

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: P939372

Luminaire Tested: **GALN-SB1D-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939372
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-SB1D-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7312 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

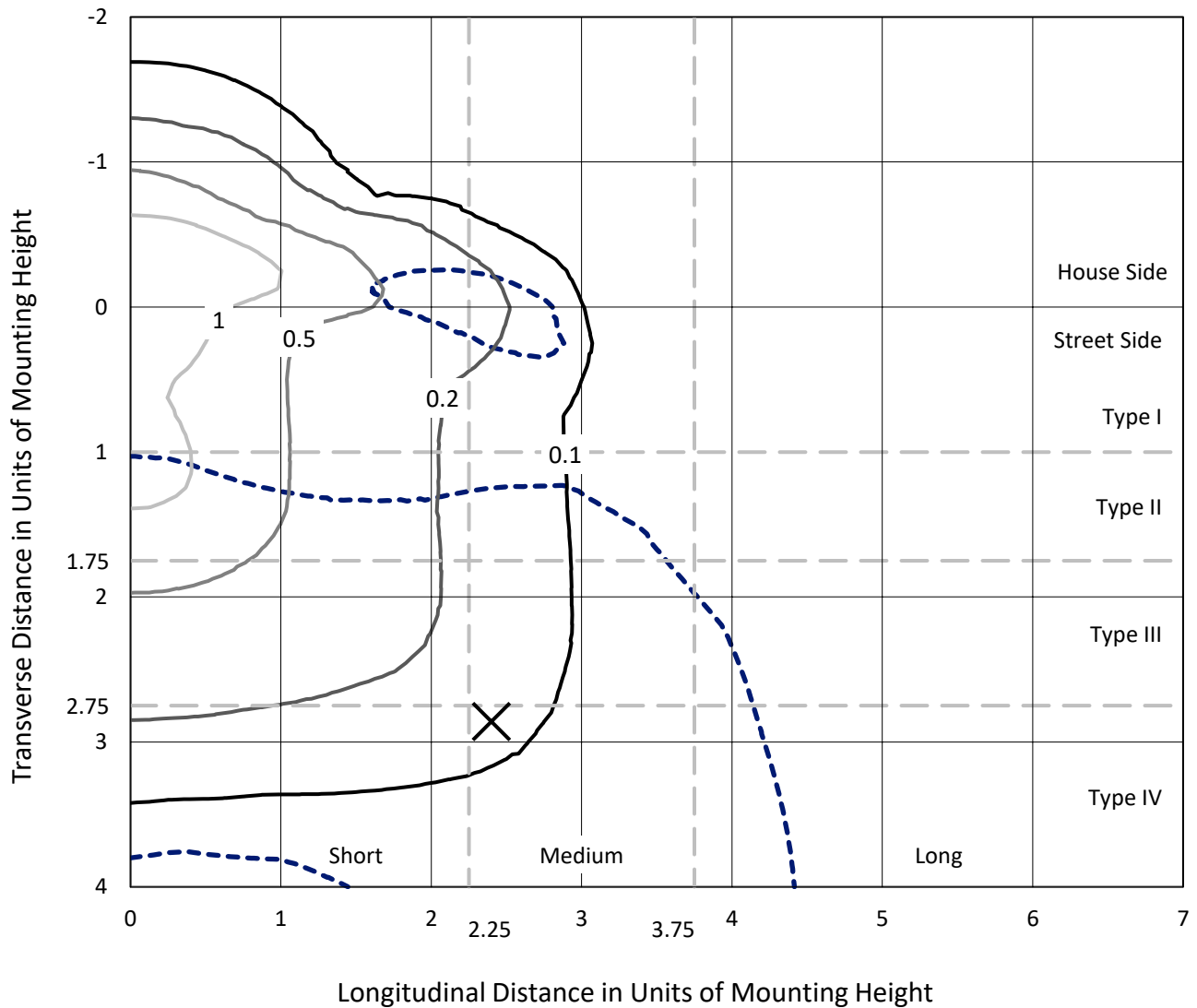
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

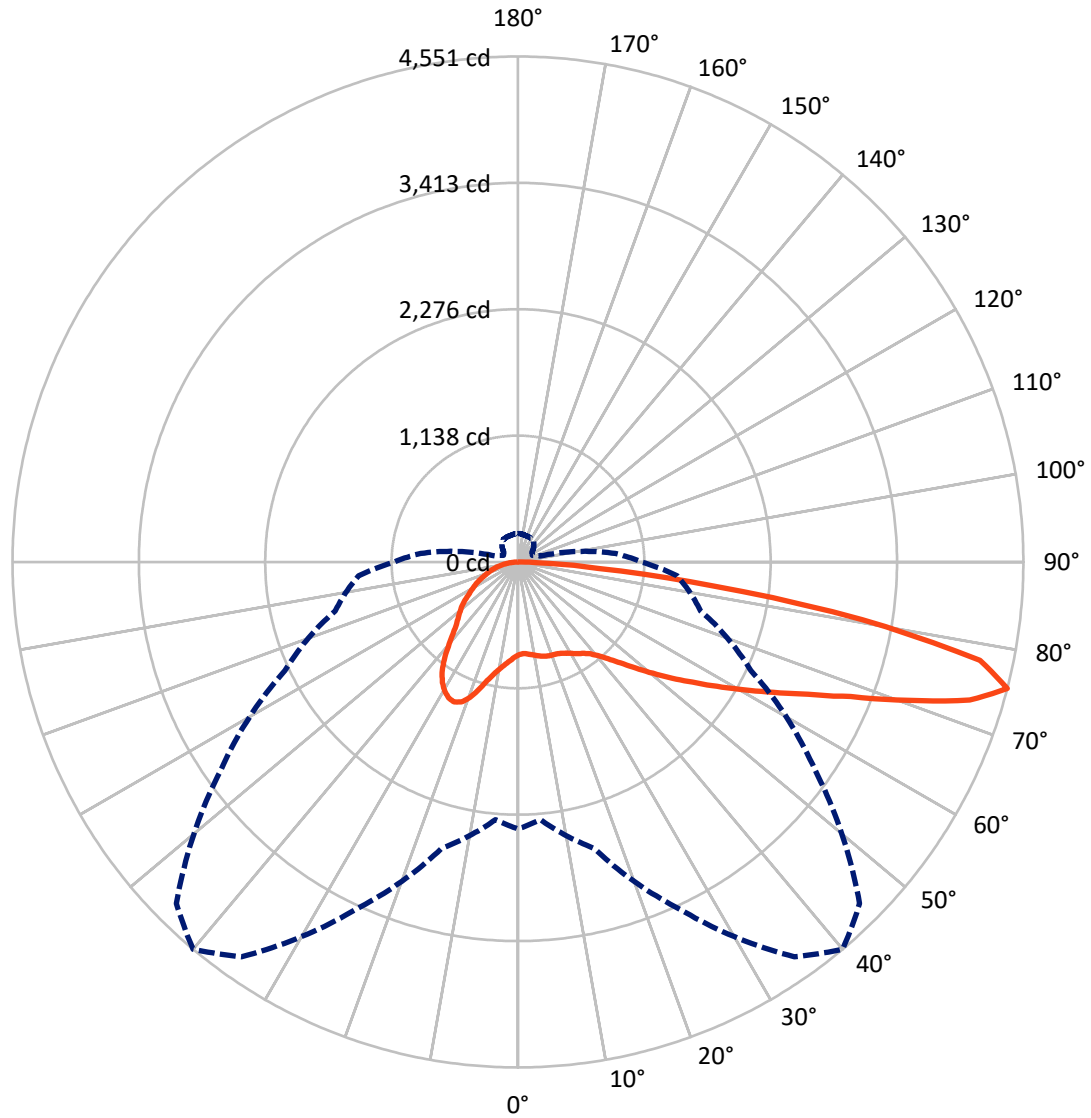
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2265.5	0.0	2265.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	5046.5	0.0	5046.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	7312.0	0.0	7312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	1.1
10°-20°	280.2	3.8
20°-30°	511.7	7.0
30°-40°	725.7	9.9
40°-50°	979.9	13.4
50°-60°	1318.2	18.0
60°-70°	1673.1	22.9
70°-80°	1518.4	20.8
80°-90°	221.3	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°	7312.0	100.0
0°-180°	7312.0	100.0

Coefficient of Utilization



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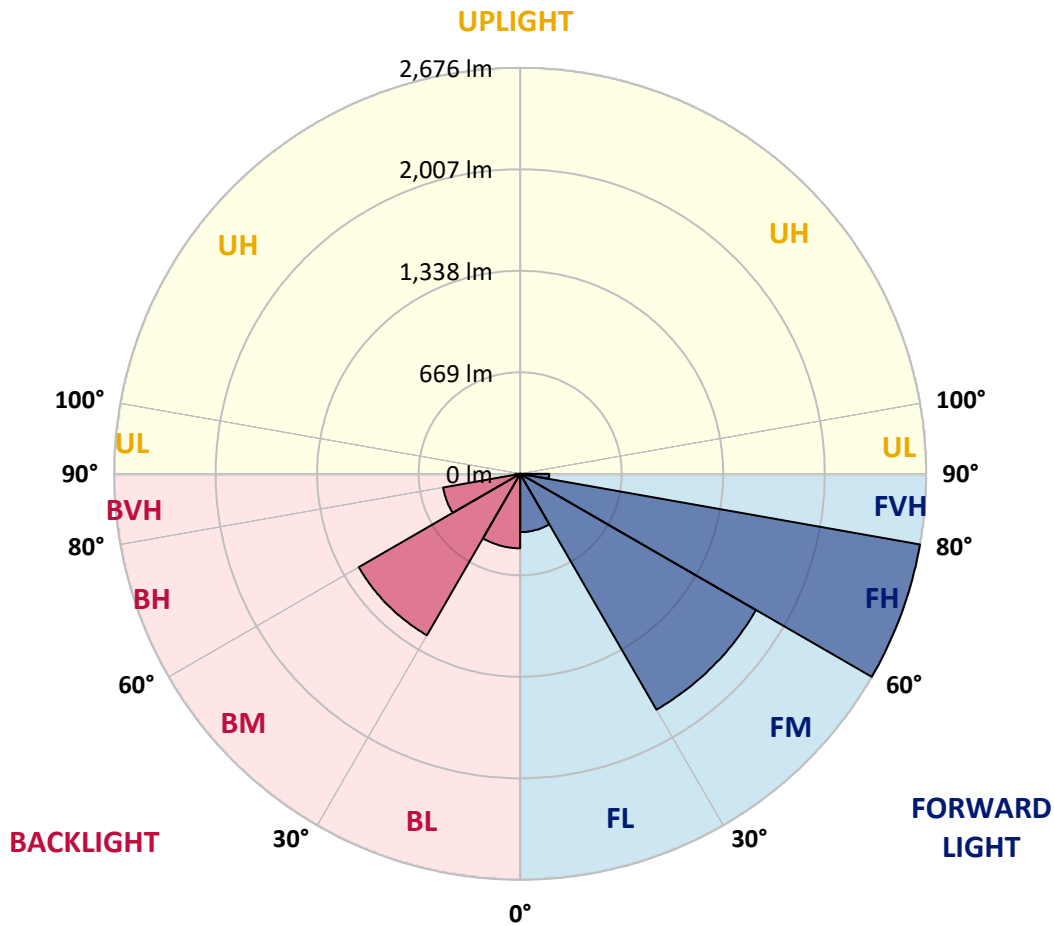
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.6	5.3			
FM (30°-60°)	1794.9	24.5			
FH (60°-80°)	2676.1	36.6			G2/5000
FVH (80°-90°)	190.9	2.6			G2/225
BL (0°-30°)	490.7	6.7	B1/500		
BM (30°-60°)	1228.8	16.8	B2/2500		
BH (60°-80°)	515.5	7.0	B2/1000		G2/1000
BVH (80°-90°)	30.5	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	836.1	836.1	836.1	836.1	836.1	836.1	836.1	836.1	836.1	836.1
2.5°	823.3	828.0	826.8	825.3	825.3	825.7	825.3	828.0	830.7	833.4
5°	831.9	836.5	834.2	832.3	830.7	830.3	829.2	828.8	830.3	833.8
7.5°	848.5	853.2	849.7	846.2	843.1	841.6	840.0	837.7	836.5	838.5
10°	867.2	871.8	867.6	861.3	856.3	854.4	852.8	850.5	848.9	850.1
12.5°	885.8	890.4	884.6	876.1	869.5	868.3	866.4	865.6	865.2	864.8
15°	903.2	907.1	899.7	889.7	882.7	880.7	878.8	880.0	881.9	884.2
17.5°	916.8	920.7	909.8	896.6	890.0	889.3	888.1	892.0	897.4	903.2
20°	929.2	933.1	919.1	901.3	893.5	893.5	893.9	902.1	909.8	918.4
22.5°	946.7	949.8	932.7	908.3	897.0	897.8	900.9	909.0	918.7	930.4
25°	972.6	975.0	954.0	921.5	908.7	911.0	913.7	917.6	926.9	940.5
27.5°	1014.5	1016.5	988.9	944.7	925.3	929.2	933.1	930.4	934.6	946.3
30°	1073.5	1074.6	1039.7	981.2	953.6	955.6	956.4	945.1	937.0	946.3
32.5°	1143.3	1142.9	1101.4	1025.4	985.8	983.9	977.3	955.2	936.2	944.3
35°	1251.5	1247.2	1193.7	1087.4	1022.3	1010.3	994.8	966.4	940.1	942.4
37.5°	1430.7	1417.5	1343.4	1189.1	1076.6	1045.9	1023.1	984.7	948.6	941.6
40°	1632.7	1616.0	1534.6	1328.3	1158.0	1108.8	1071.9	1010.7	962.6	945.1
42.5°	1872.4	1848.7	1761.1	1492.3	1261.2	1189.8	1134.4	1043.6	983.1	956.4
45°	2166.7	2135.3	2011.2	1677.3	1391.1	1296.1	1222.0	1093.6	1014.5	978.1
47.5°	2464.2	2472.0	2295.5	1889.1	1547.0	1427.2	1331.8	1168.9	1060.3	1013.0
50°	2780.3	2785.7	2578.2	2123.7	1723.9	1575.3	1455.1	1253.0	1123.9	1062.6
52.5°	3026.9	3027.7	2835.0	2369.2	1908.1	1738.2	1588.1	1349.2	1197.6	1128.6
55°	3181.3	3179.3	3014.9	2601.5	2119.8	1909.2	1735.5	1458.6	1287.6	1206.1
57.5°	3293.4	3287.5	3139.0	2801.2	2345.5	2111.3	1902.3	1582.7	1393.8	1298.4
60°	3336.0	3332.5	3223.2	2973.8	2582.9	2334.7	2094.6	1721.5	1514.4	1407.4
62.5°	3352.3	3358.9	3305.8	3140.9	2836.9	2582.1	2306.0	1887.5	1650.2	1530.7
65°	3409.7	3421.7	3410.9	3359.7	3123.9	2871.8	2586.4	2084.9	1798.3	1663.0
67.5°	3523.3	3535.4	3540.0	3621.5	3474.5	3232.9	2936.2	2330.8	1971.7	1800.3
70°	3520.6	3517.1	3599.3	3829.7	3913.5	3732.8	3407.8	2633.3	2178.4	1914.3
72.5°	3204.5	3176.6	3370.9	3827.4	4278.8	4254.8	3983.7	3023.4	2356.8	1928.2
75°	2404.1	2329.6	2672.8	3449.3	4339.7	4551.1	4349.8	3265.4	2314.5	1703.7
77.5°	1028.1	953.3	1357.8	2553.4	3884.0	4254.4	4013.9	2848.9	1847.6	1126.6
80°	269.1	268.8	410.3	1157.6	2641.4	3141.7	2756.2	1839.8	1055.6	402.6
82.5°	111.3	108.6	150.9	450.3	1290.7	1763.0	1438.8	820.6	381.2	109.0
85°	41.5	41.1	73.3	155.5	455.3	727.2	526.3	209.8	95.0	53.1
87.5°	11.6	11.2	15.9	53.9	110.9	168.3	90.0	34.5	26.8	20.9
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°
836.1	0°	836.1	836.1	836.1	836.1	836.1	836.1	836.1	836.1	836.1	836.1
837.7	2.5°	838.9	840.8	844.3	847.0	850.5	854.4	859.8	863.3	866.8	869.1
839.6	5°	842.3	846.6	855.5	864.4	874.9	884.6	895.9	904.0	910.6	912.5
846.6	7.5°	850.1	857.1	872.2	887.3	904.0	919.9	936.2	950.2	961.4	965.7
859.0	10°	863.7	873.0	894.3	915.6	937.7	962.2	983.1	1003.3	1019.2	1025.8
873.8	12.5°	880.7	892.4	920.3	949.8	980.4	1014.1	1041.3	1066.1	1085.9	1094.8
894.3	15°	902.8	918.0	953.6	993.2	1038.2	1085.1	1119.6	1147.2	1169.3	1180.1
915.6	17.5°	926.9	947.1	992.0	1051.8	1116.1	1177.8	1218.1	1238.3	1261.2	1271.7
935.4	20°	950.2	975.0	1039.4	1126.2	1211.9	1277.5	1310.1	1315.5	1317.0	1318.2
954.0	22.5°	974.2	1007.6	1098.7	1220.1	1312.0	1357.4	1362.0	1338.7	1306.2	1291.0
972.3	25°	1000.6	1044.8	1176.3	1323.6	1398.1	1403.5	1367.8	1311.2	1249.6	1221.2
987.0	27.5°	1026.2	1087.8	1269.3	1422.5	1460.1	1412.4	1335.6	1255.4	1180.9	1151.0
997.5	30°	1051.8	1137.1	1372.1	1509.0	1488.4	1390.3	1284.8	1195.3	1120.4	1089.0
1006.8	32.5°	1077.7	1194.5	1490.4	1571.4	1483.4	1343.4	1221.6	1127.8	1061.8	1028.9
1014.9	35°	1107.2	1265.1	1602.5	1605.6	1449.7	1274.4	1138.2	1047.1	989.7	963.3
1024.6	37.5°	1145.6	1354.7	1701.4	1614.1	1390.7	1173.2	1034.7	951.7	904.4	892.4
1039.0	40°	1193.3	1462.5	1777.0	1600.5	1303.5	1050.2	921.5	855.1	828.4	831.1
1058.4	42.5°	1255.4	1583.1	1830.1	1565.6	1182.1	923.4	822.2	792.7	805.5	816.4
1087.4	45°	1336.0	1708.3	1863.1	1506.3	1044.8	816.0	763.6	770.6	780.3	781.5
1134.4	47.5°	1439.2	1835.2	1884.8	1416.7	904.8	740.3	726.4	727.9	726.0	717.9
1204.6	50°	1568.0	1958.5	1904.2	1298.0	785.7	693.0	674.4	669.0	642.2	615.9
1298.0	52.5°	1714.5	2071.7	1912.3	1150.7	693.0	653.5	623.2	589.1	539.1	530.9
1415.5	55°	1877.4	2176.4	1891.4	969.5	615.1	602.7	556.9	515.8	510.4	503.4
1570.3	57.5°	2072.1	2289.3	1848.7	767.5	535.2	543.3	498.7	503.4	493.7	482.8
1769.2	60°	2285.0	2406.0	1773.9	583.3	452.6	469.3	483.6	483.2	480.5	471.6
1979.0	62.5°	2476.6	2482.8	1626.5	446.8	380.1	411.9	451.0	450.6	448.3	443.3
2198.2	65°	2590.6	2471.2	1380.6	351.8	320.3	364.5	406.8	409.9	410.3	409.9
2363.0	67.5°	2570.5	2335.1	1043.2	280.0	271.1	316.5	363.0	367.3	370.4	371.1
2383.9	70°	2342.4	2036.0	680.2	223.4	227.3	274.2	321.5	325.8	328.5	331.6
2068.6	72.5°	1825.9	1497.0	389.4	180.7	188.9	237.7	280.4	285.4	287.0	292.8
1439.6	75°	1112.7	880.3	210.2	142.3	155.1	203.2	239.7	245.5	248.2	255.2
707.0	77.5°	529.0	381.2	119.8	110.9	124.9	166.0	202.4	209.0	201.7	205.5
195.1	80°	178.8	141.6	75.6	84.5	95.4	129.5	162.1	168.7	153.2	152.4
64.8	82.5°	62.4	57.4	48.1	56.2	61.7	92.7	122.6	131.1	114.0	113.6
29.1	85°	24.4	23.3	26.8	30.6	36.8	57.0	80.7	84.9	70.2	56.6
8.5	87.5°	5.0	5.4	6.6	7.0	11.2	19.8	29.1	35.7	28.3	24.0
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>
836.1
867.6
913.3
966.1
1026.2
1094.8
1179.4
1271.3
1321.3
1295.3
1225.5
1154.5
1092.5
1033.1
969.2
900.9
840.4
826.4
789.2
724.1
619.3
533.6
504.6
480.9
468.5
441.3
409.9
371.9
333.1
295.1
256.0
202.4
150.9
108.2
55.8
22.1
0.0

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