

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: P939899

Luminaire Tested: **GALN-SB2C-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10298 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

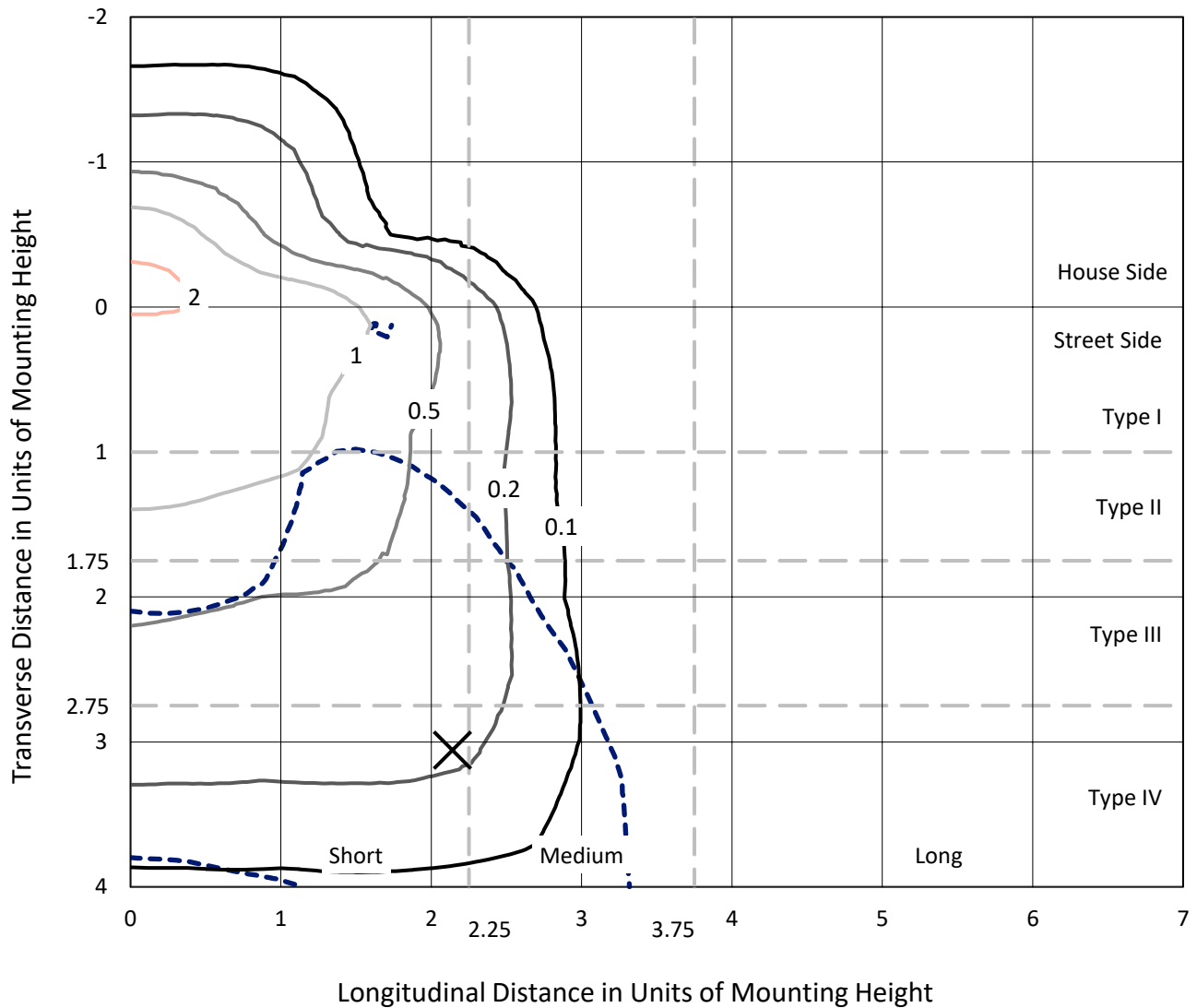
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

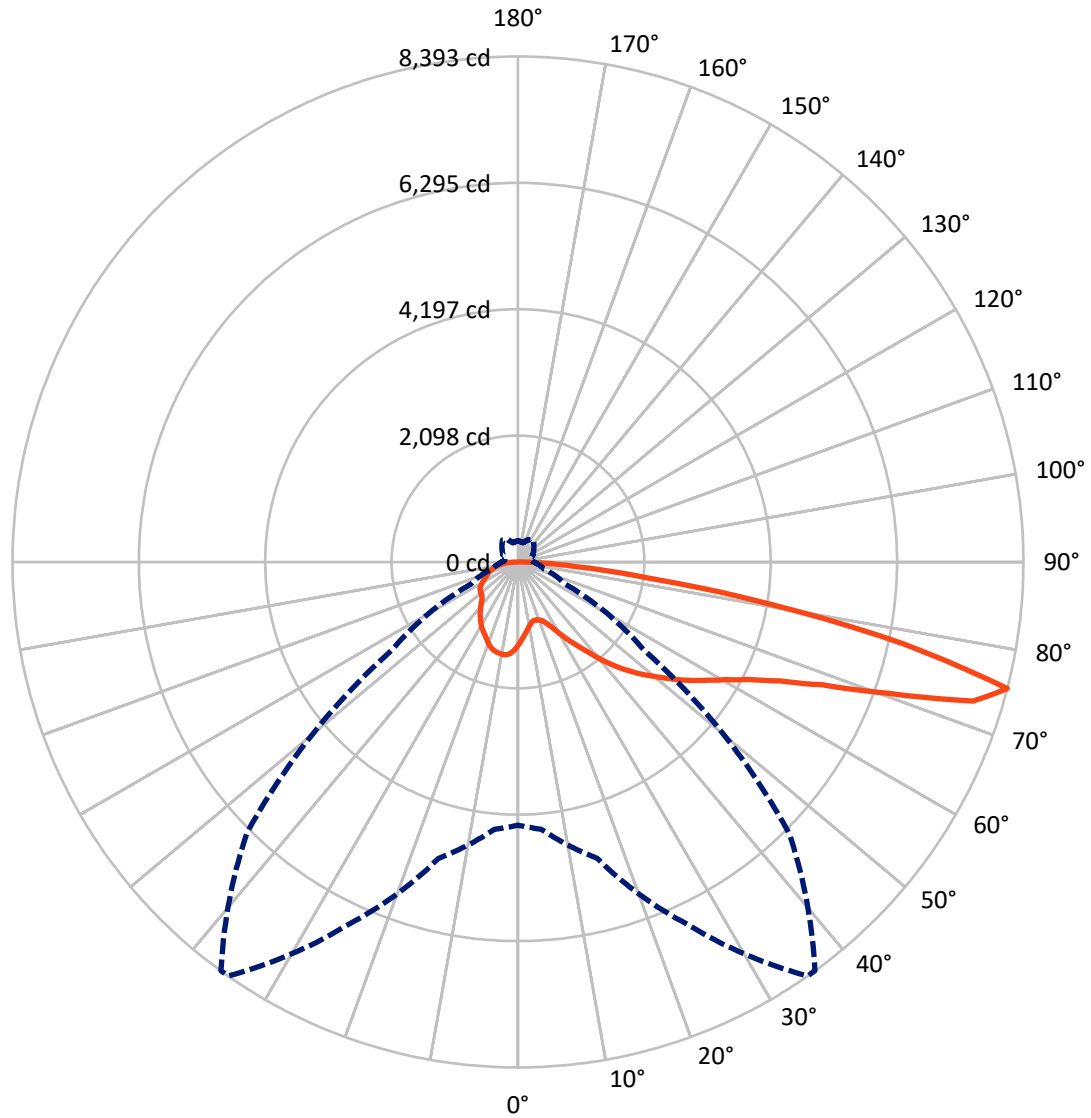
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2450.7	0.0	2450.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	7847.3	0.0	7847.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	10298.0	0.0	10298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	1.3
10°-20°	374.8	3.6
20°-30°	629.3	6.1
30°-40°	978.1	9.5
40°-50°	1451.7	14.1
50°-60°	2004.2	19.5
60°-70°	2431.5	23.6
70°-80°	2009.5	19.5
80°-90°	289.0	2.8
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°	10298.0	100.0
0°-180°	10298.0	100.0

Coefficient of Utilization



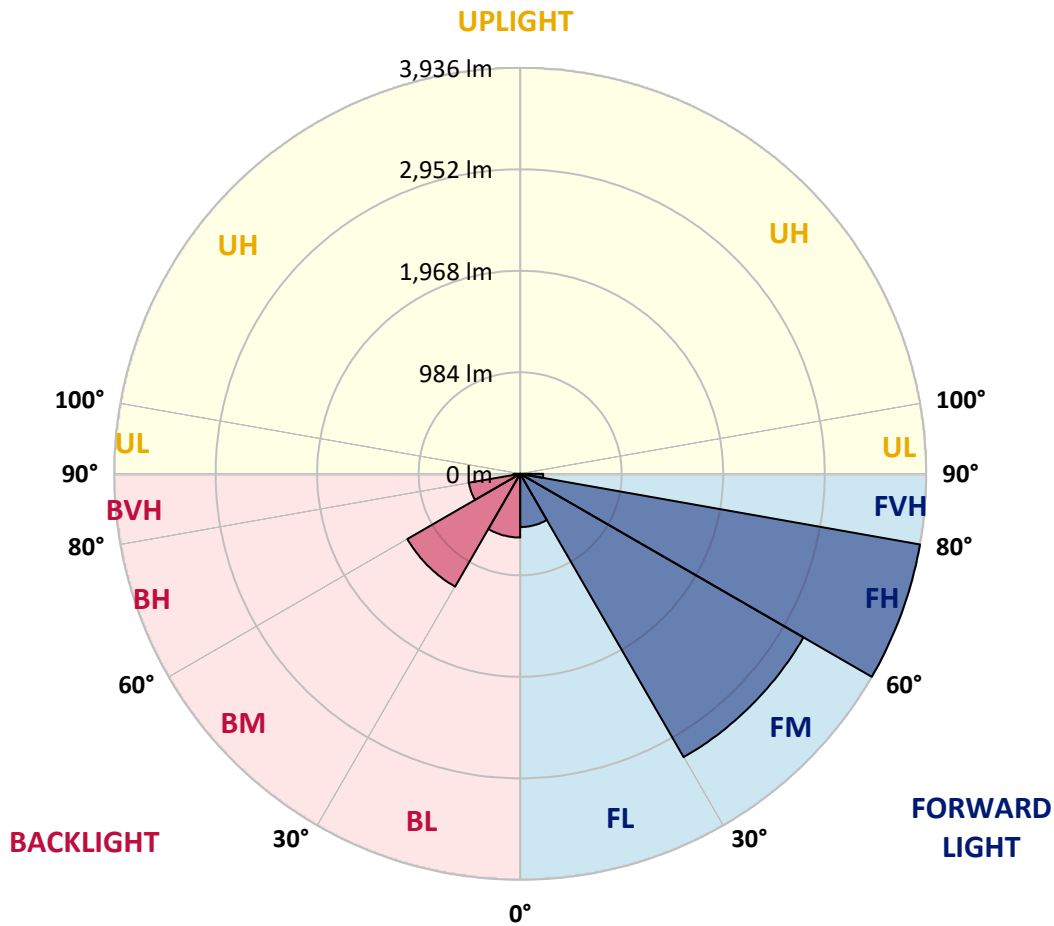
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	516.4	5.0			
FM (30°-60°)	3171.2	30.8			
FH (60°-80°)	3935.7	38.2			G2/5000
FVH (80°-90°)	223.9	2.2			G2/225
BL (0°-30°)	617.6	6.0	B2/1000		
BM (30°-60°)	1262.7	12.3	B2/2500		
BH (60°-80°)	505.3	4.9	B2/1000		G2/1000
BVH (80°-90°)	65.1	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3
2.5°	1265.4	1273.2	1276.5	1274.9	1283.2	1282.1	1293.8	1308.3	1328.3	1347.8
5°	1168.0	1176.3	1183.6	1190.2	1206.4	1211.4	1229.8	1257.6	1294.3	1331.6
7.5°	1077.2	1084.5	1095.6	1107.8	1135.1	1140.1	1170.8	1214.2	1265.4	1319.9
10°	1003.2	1010.4	1022.1	1036.0	1070.0	1076.1	1115.1	1173.0	1239.8	1308.8
12.5°	971.5	973.7	980.4	994.3	1023.8	1027.7	1070.5	1136.8	1214.7	1300.5
15°	969.8	974.2	974.8	982.0	1006.5	1008.2	1047.7	1113.4	1199.1	1298.8
17.5°	986.5	989.8	984.8	989.3	1009.9	1012.6	1043.8	1102.3	1194.1	1306.0
20°	1031.0	1033.8	1018.8	1012.6	1027.7	1029.9	1060.5	1109.5	1199.1	1321.1
22.5°	1125.7	1127.3	1090.6	1065.5	1066.6	1067.8	1094.5	1139.0	1218.6	1348.3
25°	1273.2	1272.1	1213.6	1165.2	1137.3	1131.2	1149.0	1186.9	1251.5	1384.5
27.5°	1445.8	1437.4	1379.0	1306.6	1245.9	1237.0	1233.1	1249.2	1298.2	1432.4
30°	1640.6	1632.8	1569.9	1475.3	1391.2	1376.7	1340.0	1331.6	1367.8	1497.5
32.5°	1854.4	1849.4	1774.2	1659.5	1547.1	1530.4	1468.6	1446.3	1474.7	1596.1
35°	2033.6	2029.2	1966.8	1848.8	1711.3	1690.7	1627.8	1602.8	1617.2	1722.4
37.5°	2195.6	2193.4	2140.0	2047.0	1905.0	1880.0	1809.3	1800.9	1798.2	1888.9
40°	2346.0	2340.4	2284.7	2235.7	2130.5	2107.7	2045.3	2038.1	2016.9	2093.8
42.5°	2512.4	2497.9	2417.2	2394.4	2366.0	2347.1	2309.8	2310.9	2264.1	2324.8
45°	2648.2	2639.9	2556.9	2543.6	2574.2	2566.4	2598.7	2607.1	2516.3	2567.0
47.5°	2794.1	2786.3	2716.2	2706.7	2789.6	2791.9	2906.0	2908.8	2762.4	2818.6
50°	2973.9	2962.8	2893.2	2904.9	2997.9	3006.2	3215.0	3196.0	2988.9	3074.1
52.5°	3092.5	3099.2	3084.1	3103.1	3230.0	3237.8	3518.9	3470.5	3213.3	3326.3
55°	3179.9	3193.3	3240.0	3283.4	3475.0	3482.7	3805.6	3731.6	3399.2	3560.1
57.5°	3292.4	3273.4	3360.8	3445.4	3707.7	3728.3	4084.5	3983.2	3564.0	3761.7
60°	3453.8	3440.4	3508.4	3633.6	3968.2	4001.0	4379.6	4209.8	3684.8	3921.4
62.5°	3781.1	3747.7	3758.3	3869.1	4296.7	4340.1	4712.5	4407.4	3745.0	3983.8
65°	4270.5	4213.1	4159.7	4236.5	4759.3	4802.1	5088.3	4562.8	3722.7	3863.0
67.5°	4886.8	4830.0	4764.3	4836.7	5440.7	5474.6	5552.0	4650.2	3547.3	3397.6
70°	5395.0	5373.9	5452.4	5750.2	6529.0	6530.2	6146.6	4577.8	3066.9	2408.9
72.5°	5327.7	5314.9	5728.5	6649.3	7900.8	7871.3	6709.4	4030.0	2065.9	1086.7
75°	4370.7	4453.6	5094.4	6633.1	8393.4	8389.5	6364.8	2562.0	854.5	450.4
77.5°	2343.7	2475.1	3307.4	4897.3	6552.4	6651.0	4474.8	896.3	366.9	288.4
80°	764.4	879.0	1318.3	2493.5	4257.7	4239.3	1917.8	351.8	251.1	204.3
82.5°	324.6	337.9	589.0	1177.4	2185.1	2151.1	610.7	202.1	176.5	139.7
85°	126.9	142.0	260.0	544.5	946.4	925.8	220.5	100.2	113.0	91.3
87.5°	41.8	50.7	93.0	186.5	294.5	283.9	54.0	34.5	49.0	41.8
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°
1372.3	0°	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3
1376.2	2.5°	1384.0	1392.9	1403.5	1419.0	1432.4	1443.5	1455.2	1462.5	1465.2	1473.6
1378.4	5°	1394.0	1413.5	1439.6	1465.2	1490.3	1505.3	1518.7	1525.4	1531.5	1535.9
1384.5	7.5°	1410.7	1435.7	1476.9	1510.3	1531.5	1543.7	1552.7	1550.4	1552.7	1553.8
1391.2	10°	1425.2	1460.2	1509.2	1541.0	1557.1	1557.7	1555.4	1547.6	1543.7	1544.3
1401.2	12.5°	1442.4	1481.4	1534.3	1561.0	1565.5	1553.2	1543.7	1530.4	1525.4	1523.1
1416.3	15°	1465.8	1510.3	1561.6	1571.6	1560.4	1544.9	1528.7	1507.0	1495.9	1487.0
1441.9	17.5°	1494.2	1543.2	1582.7	1575.5	1551.5	1525.9	1499.8	1466.9	1444.1	1434.6
1476.9	20°	1533.7	1577.7	1598.9	1567.1	1530.9	1492.0	1447.4	1407.4	1386.2	1376.7
1521.5	22.5°	1581.6	1623.9	1614.4	1552.7	1501.4	1439.1	1383.4	1353.9	1343.3	1336.6
1578.8	25°	1638.9	1675.1	1625.6	1531.5	1453.0	1368.9	1326.1	1316.6	1311.6	1306.6
1649.0	27.5°	1713.5	1733.0	1633.9	1500.3	1377.3	1294.3	1278.8	1280.4	1278.8	1270.4
1746.4	30°	1812.1	1808.2	1641.7	1449.7	1290.4	1227.0	1228.1	1235.3	1236.4	1230.9
1882.2	32.5°	1941.8	1902.3	1645.6	1384.0	1207.5	1168.0	1169.1	1176.9	1182.4	1173.0
2059.8	35°	2098.8	2011.9	1639.5	1301.6	1143.5	1111.7	1103.4	1105.6	1107.3	1098.4
2275.3	37.5°	2281.9	2135.0	1612.2	1210.3	1090.6	1056.6	1038.8	1023.8	1014.9	1006.5
2519.1	40°	2482.9	2269.1	1562.1	1121.2	1031.6	998.2	971.5	943.1	913.0	901.9
2777.4	42.5°	2693.3	2407.2	1501.4	1036.0	963.7	936.4	908.0	866.8	821.7	798.9
3045.7	45°	2911.6	2548.6	1441.9	952.0	894.1	882.4	849.5	800.0	751.0	722.0
3314.6	47.5°	3125.3	2682.2	1354.5	867.3	828.9	841.7	816.1	770.5	715.9	670.3
3581.3	50°	3329.7	2807.5	1211.4	781.6	776.0	829.5	805.0	739.3	677.0	618.5
3842.9	52.5°	3532.3	2908.8	1028.2	703.7	747.7	826.2	790.5	718.1	641.9	580.6
4089.0	55°	3704.3	2961.1	851.8	636.9	706.5	797.8	773.3	693.1	592.3	527.2
4257.7	57.5°	3802.3	2918.8	704.8	571.2	649.7	751.0	743.8	639.7	533.3	483.2
4290.5	60°	3760.0	2747.3	584.5	513.8	595.7	700.3	692.5	586.8	488.2	440.9
4114.6	62.5°	3526.7	2420.6	489.3	463.7	546.7	648.6	641.3	546.1	453.7	408.1
3647.5	65°	3056.9	1969.1	415.3	422.0	497.1	586.2	596.8	512.2	426.4	381.9
2821.9	67.5°	2331.5	1426.3	357.4	385.8	448.7	525.0	555.6	487.7	403.6	361.3
1632.8	70°	1328.9	810.0	308.4	350.7	405.8	468.2	523.9	468.2	379.1	344.0
611.8	72.5°	503.8	371.9	266.7	315.7	364.6	420.3	488.8	437.6	350.7	324.6
316.2	75°	268.9	226.6	224.4	274.5	317.3	373.5	444.8	407.5	329.6	342.9
218.8	77.5°	183.2	160.3	187.6	234.9	265.5	321.8	398.0	361.9	285.6	284.5
151.4	80°	126.9	113.6	152.5	189.3	205.4	270.6	347.4	310.6	232.7	217.1
93.5	82.5°	76.3	74.0	114.1	141.4	145.3	208.8	287.8	260.5	190.4	165.9
55.7	85°	41.8	44.0	72.9	82.9	84.6	145.9	225.5	201.5	146.4	123.0
20.0	87.5°	11.7	15.0	26.7	32.8	40.6	75.7	134.2	119.7	73.5	51.2
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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180°
1372.3
1473.0
1537.1
1555.4
1545.4
1522.0
1489.7
1435.2
1375.6
1337.8
1306.6
1272.1
1233.7
1177.4
1104.5
1012.1
906.9
801.7
719.8
665.3
613.5
574.0
521.6
476.5
434.2
400.8
374.7
354.6
339.6
320.1
354.1
262.2
207.7
167.0
124.1
51.2
0.0

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