

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: P946383

Luminaire Tested: **GALN-SB2A-750-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946383  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-750-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

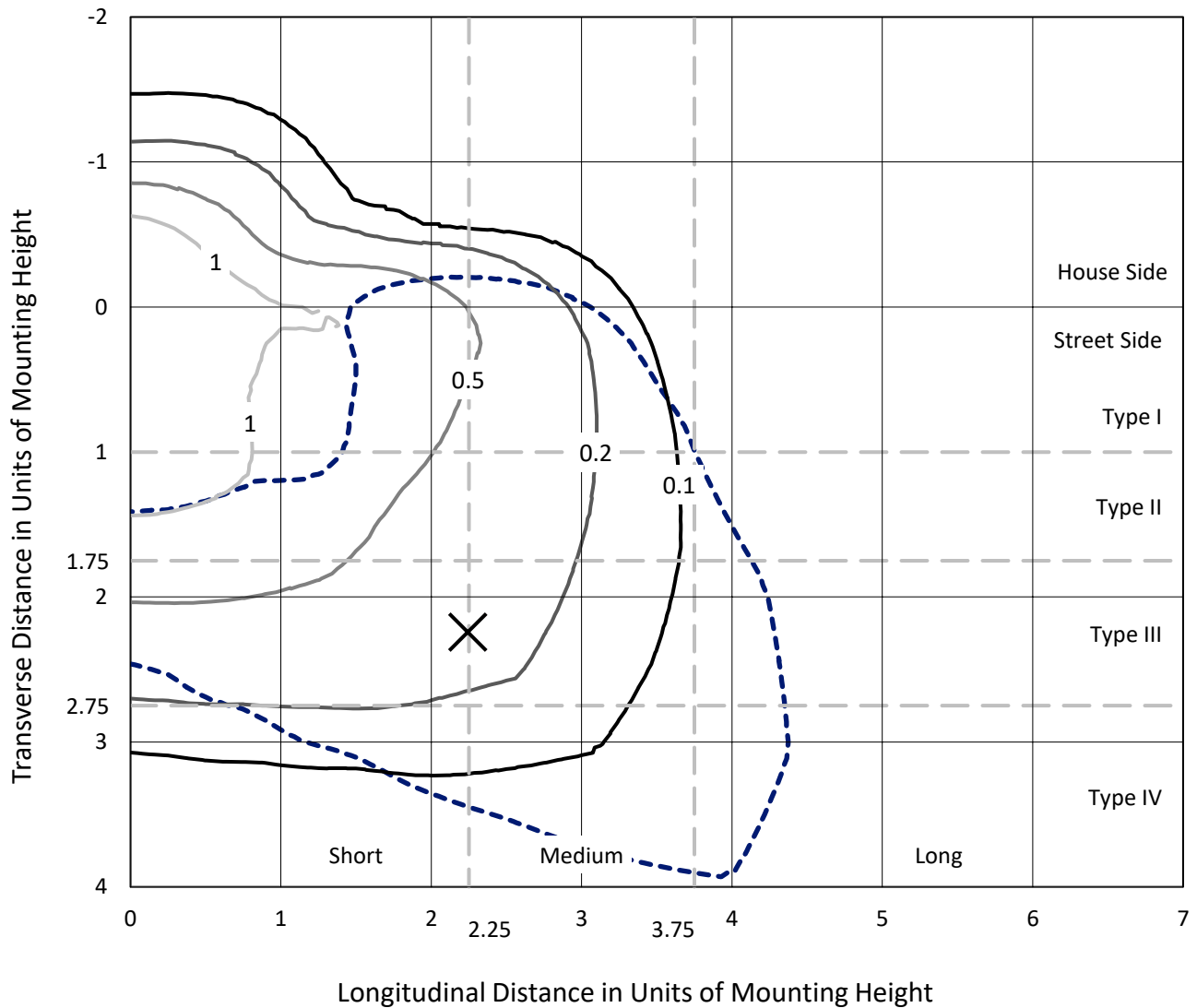
Lumens per Lamp: N/A  
Luminaire Lumens: 9472 lumens  
Efficiency: N/A  
Efficacy: 165.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

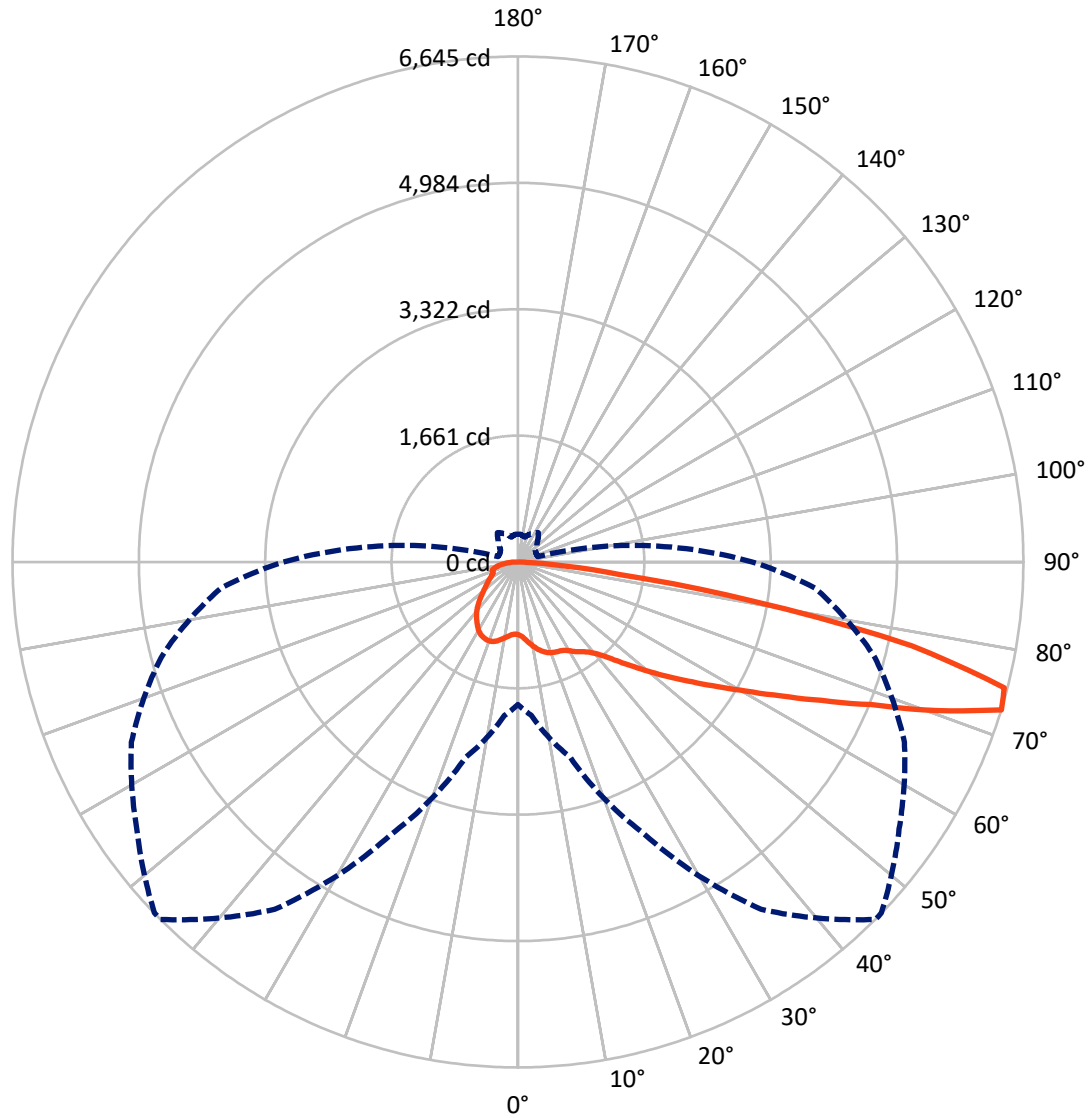
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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
<b>House Side</b>	Lumens	2141.3	0.0	2141.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	7330.7	0.0	7330.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	9472.0	0.0	9472.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.3	1.0
10°-20°	324.3	3.4
20°-30°	564.1	6.0
30°-40°	808.6	8.5
40°-50°	1138.6	12.0
50°-60°	1744.0	18.4
60°-70°	2526.4	26.7
70°-80°	2017.5	21.3
80°-90°	251.3	2.7
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°	9472.0	100.0
0°-180°	9472.0	100.0

**Coefficient of Utilization**



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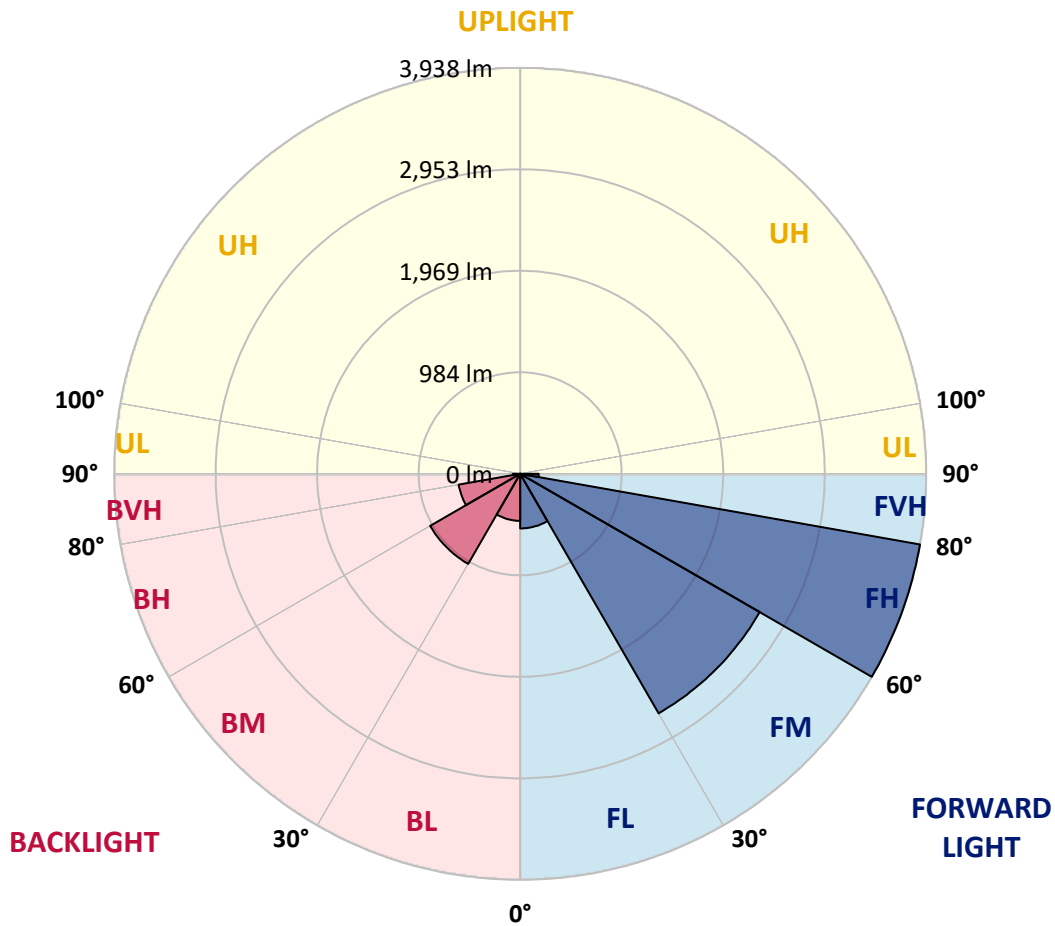
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	529.7	5.6			
FM (30°-60°)	2683.0	28.3			
FH (60°-80°)	3937.8	41.6			G2/5000
FVH (80°-90°)	180.3	1.9			G2/225
BL (0°-30°)	455.9	4.8	B1/500		
BM (30°-60°)	1008.2	10.6	B2/2500		
BH (60°-80°)	606.1	6.4	B2/1000		G2/1000
BVH (80°-90°)	71.0	0.7			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°	45°	46°	55°	65°	75°
0°	955.5	955.5	955.5	955.5	955.5	955.5	955.5	955.5	955.5	955.5
2.5°	993.0	999.5	993.5	988.0	985.5	979.0	978.5	974.5	972.0	965.0
5°	1062.3	1070.8	1060.8	1049.8	1039.9	1023.9	1021.9	1010.4	997.5	982.5
7.5°	1140.7	1148.1	1136.7	1120.2	1102.7	1076.3	1075.8	1054.8	1034.4	1008.9
10°	1209.0	1219.0	1203.5	1181.1	1159.1	1129.2	1125.7	1101.7	1075.8	1042.9
12.5°	1269.4	1276.4	1261.4	1234.0	1208.5	1178.6	1174.1	1147.6	1118.7	1081.3
15°	1317.3	1326.3	1306.3	1276.9	1249.9	1220.5	1216.5	1192.6	1163.6	1124.2
17.5°	1348.7	1356.2	1335.8	1302.8	1276.9	1252.4	1249.4	1229.5	1204.0	1164.1
20°	1360.7	1368.7	1347.2	1313.8	1289.9	1270.9	1269.4	1254.9	1237.5	1201.0
22.5°	1372.7	1380.2	1352.2	1317.3	1296.3	1284.4	1283.9	1274.4	1267.4	1237.5
25°	1421.1	1423.1	1385.7	1335.3	1305.3	1294.8	1294.3	1293.8	1296.8	1273.4
27.5°	1463.0	1462.5	1430.6	1383.2	1336.8	1314.8	1314.3	1319.3	1328.8	1309.3
30°	1524.4	1518.9	1481.0	1431.6	1389.2	1355.2	1352.2	1347.7	1355.2	1339.8
32.5°	1654.6	1637.1	1575.8	1487.9	1432.6	1406.6	1402.6	1374.7	1377.7	1368.2
35°	1841.2	1818.3	1736.4	1594.7	1486.5	1449.5	1447.5	1412.1	1406.1	1397.6
37.5°	2063.3	2034.8	1939.5	1749.4	1579.3	1499.4	1496.4	1464.5	1440.0	1431.1
40°	2286.3	2250.4	2171.5	1938.0	1716.0	1582.8	1573.3	1524.9	1496.9	1482.0
42.5°	2502.9	2472.9	2405.6	2149.6	1884.6	1704.5	1683.5	1600.7	1579.8	1565.8
45°	2694.5	2667.5	2618.1	2375.6	2082.2	1870.2	1849.7	1714.5	1708.0	1708.0
47.5°	2850.2	2844.2	2791.8	2606.2	2315.3	2058.8	2023.4	1872.7	1890.1	1917.1
50°	3022.8	3006.3	2950.4	2833.2	2589.2	2274.8	2245.9	2066.8	2132.1	2206.0
52.5°	3181.5	3190.5	3128.1	3069.7	2898.6	2515.8	2464.9	2295.8	2437.0	2559.3
55°	3344.6	3345.1	3327.7	3319.7	3222.9	2782.3	2726.4	2571.2	2795.8	2947.5
57.5°	3497.8	3498.8	3524.8	3595.1	3599.1	3089.7	3026.3	2909.5	3194.4	3349.1
60°	3634.5	3641.5	3712.4	3877.0	3929.9	3441.9	3382.1	3309.2	3606.6	3762.3
62.5°	3680.5	3705.9	3863.6	4097.6	4256.8	3874.1	3815.2	3771.8	4039.7	4184.4
65°	3602.6	3661.0	3965.9	4279.7	4593.1	4387.5	4329.1	4281.7	4489.8	4626.0
67.5°	3411.5	3486.8	3959.9	4470.8	5001.2	5005.2	4950.8	4839.6	4972.3	5024.7
70°	2908.0	3020.8	3611.1	4542.2	5469.8	5850.0	5797.6	5511.2	5453.8	5200.3
72.5°	1873.7	2025.3	2659.0	3954.9	5574.1	6644.9	6641.9	6117.5	5606.0	4859.0
75°	683.6	776.4	1235.5	2482.4	4678.9	6604.5	6623.9	6013.7	5117.5	3753.3
77.5°	249.0	272.4	403.2	954.0	2877.6	5299.1	5339.6	4807.6	3642.5	1883.6
80°	130.7	143.7	206.6	370.2	1233.0	3147.0	3210.4	2857.1	1712.0	567.3
82.5°	72.4	78.3	115.8	201.1	555.4	1345.7	1383.7	1128.7	602.3	240.5
85°	38.9	41.4	54.4	109.8	271.4	466.5	477.0	337.3	240.0	141.2
87.5°	11.5	14.0	18.0	34.9	106.3	104.8	107.3	66.9	94.8	71.4
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°
955.5	0°	955.5	955.5	955.5	955.5	955.5	955.5	955.5	955.5	955.5	955.5
963.0	2.5°	960.0	958.5	953.0	950.6	947.6	947.1	949.6	950.1	950.6	951.0
974.0	5°	969.0	964.0	959.0	956.0	957.0	957.5	962.5	966.0	968.5	970.5
994.5	7.5°	986.5	982.5	974.0	973.5	975.0	979.5	986.0	994.0	998.5	1001.9
1020.9	10°	1012.4	1004.9	995.0	996.5	999.5	1005.9	1019.4	1025.9	1033.4	1039.9
1053.3	12.5°	1038.9	1032.4	1020.9	1021.9	1026.9	1038.4	1051.3	1059.3	1064.3	1069.3
1088.3	15°	1073.3	1061.8	1049.3	1049.3	1058.3	1070.8	1076.8	1083.3	1086.3	1091.8
1125.7	17.5°	1108.7	1093.8	1077.3	1076.3	1087.3	1093.3	1096.8	1097.7	1098.7	1104.7
1162.1	20°	1144.2	1127.7	1104.2	1102.2	1104.7	1103.7	1103.2	1102.2	1103.7	1111.2
1199.5	22.5°	1179.1	1160.1	1127.7	1118.7	1111.7	1102.2	1101.7	1101.2	1102.2	1109.7
1240.0	25°	1220.0	1197.0	1153.6	1126.7	1103.2	1090.3	1091.8	1092.3	1093.3	1099.2
1281.9	27.5°	1264.4	1239.0	1177.6	1124.2	1081.8	1072.8	1070.3	1071.8	1075.3	1084.8
1323.8	30°	1308.8	1278.9	1199.5	1114.2	1054.8	1042.4	1034.4	1037.9	1048.8	1058.3
1360.2	32.5°	1349.2	1319.3	1217.0	1092.3	1020.4	1000.9	990.5	995.0	1005.9	1009.4
1400.6	35°	1396.6	1362.7	1224.5	1057.3	983.0	953.0	939.1	932.6	938.1	934.6
1448.0	37.5°	1449.5	1414.1	1223.5	1011.4	939.1	904.6	885.2	860.7	849.3	837.3
1517.9	40°	1527.9	1477.0	1211.5	956.0	884.7	853.3	818.3	776.9	751.0	727.5
1630.7	42.5°	1634.6	1564.3	1189.6	895.2	823.3	793.9	746.5	698.1	657.2	618.2
1801.8	45°	1793.8	1678.6	1162.1	830.3	756.9	728.0	676.6	622.2	575.8	525.9
2044.8	47.5°	2023.4	1832.2	1136.2	756.4	687.1	660.6	614.2	563.8	509.0	460.6
2396.1	50°	2338.7	2052.8	1112.2	684.6	618.2	598.3	561.3	510.0	454.6	415.6
2807.7	52.5°	2739.9	2352.7	1102.2	615.2	553.9	546.4	516.9	469.0	416.6	383.7
3287.8	55°	3200.4	2711.4	1102.2	548.9	497.5	500.0	479.5	435.1	389.7	360.3
3782.7	57.5°	3670.5	3074.7	1082.3	487.5	449.6	460.1	447.1	408.2	367.2	336.8
4303.2	60°	4103.6	3379.1	1001.4	431.6	407.2	423.6	415.1	381.7	331.8	306.4
4738.3	62.5°	4436.4	3550.7	845.8	387.2	372.2	391.2	386.7	346.8	325.3	314.9
5095.6	65°	4603.1	3522.8	646.7	347.8	342.8	372.2	362.8	361.3	344.3	332.3
5211.8	67.5°	4500.8	3282.3	469.0	318.8	325.8	354.8	391.2	397.2	365.7	342.3
4884.5	70°	4052.2	2847.2	349.3	291.4	304.4	355.3	446.1	415.6	358.8	331.3
3917.5	72.5°	3082.7	2123.1	270.9	262.5	276.4	357.8	470.5	407.2	338.8	366.2
2440.5	75°	1762.9	1165.6	217.6	227.0	241.5	334.3	458.1	385.2	323.3	336.3
967.0	77.5°	672.1	448.1	179.6	192.1	194.1	291.9	438.1	383.7	307.9	300.4
289.9	80°	233.0	175.1	148.7	152.7	150.2	259.5	420.1	333.8	252.0	225.5
119.8	82.5°	95.3	87.3	117.8	112.8	106.8	201.6	339.3	272.9	206.1	182.1
57.9	85°	41.4	55.4	77.8	68.4	61.9	139.7	271.9	231.0	174.1	150.2
19.0	87.5°	8.5	21.0	32.9	30.9	31.9	93.3	193.1	164.2	123.2	92.3
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°  
955.5  
953.0  
971.5  
1002.9  
1038.4  
1071.3  
1093.8  
1106.7  
1114.2  
1114.7  
1107.2  
1094.3  
1068.8  
1021.9  
945.6  
844.8  
729.0  
614.7  
519.9  
455.1  
413.2  
381.2  
357.3  
331.8  
302.4  
311.4  
328.3  
338.3  
326.8  
363.3  
336.3  
273.9  
218.1  
180.1  
149.7  
72.4  
0.0

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