

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: P939259

Luminaire Tested: **GALN-SB1D-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939259
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-SB1D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10061 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

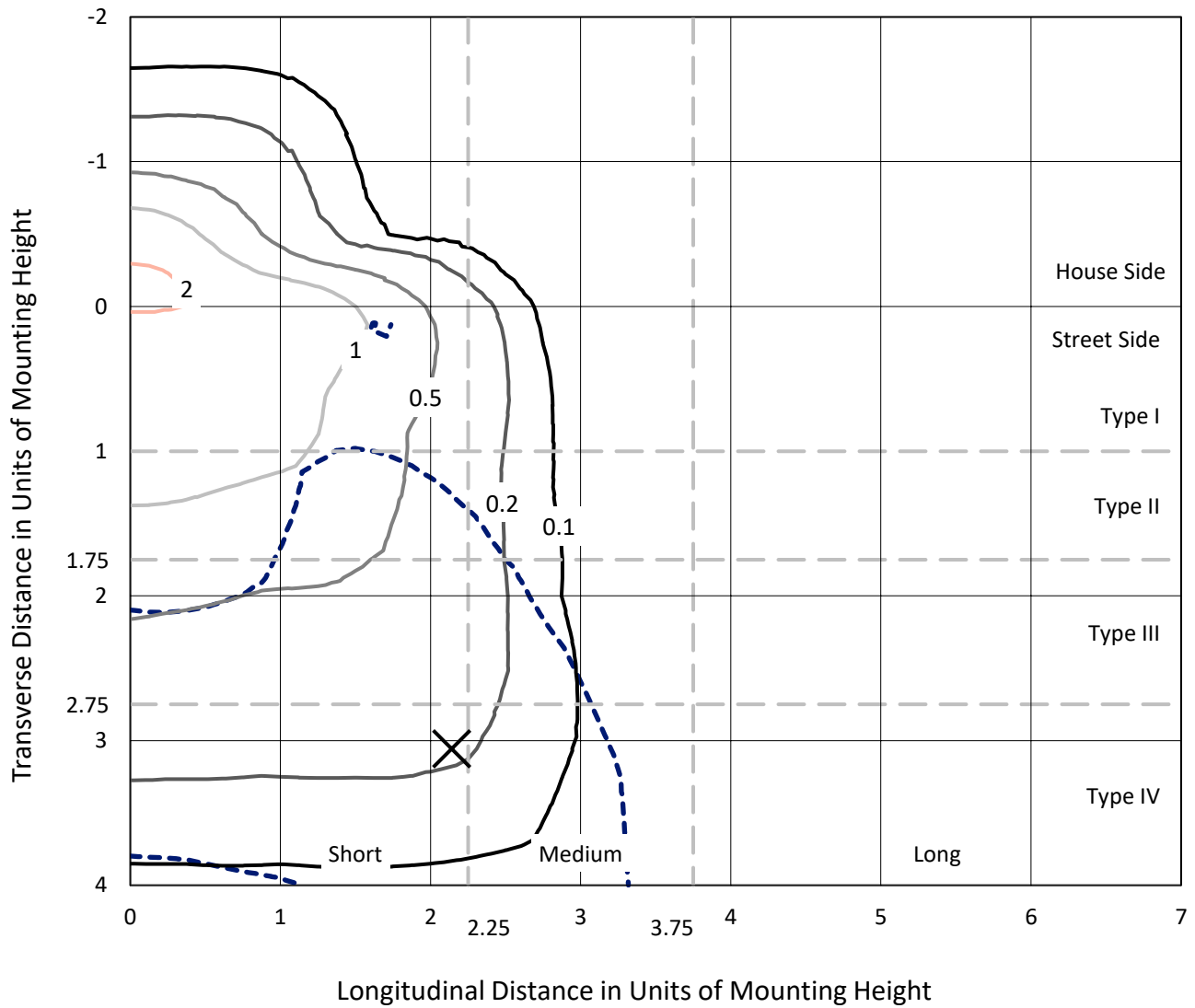
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

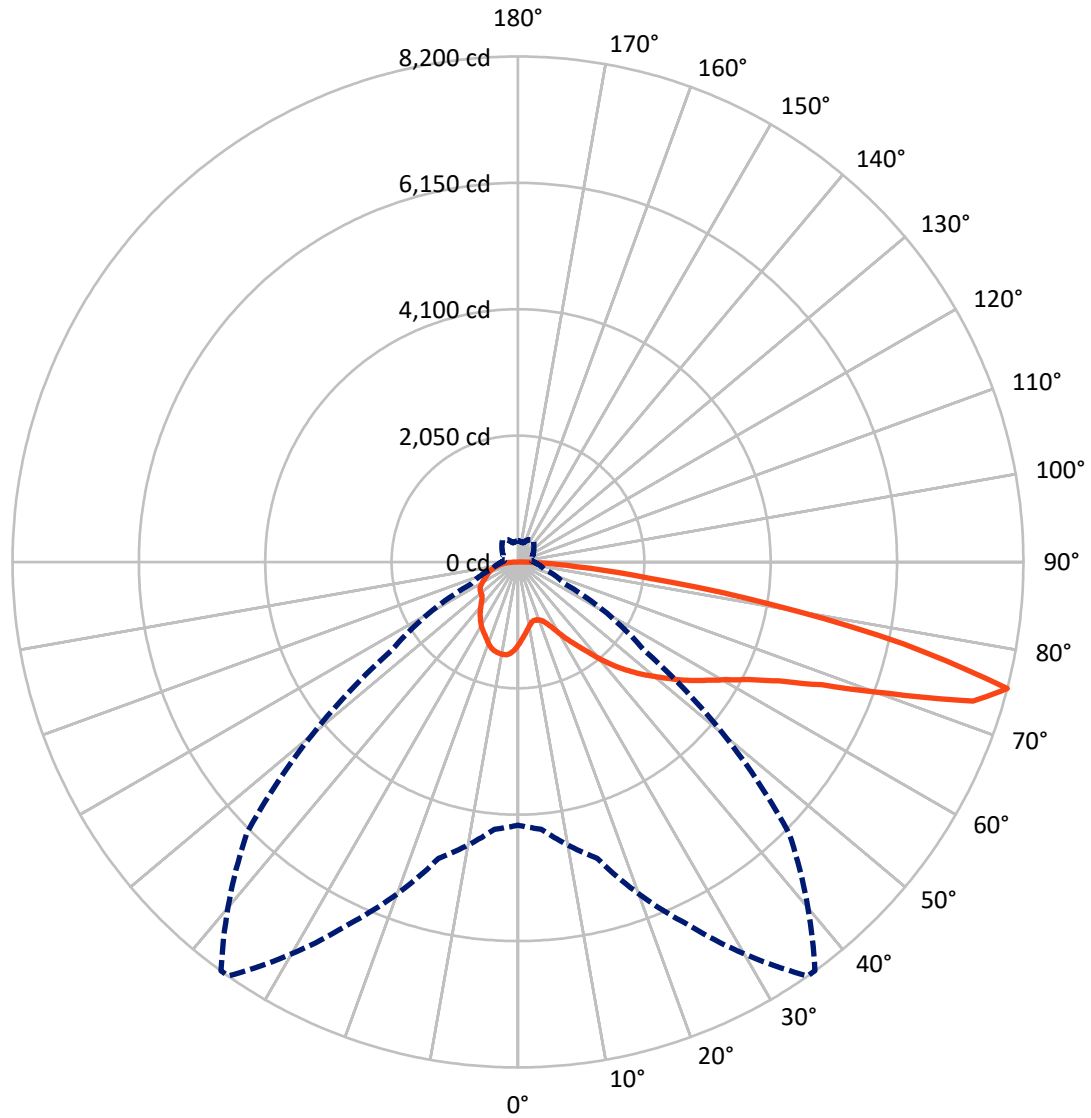
× Max cd
 - - - 1/2 Max cd



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	2394.3	0.0	2394.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	7666.7	0.0	7666.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	10061.0	0.0	10061.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	1.3
10°-20°	366.1	3.6
20°-30°	614.8	6.1
30°-40°	955.6	9.5
40°-50°	1418.3	14.1
50°-60°	1958.1	19.5
60°-70°	2375.6	23.6
70°-80°	1963.2	19.5
80°-90°	282.4	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°	10061.0	100.0
0°-180°	10061.0	100.0

Coefficient of Utilization



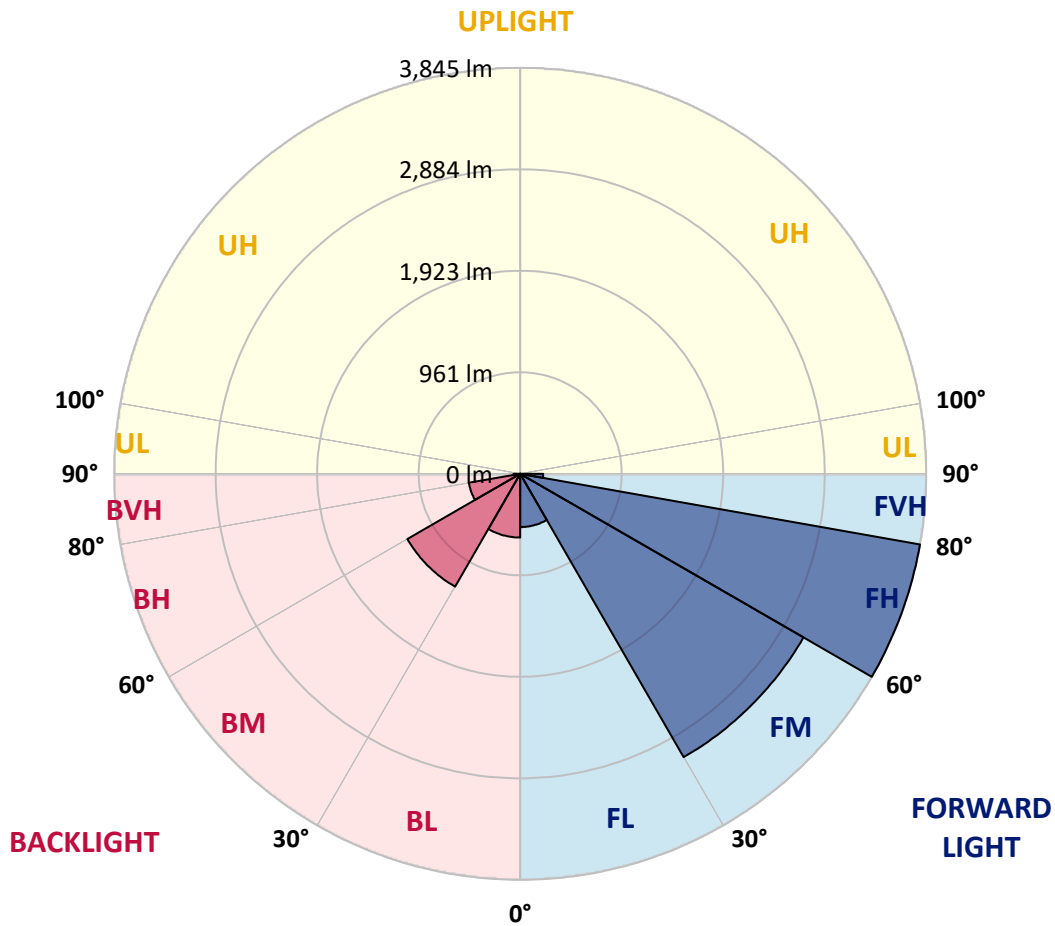
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	504.5	5.0			
FM (30°-60°)	3098.2	30.8			
FH (60°-80°)	3845.2	38.2			G2/5000
FVH (80°-90°)	218.8	2.2			G2/225
BL (0°-30°)	603.4	6.0	B2/1000		
BM (30°-60°)	1233.7	12.3	B2/2500		
BH (60°-80°)	493.6	4.9	B1/500		G1/500
BVH (80°-90°)	63.6	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°	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7
2.5°	1236.3	1243.9	1247.1	1245.5	1253.7	1252.6	1264.0	1278.1	1297.7	1316.8
5°	1141.1	1149.2	1156.3	1162.8	1178.6	1183.5	1201.5	1228.7	1264.6	1301.0
7.5°	1052.4	1059.5	1070.4	1082.3	1109.0	1113.9	1143.8	1186.2	1236.3	1289.6
10°	980.1	987.2	998.6	1012.2	1045.4	1051.3	1089.4	1146.0	1211.2	1278.7
12.5°	949.1	951.3	957.8	971.4	1000.2	1004.0	1045.9	1110.6	1186.8	1270.5
15°	947.5	951.8	952.4	959.4	983.4	985.0	1023.6	1087.8	1171.5	1268.9
17.5°	963.8	967.0	962.1	966.5	986.6	989.3	1019.8	1076.9	1166.7	1276.0
20°	1007.3	1010.0	995.3	989.3	1004.0	1006.2	1036.1	1084.0	1171.5	1290.7
22.5°	1099.8	1101.4	1065.5	1041.0	1042.1	1043.2	1069.3	1112.8	1190.6	1317.3
25°	1243.9	1242.8	1185.7	1138.4	1111.2	1105.2	1122.6	1159.6	1222.7	1352.7
27.5°	1412.5	1404.3	1347.2	1276.5	1217.2	1208.5	1204.7	1220.5	1268.4	1399.4
30°	1602.9	1595.2	1533.8	1441.3	1359.2	1345.0	1309.2	1301.0	1336.3	1463.1
32.5°	1811.7	1806.8	1733.4	1621.3	1511.5	1495.2	1434.8	1413.0	1440.8	1559.3
35°	1986.8	1982.5	1921.6	1806.3	1671.9	1651.8	1590.3	1565.9	1580.0	1682.8
37.5°	2145.1	2142.9	2090.7	1999.9	1861.2	1836.7	1767.7	1759.5	1756.8	1845.4
40°	2292.0	2286.5	2232.1	2184.3	2081.5	2059.2	1998.3	1991.2	1970.5	2045.6
42.5°	2454.6	2440.4	2361.6	2339.3	2311.5	2293.1	2256.6	2257.7	2212.0	2271.3
45°	2587.3	2579.1	2498.1	2485.0	2515.0	2507.3	2538.9	2547.1	2458.4	2507.9
47.5°	2729.8	2722.2	2653.7	2644.4	2725.4	2727.6	2839.1	2841.8	2698.8	2753.7
50°	2905.5	2894.6	2826.6	2838.0	2928.9	2937.0	3141.0	3122.5	2920.2	3003.4
52.5°	3021.3	3027.9	3013.2	3031.7	3155.7	3163.3	3437.9	3390.6	3139.4	3249.8
55°	3106.7	3119.8	3165.5	3207.9	3395.0	3402.6	3718.1	3645.7	3321.0	3478.2
57.5°	3216.6	3198.1	3283.5	3366.2	3622.3	3642.5	3990.5	3891.6	3482.0	3675.1
60°	3374.3	3361.3	3427.6	3550.0	3876.9	3909.0	4278.8	4112.9	3600.0	3831.2
62.5°	3694.1	3661.5	3671.8	3780.1	4197.8	4240.2	4604.1	4306.0	3658.8	3892.1
65°	4172.2	4116.2	4064.0	4139.0	4649.7	4691.6	4971.2	4457.7	3637.0	3774.1
67.5°	4774.3	4718.8	4654.6	4725.3	5315.5	5348.6	5424.2	4543.1	3465.7	3319.4
70°	5270.9	5250.2	5326.9	5617.9	6378.8	6379.9	6005.1	4472.4	2996.3	2353.4
72.5°	5205.1	5192.5	5596.7	6496.3	7718.9	7690.1	6555.0	3937.2	2018.4	1061.7
75°	4270.1	4351.1	4977.2	6480.5	8200.3	8196.5	6218.3	2503.0	834.9	440.0
77.5°	2289.8	2418.1	3231.3	4784.6	6401.6	6497.9	4371.8	875.7	358.4	281.7
80°	746.8	858.8	1287.9	2436.1	4159.7	4141.7	1873.7	343.7	245.3	199.6
82.5°	317.1	330.1	575.4	1150.3	2134.8	2101.6	596.7	197.4	172.4	136.5
85°	124.0	138.7	254.0	531.9	924.6	904.5	215.4	97.9	110.4	89.2
87.5°	40.8	49.5	90.8	182.2	287.7	277.4	52.8	33.7	47.9	40.8
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°
1340.7	0°	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7
1344.5	2.5°	1352.1	1360.8	1371.2	1386.4	1399.4	1410.3	1421.7	1428.8	1431.5	1439.7
1346.7	5°	1361.9	1380.9	1406.5	1431.5	1456.0	1470.7	1483.7	1490.3	1496.2	1500.6
1352.7	7.5°	1378.2	1402.7	1442.9	1475.6	1496.2	1508.2	1516.9	1514.7	1516.9	1518.0
1359.2	10°	1392.4	1426.6	1474.5	1505.5	1521.3	1521.8	1519.6	1512.0	1508.2	1508.8
1369.0	12.5°	1409.2	1447.3	1499.0	1525.1	1529.4	1517.5	1508.2	1495.2	1490.3	1488.1
1383.7	15°	1432.1	1475.6	1525.6	1535.4	1524.5	1509.3	1493.5	1472.3	1461.4	1452.7
1408.7	17.5°	1459.8	1507.7	1546.3	1539.2	1515.8	1490.8	1465.2	1433.2	1410.9	1401.6
1442.9	20°	1498.4	1541.4	1562.1	1531.1	1495.7	1457.6	1414.1	1375.0	1354.3	1345.0
1486.5	22.5°	1545.2	1586.5	1577.3	1516.9	1466.9	1406.0	1351.6	1322.7	1312.4	1305.9
1542.5	25°	1601.2	1636.6	1588.2	1496.2	1419.6	1337.4	1295.6	1286.3	1281.4	1276.5
1611.0	27.5°	1674.1	1693.1	1596.3	1465.8	1345.6	1264.6	1249.3	1251.0	1249.3	1241.2
1706.2	30°	1770.4	1766.6	1603.9	1416.3	1260.7	1198.7	1199.8	1206.9	1208.0	1202.5
1838.9	32.5°	1897.1	1858.5	1607.7	1352.1	1179.7	1141.1	1142.2	1149.8	1155.2	1146.0
2012.4	35°	2050.5	1965.6	1601.8	1271.6	1117.2	1086.2	1078.0	1080.2	1081.8	1073.1
2222.9	37.5°	2229.4	2085.8	1575.1	1182.4	1065.5	1032.3	1014.9	1000.2	991.5	983.4
2461.1	40°	2425.8	2216.9	1526.2	1095.4	1007.8	975.2	949.1	921.4	892.0	881.1
2713.5	42.5°	2631.4	2351.8	1466.9	1012.2	941.5	914.8	887.1	846.8	802.8	780.5
2975.6	45°	2844.6	2489.9	1408.7	930.1	873.5	862.1	830.0	781.6	733.7	705.4
3238.3	47.5°	3053.4	2620.5	1323.3	847.4	809.9	822.4	797.3	752.7	699.4	654.8
3498.9	50°	3253.0	2742.9	1183.5	763.6	758.2	810.4	786.5	722.3	661.4	604.3
3754.5	52.5°	3451.0	2841.8	1004.6	687.5	730.4	807.1	772.3	701.6	627.1	567.3
3994.9	55°	3619.1	2893.0	832.2	622.2	690.2	779.4	755.5	677.1	578.7	515.1
4159.7	57.5°	3714.8	2851.6	688.6	558.0	634.7	733.7	726.6	624.9	521.0	472.1
4191.8	60°	3673.5	2684.1	571.1	502.0	582.0	684.2	676.6	573.3	477.0	430.8
4019.9	62.5°	3445.6	2364.8	478.1	453.1	534.1	633.6	626.6	533.6	443.3	398.7
3563.6	65°	2986.5	1923.7	405.7	412.3	485.7	572.7	583.1	500.4	416.6	373.1
2757.0	67.5°	2277.8	1393.5	349.2	376.9	438.4	512.9	542.8	476.5	394.3	353.0
1595.2	70°	1298.3	791.4	301.3	342.7	396.5	457.4	511.8	457.4	370.4	336.1
597.7	72.5°	492.2	363.3	260.5	308.4	356.2	410.6	477.5	427.5	342.7	317.1
308.9	75°	262.7	221.4	219.2	268.1	310.0	365.0	434.6	398.1	322.0	335.0
213.7	77.5°	178.9	156.6	183.3	229.5	259.4	314.4	388.9	353.5	279.0	277.9
147.9	80°	124.0	111.0	149.0	184.9	200.7	264.3	339.4	303.5	227.3	212.1
91.4	82.5°	74.5	72.3	111.5	138.1	142.0	204.0	281.2	254.5	186.0	162.1
54.4	85°	40.8	43.0	71.2	81.0	82.7	142.5	220.3	196.9	143.0	120.2
19.6	87.5°	11.4	14.7	26.1	32.1	39.7	74.0	131.1	116.9	71.8	50.0
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>
1340.7
1439.1
1501.7
1519.6
1509.8
1487.0
1455.5
1402.2
1344.0
1307.0
1276.5
1242.8
1205.3
1150.3
1079.1
988.8
886.0
783.2
703.3
650.0
599.4
560.8
509.6
465.6
424.2
391.6
366.0
346.5
331.8
312.7
345.9
256.2
202.9
163.2
121.3
50.0
0.0

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