

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: P940225

Luminaire Tested: **GALN-SB3A-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9664 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

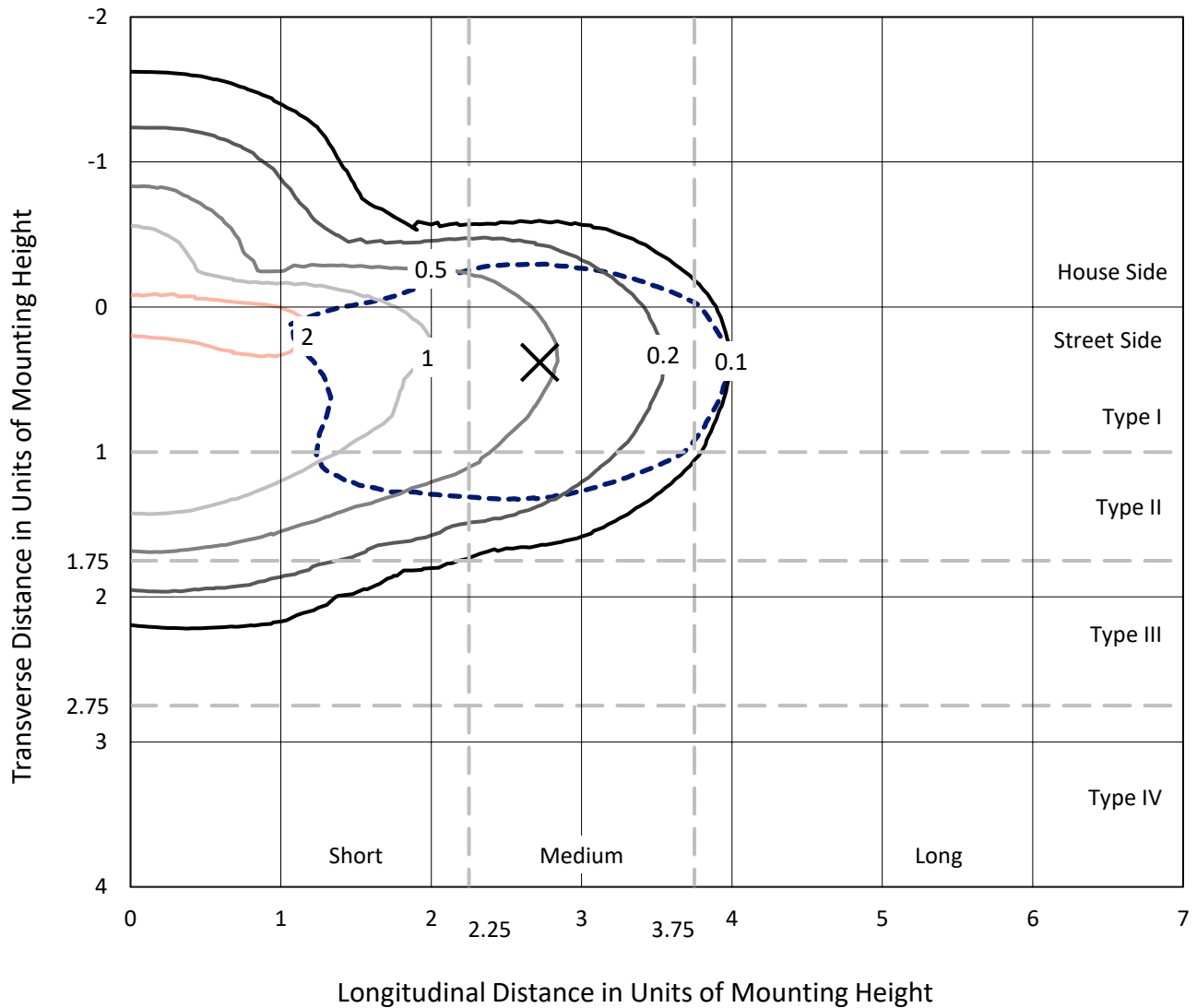
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

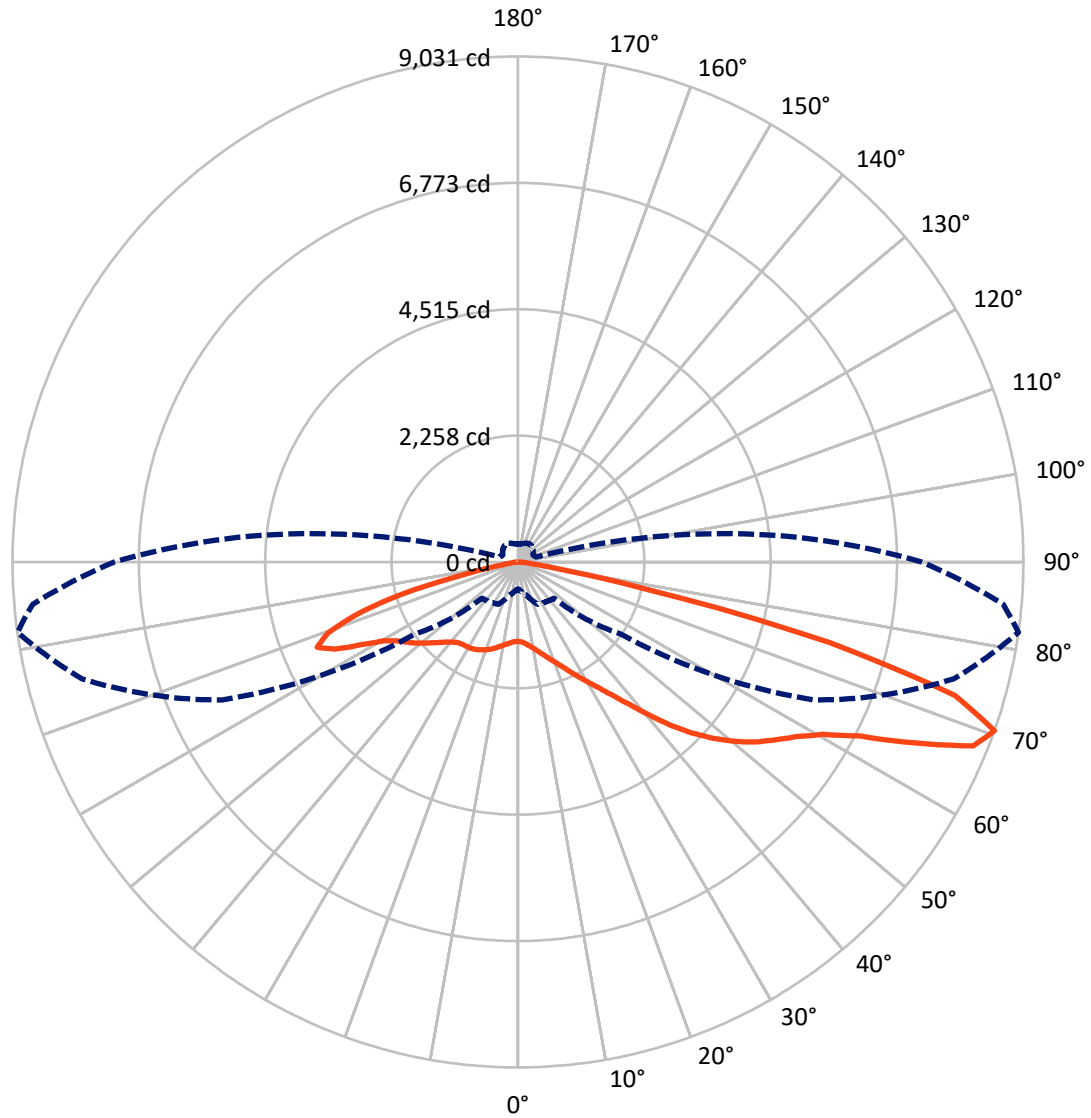
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2382.4	0.0	2382.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	7281.6	0.0	7281.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	9664.0	0.0	9664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	1.4
10°-20°	384.3	4.0
20°-30°	643.0	6.7
30°-40°	1004.5	10.4
40°-50°	1599.8	16.6
50°-60°	2226.3	23.0
60°-70°	2328.8	24.1
70°-80°	1217.2	12.6
80°-90°	126.4	1.3
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°	9664.0	100.0
0°-180°	9664.0	100.0

Coefficient of Utilization



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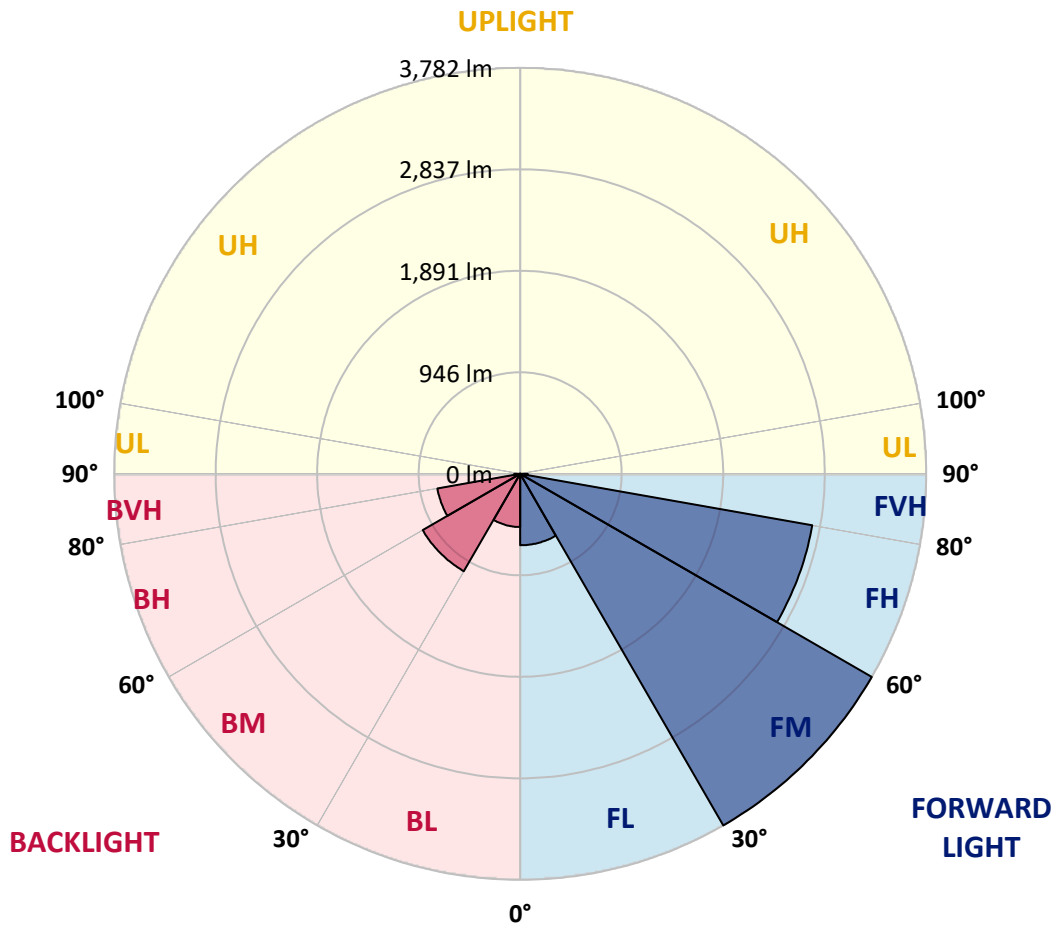
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	665.5	6.9			
FM (30°-60°)	3782.4	39.1			
FH (60°-80°)	2763.0	28.6			G2/5000
FVH (80°-90°)	70.8	0.7			G1/100
BL (0°-30°)	495.6	5.1	B1/500		
BM (30°-60°)	1048.2	10.8	B2/2500		
BH (60°-80°)	783.0	8.1	B2/1000		G2/1000
BVH (80°-90°)	55.6	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9
2.5°	1450.7	1458.9	1456.3	1453.8	1453.8	1450.2	1449.7	1444.6	1440.5	1433.8
5°	1469.2	1477.9	1476.9	1478.9	1485.6	1487.1	1488.7	1485.6	1477.4	1469.2
7.5°	1452.8	1462.5	1465.6	1477.9	1498.4	1516.9	1530.7	1536.3	1528.7	1516.9
10°	1397.4	1408.1	1418.9	1448.1	1484.6	1528.1	1565.1	1587.1	1585.6	1574.3
12.5°	1285.1	1296.4	1319.4	1376.4	1443.0	1519.9	1588.7	1634.8	1650.7	1642.5
15°	1195.3	1205.1	1222.5	1281.0	1367.6	1484.6	1597.4	1687.1	1727.6	1723.0
17.5°	1192.8	1196.9	1207.6	1235.3	1302.0	1429.2	1588.1	1738.4	1815.8	1815.3
20°	1237.9	1239.4	1245.6	1251.2	1289.2	1387.1	1564.5	1781.0	1914.8	1914.8
22.5°	1300.5	1299.4	1305.6	1300.5	1318.9	1383.5	1549.7	1818.4	2025.0	2033.2
25°	1394.3	1389.2	1387.6	1375.8	1379.4	1416.9	1566.1	1860.9	2155.8	2172.7
27.5°	1519.4	1511.2	1505.6	1478.4	1469.2	1485.6	1616.3	1912.2	2301.4	2330.7
30°	1682.5	1667.6	1659.4	1612.2	1578.9	1581.5	1692.2	1980.4	2453.7	2500.9
32.5°	1905.0	1882.0	1859.9	1782.5	1721.5	1701.5	1790.2	2074.8	2618.9	2694.2
35°	2154.3	2135.8	2112.2	1992.7	1898.9	1852.7	1922.5	2206.6	2812.2	2931.7
37.5°	2394.3	2378.4	2389.6	2228.6	2107.6	2040.4	2095.8	2383.5	3050.6	3227.0
40°	2642.5	2630.1	2631.7	2477.8	2336.8	2261.4	2306.1	2605.5	3324.0	3578.3
42.5°	2912.2	2903.0	2872.2	2735.8	2577.3	2507.1	2548.1	2861.9	3617.3	3978.3
45°	3214.2	3208.6	3179.9	3023.5	2841.9	2763.0	2818.3	3145.0	3912.1	4354.7
47.5°	3475.2	3479.9	3476.3	3344.5	3156.3	3040.4	3106.5	3440.4	4186.5	4708.5
50°	3600.9	3625.0	3660.4	3619.3	3502.4	3384.5	3397.3	3725.5	4448.0	5040.3
52.5°	3535.2	3580.9	3677.3	3742.9	3788.0	3763.4	3729.1	4008.5	4694.2	5339.8
55°	3290.6	3354.7	3514.7	3673.2	3903.4	4082.4	4127.5	4322.4	4934.2	5603.4
57.5°	2845.0	2949.1	3092.7	3413.2	3800.9	4236.7	4592.1	4757.7	5188.5	5884.9
60°	2080.9	2220.4	2398.9	2875.8	3441.9	4154.2	4987.5	5426.4	5550.0	6249.5
62.5°	1331.7	1417.9	1582.0	2031.2	2681.9	3731.1	5108.5	6262.3	6162.8	6847.4
65°	911.8	967.1	1117.4	1369.7	1733.8	2777.3	4784.4	6888.9	7136.1	7795.1
67.5°	662.5	704.6	832.8	1053.8	1129.7	1643.5	3712.7	6860.2	8082.2	8771.4
70°	483.1	512.8	620.5	832.8	869.2	914.3	2249.1	5831.5	8061.7	9030.9
72.5°	357.9	378.4	450.8	646.1	703.6	617.4	1113.3	4238.3	6927.4	8168.4
75°	259.0	274.3	327.7	494.3	563.1	470.2	555.4	2476.8	4832.1	5745.9
77.5°	197.9	209.7	244.6	362.0	450.8	352.8	344.6	1139.4	2291.2	2302.5
80°	159.0	166.7	185.6	254.9	345.6	264.1	224.6	460.0	724.1	612.8
82.5°	116.9	129.7	156.9	179.0	247.2	182.0	136.9	232.3	275.4	236.9
85°	66.7	75.4	94.9	128.2	157.9	111.3	78.5	103.1	128.2	105.1
87.5°	23.6	30.8	33.3	50.3	68.7	46.2	30.3	29.7	42.0	31.3
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°
1416.9	0°	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9
1432.2	2.5°	1427.1	1424.6	1414.3	1400.5	1386.1	1372.2	1367.6	1357.9	1351.2	1347.6
1465.6	5°	1455.8	1447.6	1423.5	1392.8	1360.5	1325.6	1301.0	1278.4	1262.0	1246.6
1511.2	7.5°	1496.9	1482.5	1441.0	1387.1	1329.7	1271.7	1228.7	1195.8	1173.8	1159.4
1564.5	10°	1544.6	1522.5	1458.9	1378.4	1289.7	1206.6	1155.8	1127.6	1113.8	1106.1
1625.6	12.5°	1599.4	1568.1	1477.4	1358.4	1228.7	1133.8	1098.9	1090.7	1091.2	1091.7
1702.5	15°	1667.1	1623.5	1492.2	1314.8	1149.2	1077.9	1071.7	1085.1	1098.9	1105.6
1789.7	17.5°	1743.5	1682.0	1494.8	1243.0	1071.2	1042.0	1061.5	1090.2	1111.2	1120.5
1887.1	20°	1825.6	1741.5	1476.3	1141.5	1007.1	1012.8	1047.6	1084.6	1107.6	1119.4
1998.4	22.5°	1919.4	1805.1	1432.2	1034.8	954.8	981.0	1022.0	1057.9	1082.0	1093.8
2129.1	25°	2026.6	1876.3	1363.0	945.1	909.7	945.1	986.1	1015.9	1035.3	1046.1
2275.3	27.5°	2145.6	1950.7	1270.7	873.8	870.2	908.2	942.0	965.1	975.3	983.5
2430.7	30°	2265.0	2018.4	1158.9	820.0	835.9	871.8	895.9	906.1	909.2	910.7
2604.0	32.5°	2394.3	2076.8	1041.5	775.4	803.0	836.4	850.7	855.3	841.0	831.2
2814.2	35°	2550.7	2139.4	926.6	740.0	770.7	799.5	804.1	800.0	783.0	763.0
3077.8	37.5°	2744.0	2217.3	834.8	714.8	740.5	759.5	753.8	752.8	754.3	730.7
3394.7	40°	2980.9	2318.9	767.7	695.4	715.9	720.0	704.1	712.8	720.5	684.6
3742.4	42.5°	3244.0	2441.4	725.1	682.0	695.4	685.6	661.0	670.7	669.7	622.5
4091.6	45°	3512.2	2574.8	710.2	672.3	676.4	656.9	629.7	632.3	610.7	568.2
4426.5	47.5°	3778.8	2717.8	719.5	664.1	652.8	630.7	609.7	598.4	566.6	534.8
4747.5	50°	4040.3	2868.1	753.3	647.7	620.5	607.7	592.3	572.3	538.4	511.3
5051.1	52.5°	4282.9	3019.4	791.2	620.5	580.0	587.7	577.9	554.8	521.5	493.8
5338.2	55°	4512.6	3170.6	806.1	583.1	542.0	570.2	564.6	522.0	482.0	459.5
5638.7	57.5°	4762.9	3352.7	789.7	535.4	511.3	550.2	528.7	481.5	458.4	441.5
6030.0	60°	5109.5	3638.3	754.3	476.4	482.0	520.5	483.6	464.1	439.0	420.0
6616.6	62.5°	5685.4	4171.1	697.4	417.9	447.7	476.4	462.0	442.5	416.9	398.4
7619.7	65°	6536.6	4911.6	590.2	372.3	409.2	433.3	439.0	419.5	392.8	373.3
8498.6	67.5°	7254.6	5376.2	446.6	334.3	369.7	398.4	414.3	395.4	367.2	348.2
8704.2	70°	7215.1	5038.8	341.0	296.9	334.9	364.1	384.6	369.7	339.5	321.5
7906.3	72.5°	6408.4	4215.2	275.9	259.0	299.5	328.2	352.8	341.5	310.8	293.3
5792.1	75°	4708.0	2992.2	220.5	220.5	255.4	290.8	317.9	310.8	282.6	270.2
2431.7	77.5°	1984.5	1255.3	172.8	183.1	212.3	249.7	283.6	286.1	261.5	276.9
643.0	80°	527.7	346.1	131.8	144.1	166.7	206.1	246.7	245.6	219.0	204.6
239.0	82.5°	201.0	136.4	93.8	101.5	120.5	157.9	195.4	201.5	174.9	151.3
93.8	85°	77.4	58.5	57.9	61.0	70.3	104.6	147.7	152.8	131.8	111.8
26.2	87.5°	20.0	17.4	21.5	20.5	32.3	55.9	84.6	87.7	80.5	46.7
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>
1416.9
1351.7
1252.8
1162.5
1108.2
1092.8
1105.1
1122.5
1122.5
1096.9
1049.2
986.6
914.3
834.3
764.1
732.3
685.6
622.0
569.7
534.8
509.2
494.3
457.4
440.0
419.0
398.4
374.3
348.7
323.1
293.3
266.7
251.3
190.2
151.3
115.4
66.7
0.0

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