

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: P939422

Luminaire Tested: **GALN-SB2A-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8892 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

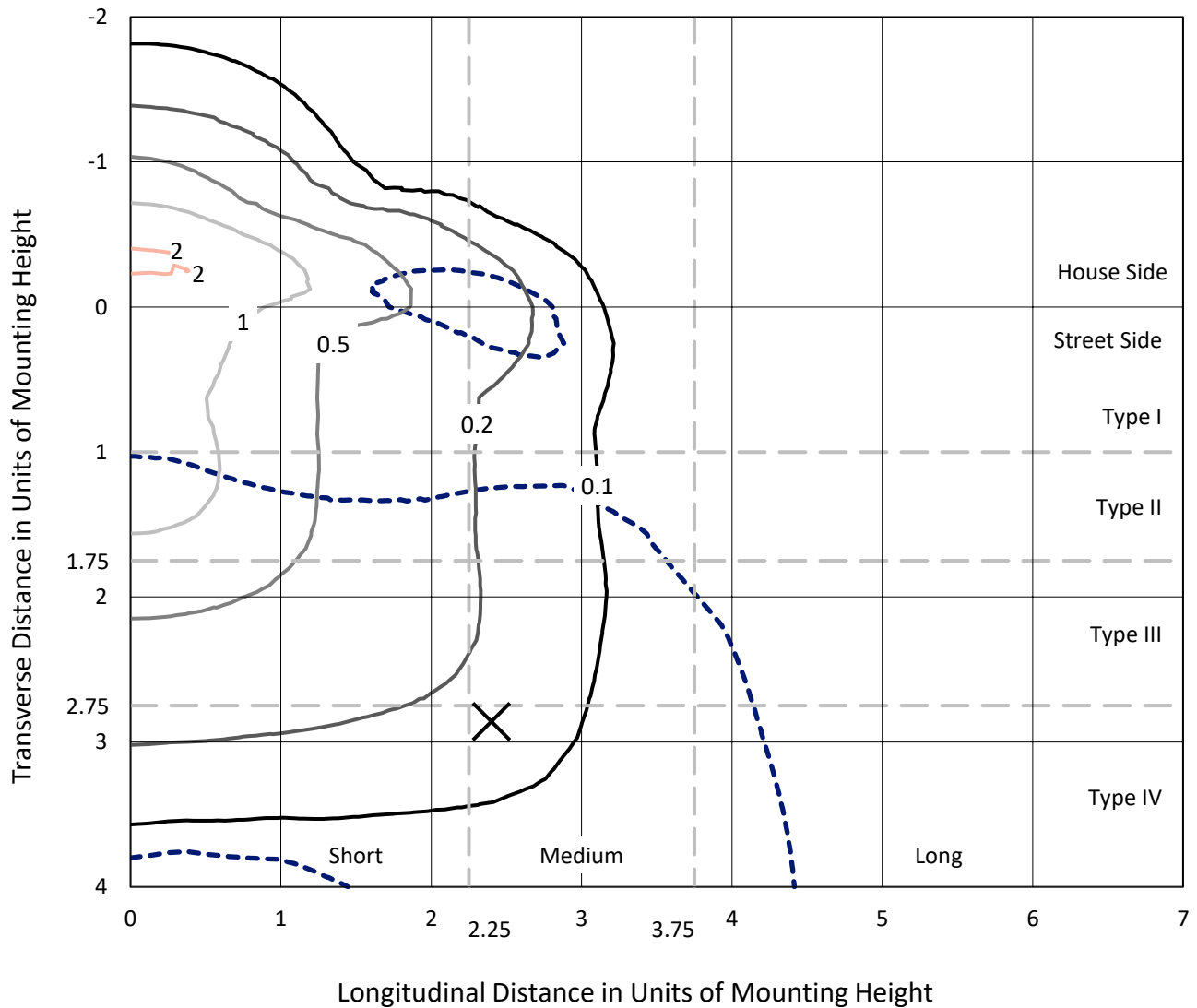
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939422
 CATALOG NUMBER: GALN-SB2A-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

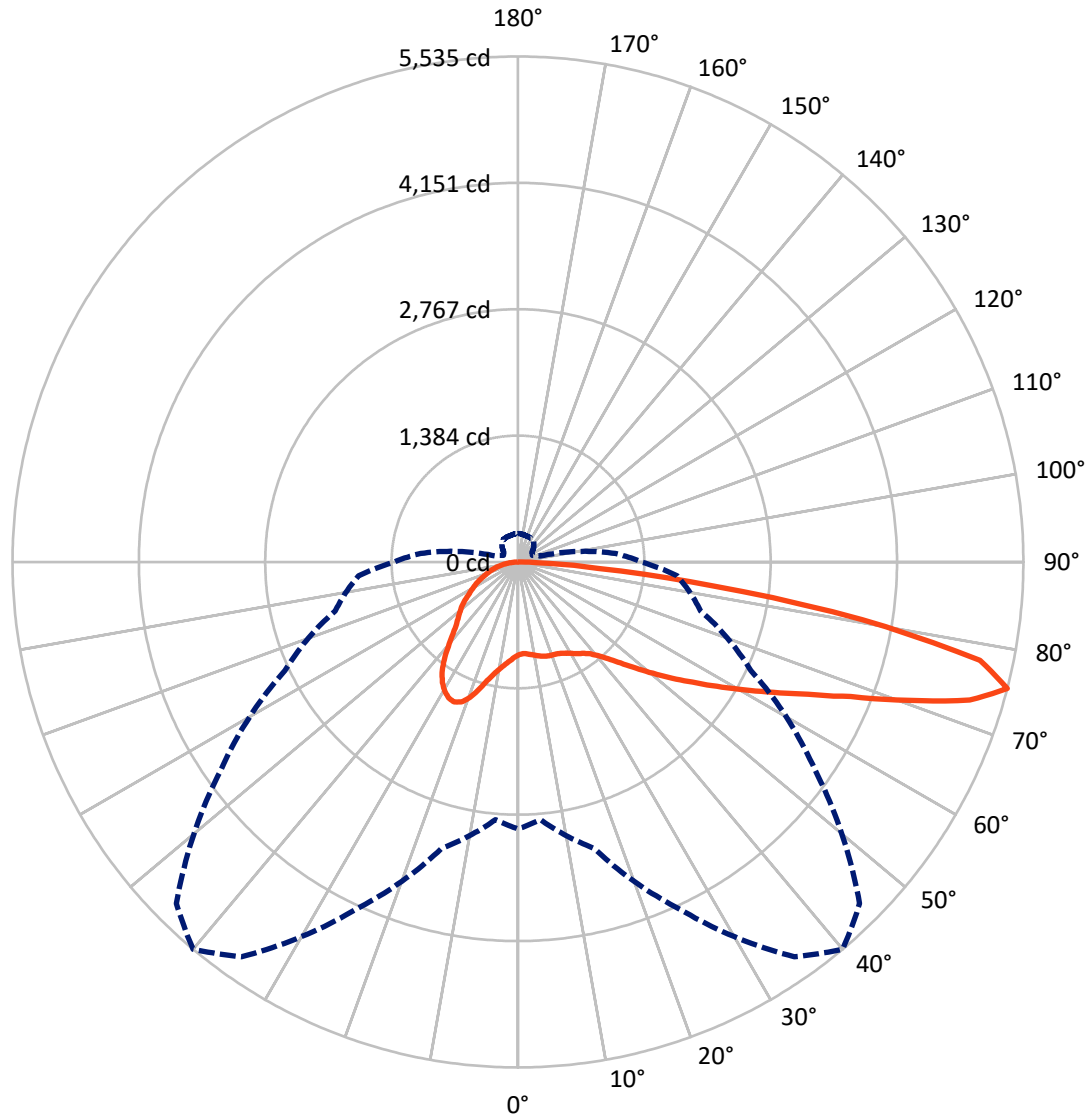
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P939422
CATALOG NUMBER: GALN-SB2A-735-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P939422

CATALOG NUMBER: GALN-SB2A-735-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2755.0	0.0	2755.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	6137.0	0.0	6137.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	8892.0	0.0	8892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	1.1
10°-20°	340.8	3.8
20°-30°	622.2	7.0
30°-40°	882.5	9.9
40°-50°	1191.6	13.4
50°-60°	1603.0	18.0
60°-70°	2034.6	22.9
70°-80°	1846.6	20.8
80°-90°	269.2	3.0
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°	8892.0	100.0
0°-180°	8892.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939422

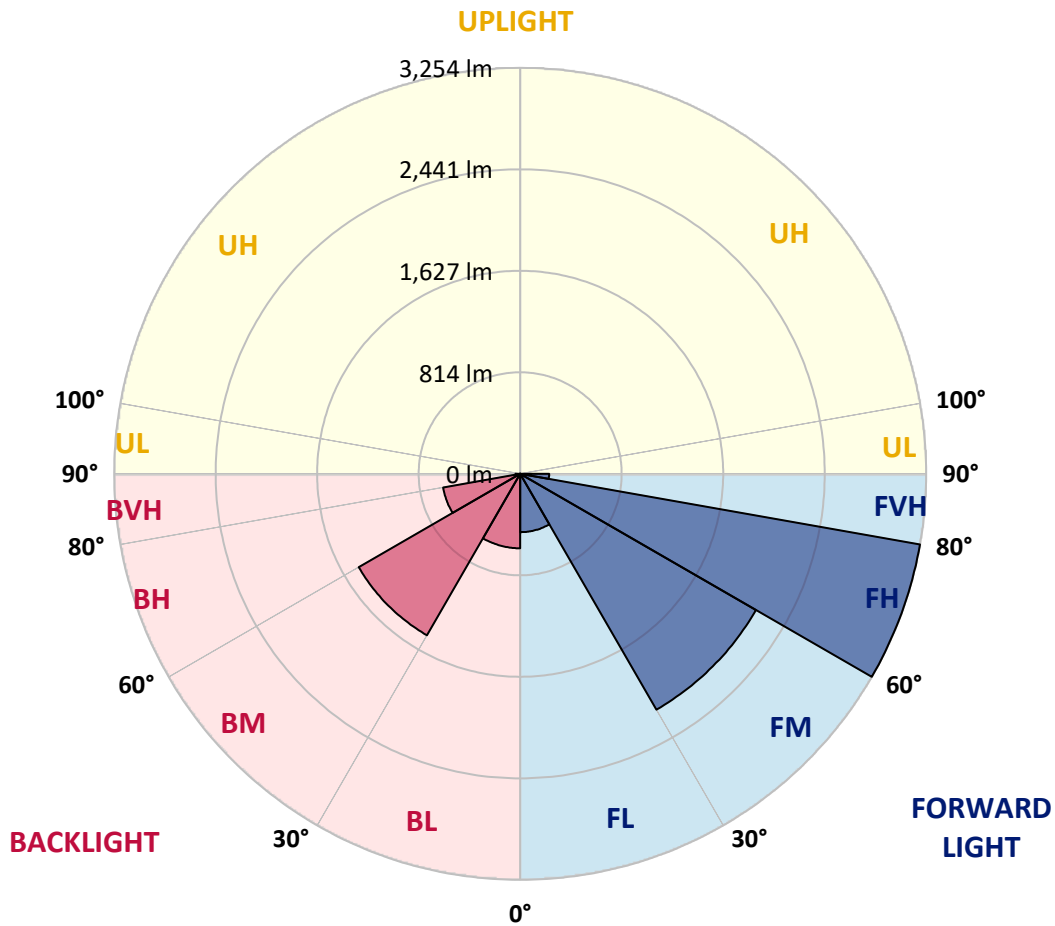
CATALOG NUMBER: GALN-SB2A-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	467.7	5.3			
FM (30°-60°)	2182.8	24.5			
FH (60°-80°)	3254.3	36.6			G2/5000
FVH (80°-90°)	232.1	2.6			G3/500
BL (0°-30°)	596.8	6.7	B2/1000		
BM (30°-60°)	1494.4	16.8	B2/2500		
BH (60°-80°)	626.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	37.1	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-G3

Type IV Medium



REPORT NUMBER: P939422

CATALOG NUMBER: GALN-SB2A-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1016.8	1016.8	1016.8	1016.8	1016.8	1016.8	1016.8	1016.8	1016.8	1016.8
2.5°	1001.2	1006.9	1005.5	1003.6	1003.6	1004.1	1003.6	1006.9	1010.2	1013.5
5°	1011.6	1017.3	1014.5	1012.1	1010.2	1009.7	1008.3	1007.9	1009.7	1014.0
7.5°	1031.9	1037.6	1033.3	1029.1	1025.3	1023.4	1021.5	1018.7	1017.3	1019.6
10°	1054.5	1060.2	1055.0	1047.5	1041.3	1039.0	1037.1	1034.3	1032.4	1033.8
12.5°	1077.2	1082.8	1075.8	1065.4	1057.4	1056.0	1053.6	1052.7	1052.2	1051.7
15°	1098.4	1103.1	1094.2	1081.9	1073.4	1071.0	1068.7	1070.1	1072.5	1075.3
17.5°	1114.9	1119.6	1106.4	1090.4	1082.4	1081.4	1080.0	1084.7	1091.3	1098.4
20°	1130.0	1134.7	1117.7	1096.0	1086.6	1086.6	1087.1	1097.0	1106.4	1116.8
22.5°	1151.2	1155.0	1134.2	1104.5	1090.9	1091.8	1095.6	1105.5	1117.3	1131.4
25°	1182.8	1185.7	1160.2	1120.6	1105.0	1107.8	1111.1	1115.9	1127.2	1143.7
27.5°	1233.8	1236.1	1202.6	1148.9	1125.3	1130.0	1134.7	1131.4	1136.6	1150.8
30°	1305.4	1306.9	1264.4	1193.2	1159.7	1162.1	1163.0	1149.3	1139.4	1150.8
32.5°	1390.3	1389.9	1339.4	1247.0	1198.9	1196.5	1188.5	1161.6	1138.5	1148.4
35°	1521.9	1516.7	1451.6	1322.4	1243.2	1228.6	1209.7	1175.3	1143.2	1146.0
37.5°	1739.8	1723.8	1633.7	1446.0	1309.2	1272.0	1244.1	1197.4	1153.6	1145.1
40°	1985.5	1965.2	1866.2	1615.3	1408.3	1348.4	1303.6	1229.0	1170.6	1149.3
42.5°	2277.0	2248.2	2141.6	1814.8	1533.7	1446.9	1379.5	1269.1	1195.6	1163.0
45°	2634.9	2596.7	2445.8	2039.8	1691.7	1576.2	1486.1	1330.0	1233.8	1189.4
47.5°	2996.7	3006.1	2791.5	2297.3	1881.3	1735.6	1619.5	1421.5	1289.4	1231.9
50°	3381.0	3387.6	3135.3	2582.6	2096.3	1915.7	1769.5	1523.8	1366.8	1292.2
52.5°	3681.0	3681.9	3447.5	2881.1	2320.4	2113.8	1931.3	1640.8	1456.4	1372.4
55°	3868.7	3866.3	3666.4	3163.6	2577.9	2321.8	2110.5	1773.8	1565.8	1466.7
57.5°	4005.0	3997.9	3817.3	3406.5	2852.4	2567.5	2313.3	1924.7	1695.0	1579.0
60°	4056.9	4052.6	3919.6	3616.4	3141.0	2839.2	2547.2	2093.5	1841.7	1711.5
62.5°	4076.7	4084.7	4020.1	3819.6	3449.9	3140.0	2804.3	2295.4	2006.7	1861.5
65°	4146.5	4161.1	4147.9	4085.6	3798.9	3492.3	3145.2	2535.4	2186.9	2022.3
67.5°	4284.7	4299.3	4304.9	4404.0	4225.2	3931.4	3570.6	2834.4	2397.7	2189.3
70°	4281.4	4277.1	4377.1	4657.2	4759.1	4539.3	4144.1	3202.3	2649.1	2327.9
72.5°	3897.0	3863.0	4099.3	4654.4	5203.4	5174.1	4844.5	3676.7	2866.0	2344.9
75°	2923.6	2833.0	3250.4	4194.6	5277.4	5534.5	5289.7	3971.0	2814.6	2071.8
77.5°	1250.3	1159.2	1651.1	3105.1	4723.3	5173.7	4881.3	3464.5	2246.8	1370.1
80°	327.3	326.8	499.0	1407.8	3212.2	3820.6	3351.8	2237.4	1283.7	489.5
82.5°	135.4	132.1	183.5	547.6	1569.6	2144.0	1749.7	997.9	463.6	132.5
85°	50.5	50.0	89.1	189.1	553.7	884.3	640.0	255.1	115.5	64.6
87.5°	14.1	13.7	19.3	65.6	134.9	204.7	109.4	42.0	32.5	25.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939422
 CATALOG NUMBER: GALN-SB2A-735-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1016.8	0°	1016.8	1016.8	1016.8	1016.8	1016.8	1016.8	1016.8	1016.8	1016.8	1016.8
1018.7	2.5°	1020.1	1022.5	1026.7	1030.0	1034.3	1039.0	1045.6	1049.8	1054.1	1056.9
1021.1	5°	1024.4	1029.5	1040.4	1051.2	1064.0	1075.8	1089.4	1099.3	1107.4	1109.7
1029.5	7.5°	1033.8	1042.3	1060.7	1079.1	1099.3	1118.7	1138.5	1155.5	1169.1	1174.3
1044.6	10°	1050.3	1061.6	1087.6	1113.5	1140.4	1170.1	1195.6	1220.1	1239.4	1247.4
1062.6	12.5°	1071.0	1085.2	1119.2	1155.0	1192.3	1233.3	1266.3	1296.5	1320.5	1331.4
1087.6	15°	1097.9	1116.3	1159.7	1207.8	1262.5	1319.6	1361.6	1395.1	1421.9	1435.1
1113.5	17.5°	1127.2	1151.7	1206.4	1279.0	1357.3	1432.3	1481.4	1505.9	1533.7	1546.4
1137.5	20°	1155.5	1185.7	1263.9	1369.6	1473.8	1553.5	1593.1	1599.7	1601.6	1603.0
1160.2	22.5°	1184.7	1225.3	1336.1	1483.7	1595.5	1650.7	1656.3	1628.0	1588.4	1570.0
1182.4	25°	1216.8	1270.5	1430.4	1609.6	1700.2	1706.8	1663.4	1594.5	1519.6	1485.1
1200.3	27.5°	1247.9	1322.9	1543.6	1729.9	1775.6	1717.6	1624.3	1526.6	1436.1	1399.8
1213.0	30°	1279.0	1382.8	1668.6	1835.1	1810.1	1690.8	1562.5	1453.5	1362.5	1324.3
1224.3	32.5°	1310.6	1452.6	1812.4	1911.0	1803.9	1633.7	1485.6	1371.5	1291.3	1251.2
1234.2	35°	1346.5	1538.4	1948.7	1952.5	1762.9	1549.7	1384.2	1273.4	1203.6	1171.5
1246.0	37.5°	1393.2	1647.4	2069.0	1962.9	1691.2	1426.6	1258.3	1157.4	1099.8	1085.2
1263.5	40°	1451.2	1778.5	2161.0	1946.4	1585.1	1277.1	1120.6	1039.9	1007.4	1010.7
1287.1	42.5°	1526.6	1925.2	2225.6	1903.9	1437.5	1122.9	999.8	964.0	979.6	992.8
1322.4	45°	1624.7	2077.5	2265.7	1831.8	1270.5	992.3	928.6	937.1	948.9	950.3
1379.5	47.5°	1750.2	2231.7	2292.1	1722.8	1100.3	900.3	883.3	885.2	882.9	873.0
1464.9	50°	1906.8	2381.7	2315.7	1578.5	955.5	842.8	820.1	813.5	781.0	748.9
1578.5	52.5°	2085.0	2519.4	2325.6	1399.3	842.8	794.7	757.9	716.4	655.6	645.6
1721.4	55°	2283.1	2646.7	2300.1	1179.0	748.0	732.9	677.2	627.3	620.7	612.2
1909.6	57.5°	2519.9	2784.0	2248.2	933.3	650.8	660.7	606.5	612.2	600.4	587.2
2151.5	60°	2778.8	2925.9	2157.2	709.3	550.4	570.7	588.1	587.6	584.3	573.5
2406.7	62.5°	3011.8	3019.3	1978.0	543.3	462.2	500.9	548.5	548.0	545.2	539.1
2673.1	65°	3150.4	3005.2	1679.0	427.8	389.6	443.3	494.7	498.5	499.0	498.5
2873.6	67.5°	3125.9	2839.6	1268.7	340.5	329.7	384.8	441.4	446.6	450.4	451.3
2899.0	70°	2848.6	2476.0	827.2	271.7	276.4	333.4	391.0	396.2	399.5	403.2
2515.6	72.5°	2220.4	1820.5	473.5	219.8	229.7	289.1	341.0	347.1	349.0	356.1
1750.7	75°	1353.1	1070.6	255.6	173.1	188.6	247.1	291.5	298.5	301.8	310.3
859.8	77.5°	643.3	463.6	145.7	134.9	151.9	201.9	246.2	254.2	245.2	250.0
237.2	80°	217.4	172.1	92.0	102.8	116.0	157.5	197.1	205.2	186.3	185.3
78.8	82.5°	75.9	69.8	58.5	68.4	75.0	112.7	149.0	159.4	138.7	138.2
35.4	85°	29.7	28.3	32.5	37.3	44.8	69.3	98.1	103.3	85.4	68.9
10.4	87.5°	6.1	6.6	8.0	8.5	13.7	24.1	35.4	43.4	34.4	29.2
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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<u>180°</u>
1016.8
1055.0
1110.7
1174.8
1247.9
1331.4
1434.2
1546.0
1606.8
1575.2
1490.3
1404.0
1328.6
1256.4
1178.6
1095.6
1022.0
1005.0
959.7
880.5
753.2
648.9
613.6
584.8
569.7
536.7
498.5
452.3
405.1
358.9
<i>311.3</i>
246.2
183.5
131.6
67.9
26.9
0.0

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