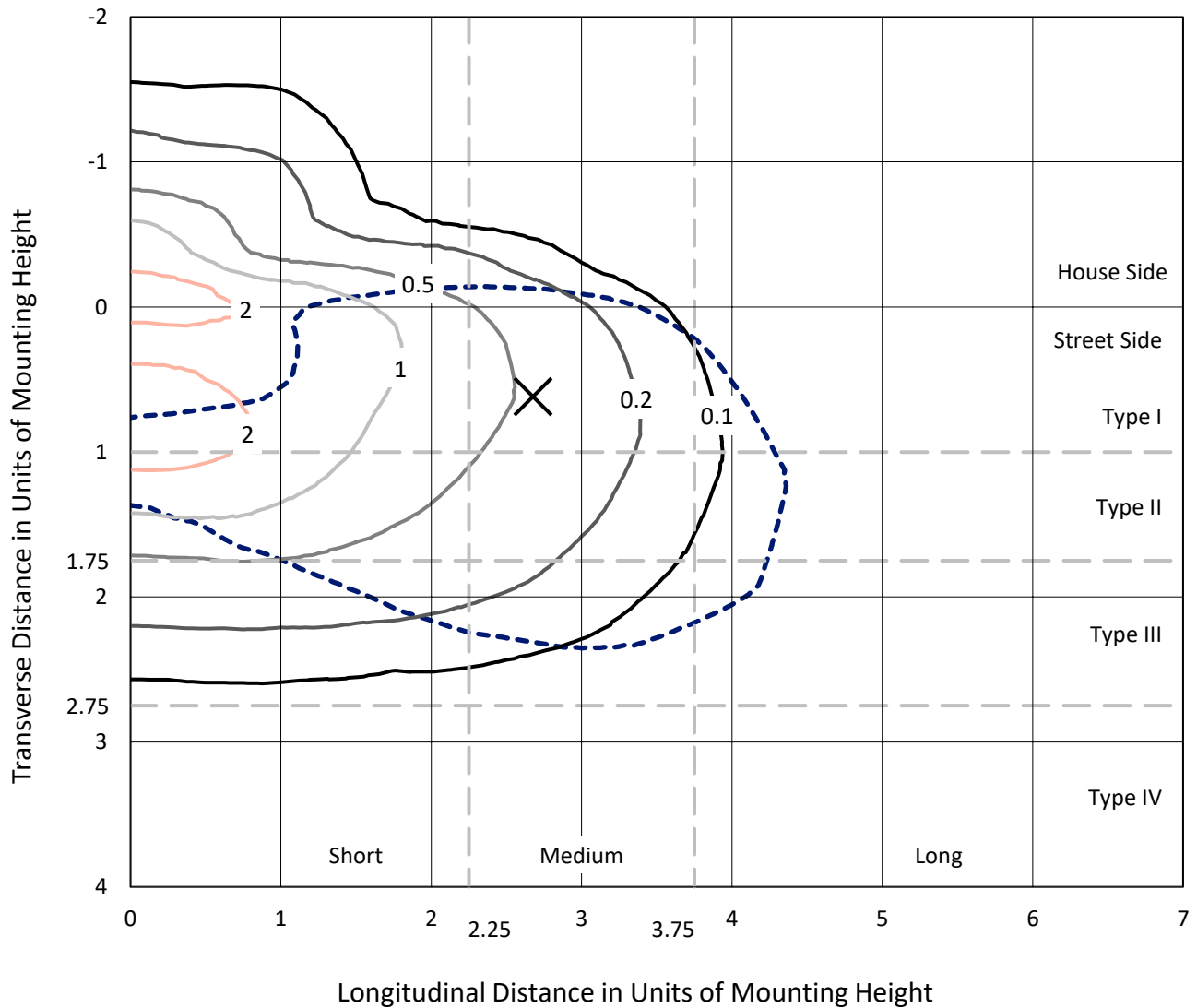
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

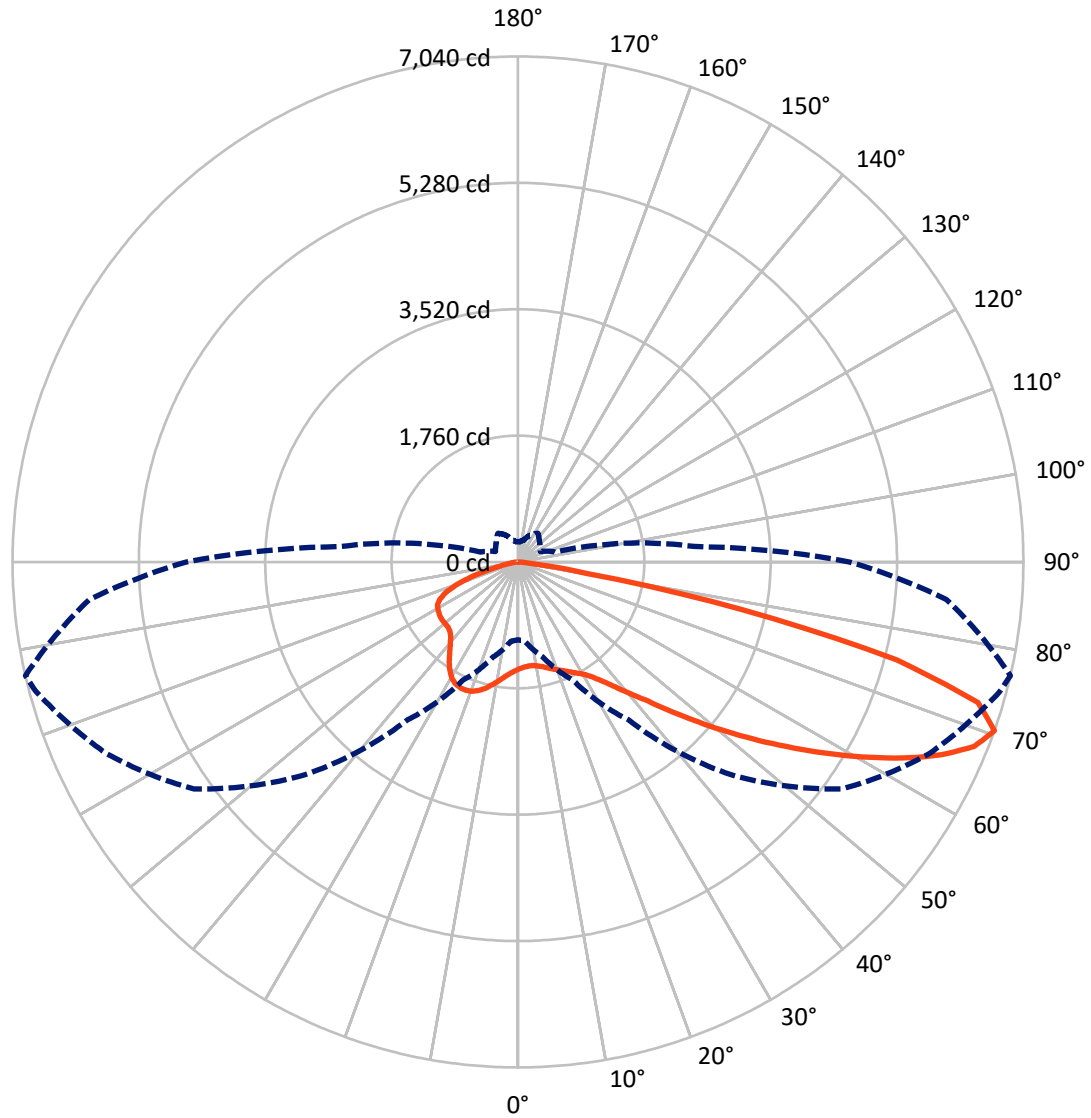
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2342.3	0.0	2342.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	8353.7	0.0	8353.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	10696.0	0.0	10696.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	1.3
10°-20°	410.7	3.8
20°-30°	702.4	6.6
30°-40°	1129.6	10.6
40°-50°	1763.5	16.5
50°-60°	2355.7	22.0
60°-70°	2510.8	23.5
70°-80°	1545.6	14.5
80°-90°	135.4	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°	10696.0	100.0
0°-180°	10696.0	100.0



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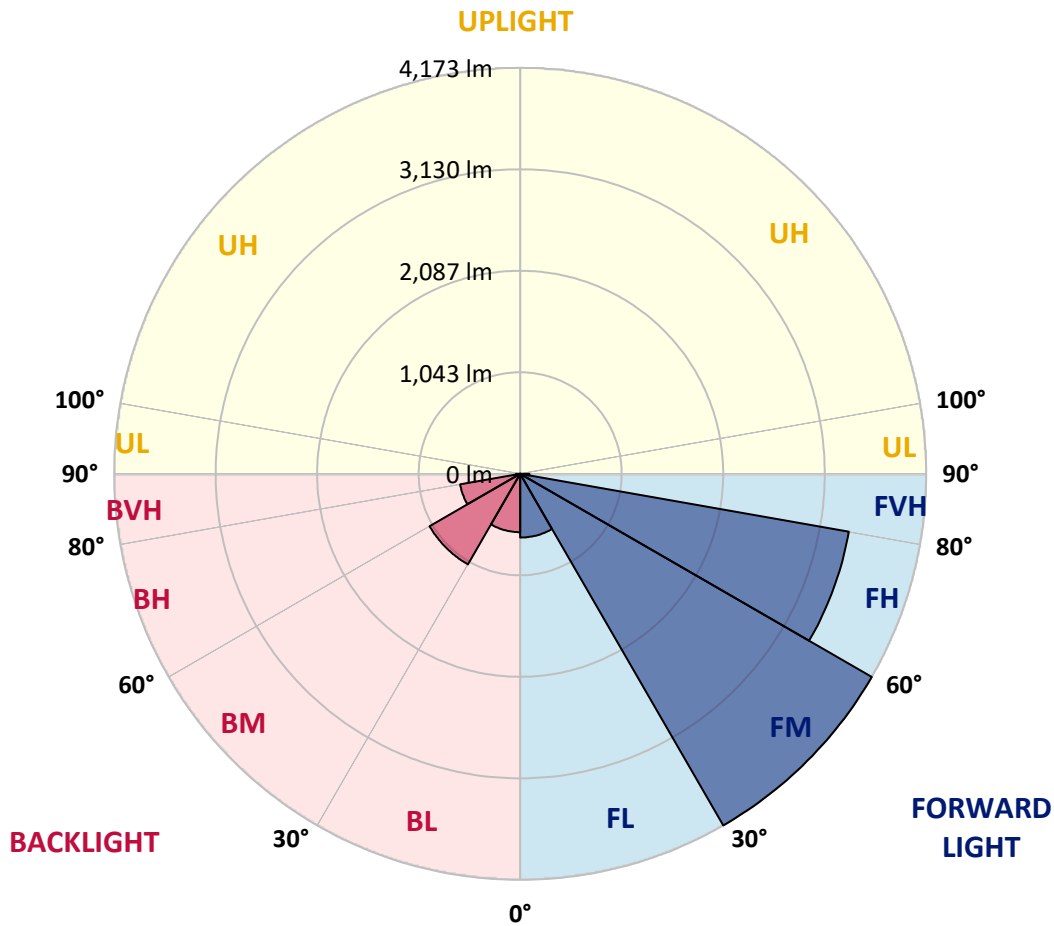
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.3	6.1			
FM (30°-60°)	4173.3	39.0			
FH (60°-80°)	3430.4	32.1			G2/5000
FVH (80°-90°)	94.7	0.9			G1/100
BL (0°-30°)	600.2	5.6	B2/1000		
BM (30°-60°)	1075.4	10.1	B2/2500		
BH (60°-80°)	626.0	5.9	B2/1000		G2/1000
BVH (80°-90°)	40.7	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2
2.5°	1375.5	1375.0	1382.1	1384.3	1397.4	1406.7	1424.3	1442.9	1467.0	1469.7
5°	1296.1	1296.1	1304.3	1313.1	1330.0	1348.7	1375.5	1407.8	1449.5	1456.0
7.5°	1228.7	1233.1	1240.2	1257.2	1276.9	1303.7	1344.8	1390.8	1445.6	1456.0
10°	1174.5	1179.4	1188.2	1201.9	1231.4	1268.7	1322.4	1381.5	1454.9	1471.4
12.5°	1157.5	1162.4	1167.3	1177.8	1205.1	1249.0	1313.1	1385.9	1477.4	1493.8
15°	1196.9	1203.0	1199.1	1196.4	1210.6	1250.6	1317.4	1401.8	1505.3	1528.9
17.5°	1287.9	1290.1	1281.3	1255.5	1253.4	1274.7	1338.3	1423.7	1540.4	1566.1
20°	1434.7	1430.8	1412.8	1361.8	1332.8	1328.4	1373.9	1456.6	1576.5	1603.9
22.5°	1634.1	1629.7	1593.5	1513.0	1448.4	1405.6	1425.4	1499.3	1617.1	1647.8
25°	1882.8	1876.7	1823.6	1714.0	1613.8	1508.1	1495.5	1555.7	1666.9	1695.4
27.5°	2173.1	2168.2	2110.6	1966.0	1821.4	1648.3	1582.6	1622.0	1719.0	1751.3
30°	2485.3	2499.6	2397.7	2242.1	2059.2	1831.3	1699.8	1703.6	1786.4	1815.4
32.5°	2852.4	2877.0	2754.3	2557.1	2307.3	2030.1	1847.7	1817.6	1884.4	1908.5
35°	3216.1	3244.0	3142.1	2924.1	2636.5	2264.6	2002.2	1948.5	2014.8	2041.1
37.5°	3530.5	3567.8	3515.2	3325.7	2988.8	2547.2	2203.8	2102.4	2175.3	2208.2
40°	3778.7	3835.7	3831.8	3713.5	3404.0	2890.2	2459.6	2292.5	2374.7	2410.3
42.5°	3980.3	4029.6	4072.3	4066.3	3837.3	3279.6	2760.3	2539.6	2602.0	2643.1
45°	4119.4	4172.0	4264.0	4363.2	4254.2	3696.5	3104.9	2832.6	2889.6	2951.5
47.5°	4243.8	4303.5	4422.9	4580.1	4608.0	4115.0	3482.3	3173.9	3226.0	3290.0
50°	4254.7	4306.2	4491.4	4714.3	4859.5	4517.1	3887.7	3556.8	3605.6	3674.1
52.5°	3990.1	4071.2	4394.4	4710.5	4975.1	4853.5	4290.3	3955.1	4009.8	4092.0
55°	3097.2	3216.1	4110.1	4563.7	4934.0	5070.9	4673.2	4378.5	4448.6	4534.6
57.5°	2667.8	2719.8	3262.7	4296.3	4746.6	5127.3	4996.4	4806.3	4919.2	5013.4
60°	2397.7	2441.0	2762.0	3880.6	4500.1	5038.1	5246.2	5205.1	5400.1	5512.4
62.5°	2108.5	2149.5	2441.5	3240.2	4184.6	4889.6	5404.0	5573.3	5893.2	6015.9
65°	1821.4	1856.5	2136.4	2722.5	3783.6	4741.2	5485.6	5891.5	6349.5	6476.6
67.5°	1501.5	1530.5	1795.1	2296.9	3296.1	4537.9	5526.1	6141.9	6746.6	6855.6
70°	1083.5	1106.0	1379.3	1816.5	2684.2	4188.4	5509.7	6319.3	6952.6	7039.7
72.5°	512.2	532.5	853.5	1179.4	1895.9	3508.1	5177.2	6178.6	6743.3	6700.1
75°	273.3	290.9	490.3	646.9	1001.4	2404.8	4236.6	5322.4	5662.5	5452.2
77.5°	185.2	198.8	303.5	388.4	457.4	1141.6	2723.1	3685.0	3545.3	3198.0
80°	146.8	161.1	248.7	262.9	221.3	412.5	1125.2	1705.8	1225.4	980.0
82.5°	112.8	128.7	209.3	190.6	120.5	169.3	327.6	539.6	313.9	238.8
85°	69.0	86.0	164.3	121.6	67.9	77.2	111.2	150.1	95.9	80.0
87.5°	35.1	49.3	83.3	44.4	30.7	18.1	29.6	29.6	25.2	21.9
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°
1492.2	0°	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2
1484.5	2.5°	1497.7	1508.6	1527.2	1544.8	1558.5	1571.6	1584.8	1591.9	1594.1	1602.8
1492.7	5°	1515.2	1535.5	1571.6	1605.6	1626.9	1640.1	1649.4	1654.9	1656.0	1658.7
1515.2	7.5°	1547.5	1579.8	1630.2	1664.2	1680.1	1679.0	1675.2	1661.5	1656.0	1651.0
1548.1	10°	1593.0	1635.7	1697.6	1721.2	1711.3	1685.0	1651.0	1611.1	1592.4	1574.4
1593.0	12.5°	1649.4	1703.6	1764.4	1763.3	1714.6	1647.2	1568.3	1507.0	1468.1	1440.1
1648.3	15°	1717.9	1780.3	1826.9	1789.6	1682.8	1561.8	1446.2	1366.2	1331.1	1300.5
1704.2	17.5°	1788.5	1855.4	1876.7	1781.4	1602.8	1435.2	1304.3	1241.3	1206.8	1190.4
1764.4	20°	1857.6	1923.9	1906.3	1734.3	1481.2	1291.7	1175.0	1140.5	1133.4	1137.2
1823.1	22.5°	1930.4	1989.6	1912.3	1643.4	1326.2	1144.9	1080.8	1081.9	1097.8	1109.3
1884.4	25°	2004.9	2044.9	1896.5	1511.9	1159.7	1037.0	1021.1	1038.6	1069.8	1092.3
1953.4	27.5°	2076.7	2094.2	1862.0	1349.2	1016.7	959.7	962.5	998.6	1045.7	1077.0
2037.2	30°	2157.8	2138.0	1795.7	1166.3	917.6	893.5	916.5	958.6	1005.7	1033.7
2143.0	32.5°	2249.2	2175.8	1690.5	997.0	847.4	840.3	878.1	905.5	926.3	934.5
2283.2	35°	2363.2	2229.0	1555.7	878.1	784.4	801.4	837.6	823.9	815.7	811.3
2471.6	37.5°	2511.1	2300.7	1398.0	800.9	733.5	773.5	788.3	745.5	713.2	697.3
2700.1	40°	2689.1	2405.9	1246.2	741.2	701.2	749.4	723.6	672.1	631.1	608.6
2957.0	42.5°	2886.9	2516.0	1118.6	696.2	683.1	729.7	676.0	614.6	548.3	541.2
3263.2	45°	3094.5	2629.4	1031.5	661.7	674.3	712.7	648.6	549.4	502.3	531.4
3570.5	47.5°	3302.1	2733.5	978.9	636.0	670.0	693.5	624.5	513.3	479.9	522.0
3899.7	50°	3533.3	2826.6	955.4	617.4	665.0	685.8	588.3	504.0	456.3	484.2
4240.5	52.5°	3762.8	2898.9	937.8	598.7	657.9	679.8	570.8	493.0	427.8	429.5
4583.4	55°	3991.8	2946.0	918.6	574.1	642.0	666.7	569.2	481.0	406.5	398.8
4946.0	57.5°	4236.1	2972.9	895.1	546.7	614.6	633.2	567.5	471.7	399.9	387.3
5316.9	60°	4484.8	3012.3	864.4	513.3	577.9	593.3	563.7	468.4	396.1	374.7
5666.4	62.5°	4707.7	3026.0	827.7	481.5	530.8	553.8	555.5	465.6	385.6	348.9
5956.7	65°	4854.0	2966.8	763.6	445.4	479.9	513.3	539.6	456.3	367.0	330.3
6100.2	67.5°	4848.0	2798.1	663.4	398.8	430.6	468.4	516.6	440.4	344.6	307.3
5991.8	70°	4622.3	2465.1	536.3	344.6	376.3	420.2	487.0	416.9	317.7	282.1
5327.8	72.5°	3964.4	1929.3	389.5	281.0	313.3	370.3	448.6	388.4	290.3	259.7
3937.5	75°	2832.1	1221.0	264.0	215.8	243.8	313.9	401.0	355.0	265.1	260.7
1972.1	77.5°	1446.7	583.4	174.7	157.8	169.8	247.6	336.9	317.2	269.0	215.3
560.9	80°	470.6	215.3	110.1	107.4	112.8	164.9	260.7	260.2	203.8	146.3
135.9	82.5°	150.1	92.6	71.8	69.0	66.3	103.5	181.9	206.0	137.5	92.6
48.8	85°	59.7	55.3	42.2	38.9	27.9	48.8	95.3	136.9	102.4	66.8
12.6	87.5°	21.9	21.9	11.5	8.2	6.0	16.4	25.7	41.1	58.6	34.5
0.0	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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<u>180°</u>
1492.2
1607.8
1663.1
1652.1
1568.9
1433.6
1297.2
1195.3
1135.6
1112.0
1098.3
1084.6
1040.3
938.9
815.7
701.2
610.2
548.3
546.7
541.8
505.1
441.0
404.3
388.9
376.3
348.9
330.3
309.0
285.4
258.0
246.0
191.7
129.3
92.0
68.5
34.0
0.0

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