

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: P947874

Luminaire Tested: **GALN-SB3A-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947874
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-SB3A-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12070 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

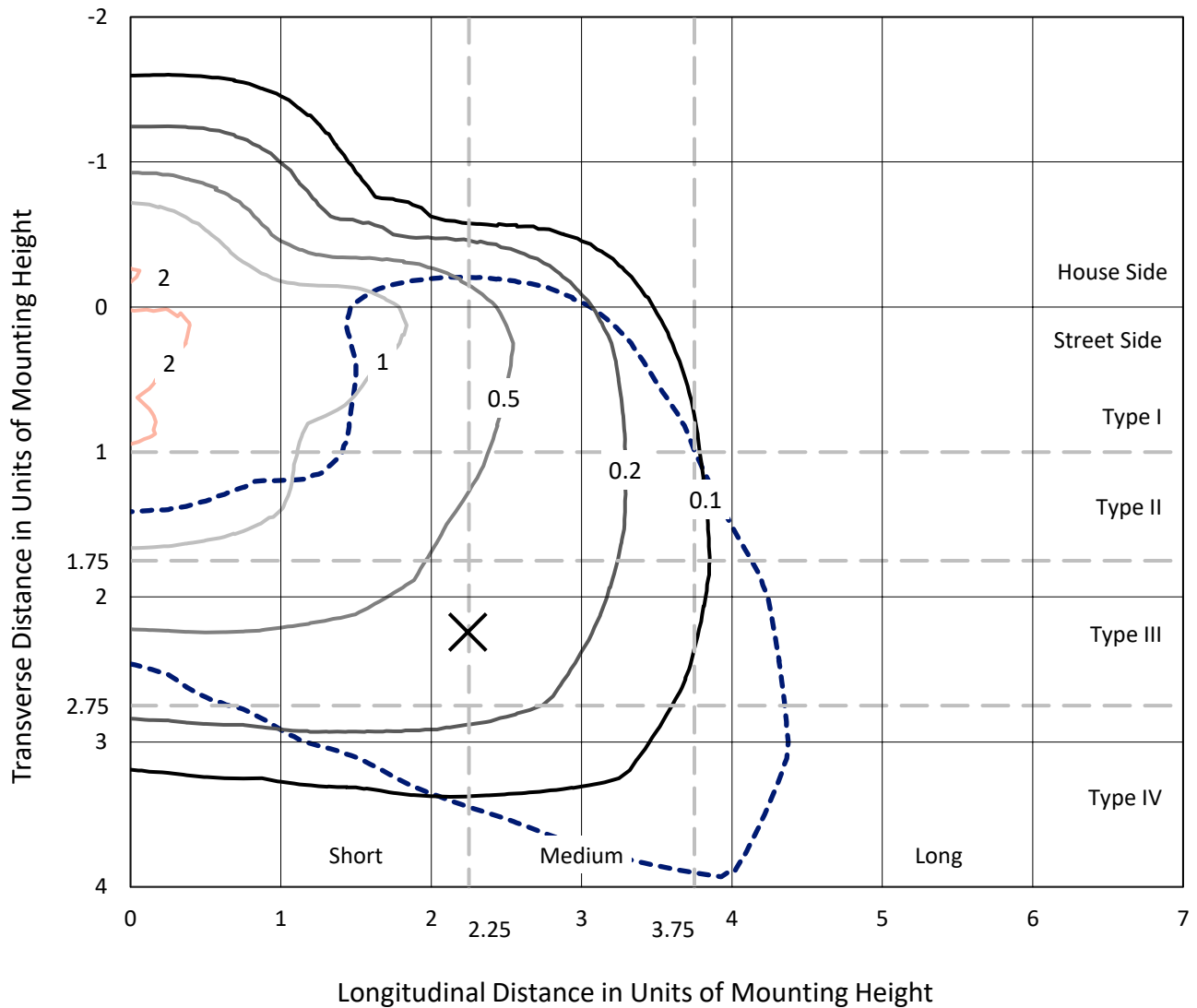
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

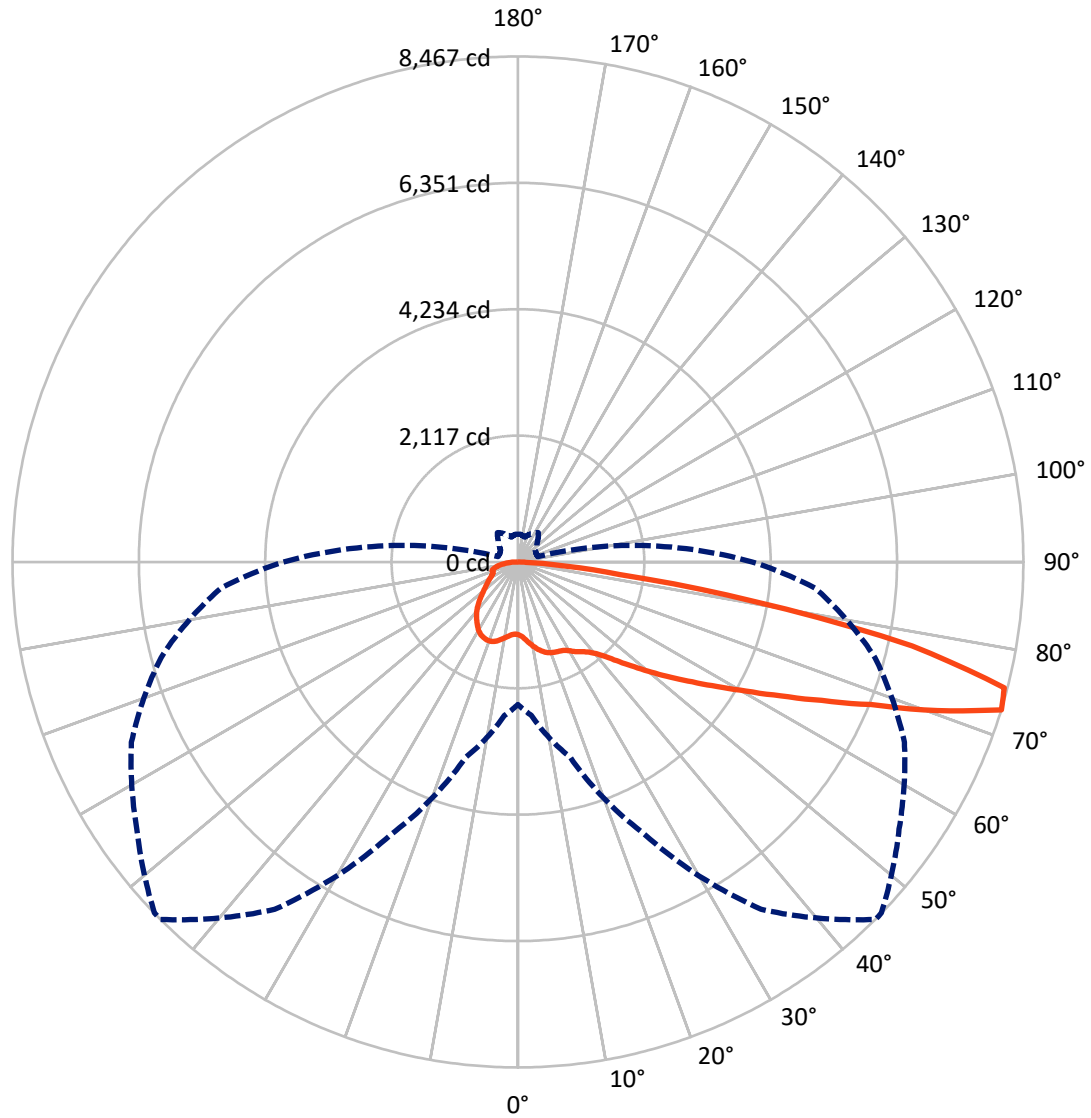
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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
House Side	Lumens	2728.6	0.0	2728.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	9341.4	0.0	9341.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	12070.0	0.0	12070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	1.0
10°-20°	413.2	3.4
20°-30°	718.8	6.0
30°-40°	1030.4	8.5
40°-50°	1450.9	12.0
50°-60°	2222.3	18.4
60°-70°	3219.4	26.7
70°-80°	2570.9	21.3
80°-90°	320.2	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°	12070.0	100.0
0°-180°	12070.0	100.0

Coefficient of Utilization



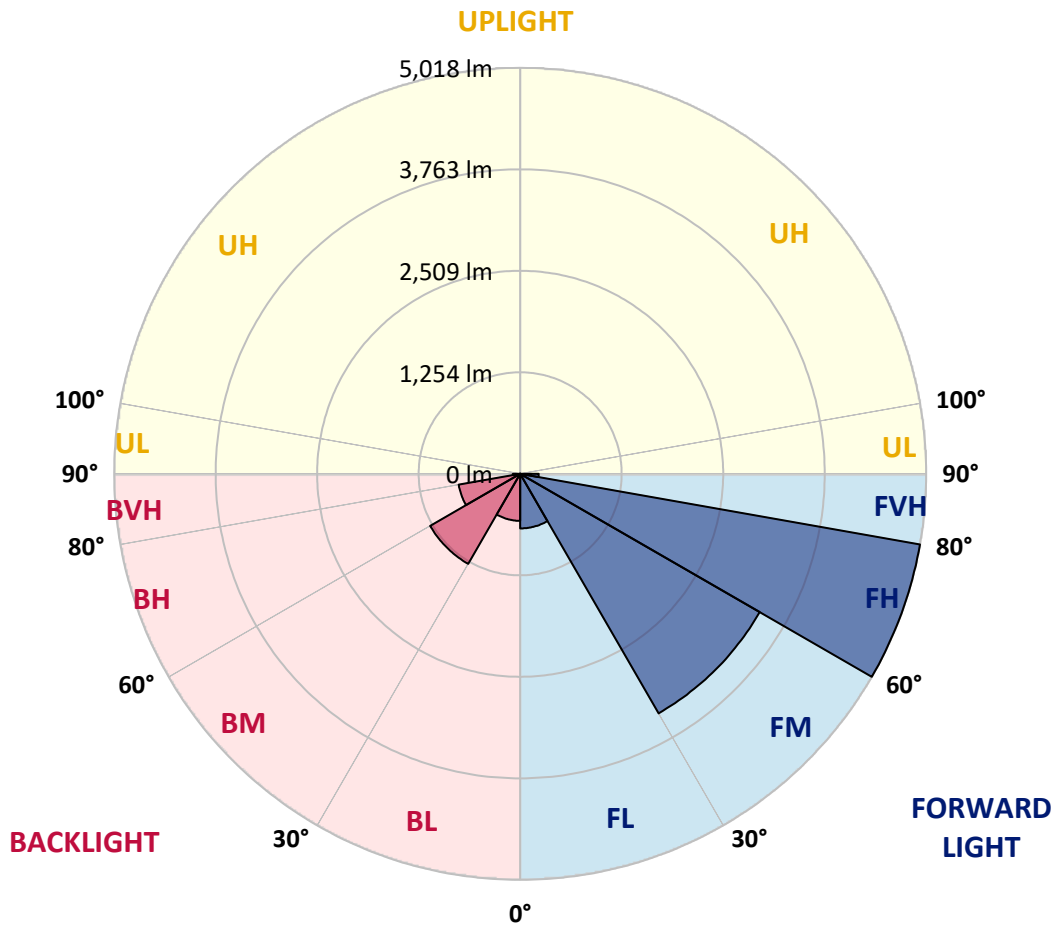
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	675.0	5.6			
FM	(30°-60°)	3418.9	28.3			
FH	(60°-80°)	5017.9	41.6			G3/7500
FVH	(80°-90°)	229.7	1.9			G3/500
BL	(0°-30°)	580.9	4.8	B2/1000		
BM	(30°-60°)	1284.8	10.6	B2/2500		
BH	(60°-80°)	772.4	6.4	B2/1000		G2/1000
BVH	(80°-90°)	90.5	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6
2.5°	1265.3	1273.6	1266.0	1259.0	1255.8	1247.5	1246.9	1241.8	1238.6	1229.7
5°	1353.7	1364.5	1351.8	1337.8	1325.1	1304.7	1302.2	1287.6	1271.0	1252.0
7.5°	1453.5	1463.1	1448.4	1427.5	1405.2	1371.5	1370.9	1344.2	1318.1	1285.7
10°	1540.6	1553.4	1533.6	1505.0	1477.0	1438.9	1434.4	1403.9	1370.9	1328.9
12.5°	1617.6	1626.5	1607.4	1572.4	1540.0	1501.8	1496.1	1462.4	1425.5	1377.9
15°	1678.6	1690.1	1664.6	1627.1	1592.8	1555.3	1550.2	1519.7	1482.8	1432.5
17.5°	1718.7	1728.2	1702.1	1660.2	1627.1	1596.0	1592.1	1566.7	1534.3	1483.4
20°	1733.9	1744.1	1716.8	1674.2	1643.6	1619.5	1617.6	1599.1	1576.9	1530.5
22.5°	1749.2	1758.7	1723.1	1678.6	1651.9	1636.6	1636.0	1623.9	1615.0	1576.9
25°	1810.9	1813.4	1765.7	1701.5	1663.3	1650.0	1649.4	1648.7	1652.5	1622.7
27.5°	1864.3	1863.6	1822.9	1762.5	1703.4	1675.4	1674.8	1681.2	1693.2	1668.4
30°	1942.5	1935.5	1887.2	1824.2	1770.2	1726.9	1723.1	1717.4	1726.9	1707.2
32.5°	2108.4	2086.2	2008.0	1896.1	1825.5	1792.4	1787.3	1751.7	1755.5	1743.5
35°	2346.2	2317.0	2212.7	2032.1	1894.2	1847.1	1844.6	1799.4	1791.8	1781.0
37.5°	2629.2	2592.9	2471.5	2229.2	2012.4	1910.7	1906.9	1866.2	1835.0	1823.6
40°	2913.4	2867.6	2767.2	2469.6	2186.6	2016.9	2004.8	1943.1	1907.5	1888.4
42.5°	3189.4	3151.2	3065.4	2739.2	2401.6	2172.0	2145.3	2039.8	2013.1	1995.3
45°	3433.5	3399.2	3336.2	3027.2	2653.3	2383.1	2357.0	2184.7	2176.5	2176.5
47.5°	3631.9	3624.3	3557.5	3321.0	2950.3	2623.5	2578.3	2386.3	2408.6	2442.9
50°	3851.9	3830.9	3759.7	3610.3	3299.4	2898.8	2861.9	2633.6	2716.9	2811.0
52.5°	4054.1	4065.5	3986.1	3911.7	3693.6	3205.9	3141.0	2925.5	3105.4	3261.2
55°	4262.0	4262.7	4240.4	4230.2	4106.9	3545.4	3474.2	3276.5	3562.6	3755.9
57.5°	4457.2	4458.5	4491.6	4581.2	4586.3	3937.1	3856.4	3707.6	4070.6	4267.7
60°	4631.4	4640.3	4730.6	4940.5	5007.9	4386.0	4309.7	4216.9	4595.8	4794.2
62.5°	4689.9	4722.4	4923.3	5221.5	5424.3	4936.6	4861.6	4806.3	5147.7	5332.1
65°	4590.7	4665.1	5053.6	5453.6	5852.9	5590.9	5516.5	5456.1	5721.3	5894.8
67.5°	4347.2	4443.2	5046.0	5697.1	6373.0	6378.1	6308.8	6167.0	6336.1	6402.9
70°	3705.7	3849.4	4601.6	5788.0	6970.0	7454.6	7387.8	7022.8	6949.7	6626.7
72.5°	2387.6	2580.9	3388.4	5039.6	7102.9	8467.4	8463.6	7795.4	7143.6	6191.8
75°	871.1	989.4	1574.3	3163.3	5962.2	8415.9	8440.7	7663.1	6521.1	4782.8
77.5°	317.3	347.2	513.8	1215.7	3666.9	6752.6	6804.1	6126.3	4641.6	2400.3
80°	166.6	183.1	263.2	471.8	1571.2	4010.2	4091.0	3640.8	2181.6	722.9
82.5°	92.2	99.8	147.5	256.2	707.7	1714.9	1763.2	1438.3	767.5	306.5
85°	49.6	52.8	69.3	139.9	345.9	594.5	607.9	429.8	305.8	179.9
87.5°	14.6	17.8	22.9	44.5	135.4	133.5	136.7	85.2	120.8	90.9
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°
1217.6	0°	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6
1227.2	2.5°	1223.4	1221.4	1214.4	1211.3	1207.5	1206.8	1210.0	1210.6	1211.3	1211.9
1241.2	5°	1234.8	1228.4	1222.1	1218.3	1219.5	1220.2	1226.5	1231.0	1234.2	1236.7
1267.2	7.5°	1257.0	1252.0	1241.2	1240.5	1242.4	1248.1	1256.4	1266.6	1272.3	1276.8
1300.9	10°	1290.1	1280.6	1267.9	1269.8	1273.6	1281.8	1299.0	1307.3	1316.8	1325.1
1342.3	12.5°	1323.8	1315.5	1300.9	1302.2	1308.6	1323.2	1339.7	1349.9	1356.2	1362.6
1386.8	15°	1367.7	1353.1	1337.2	1337.2	1348.6	1364.5	1372.1	1380.4	1384.2	1391.2
1434.4	17.5°	1412.8	1393.8	1372.8	1371.5	1385.5	1393.1	1397.6	1398.8	1400.1	1407.7
1480.9	20°	1458.0	1437.0	1407.1	1404.6	1407.7	1406.5	1405.8	1404.6	1406.5	1416.0
1528.6	22.5°	1502.5	1478.3	1437.0	1425.5	1416.6	1404.6	1403.9	1403.3	1404.6	1414.1
1580.1	25°	1554.6	1525.4	1470.1	1435.7	1405.8	1389.3	1391.2	1391.8	1393.1	1400.7
1633.5	27.5°	1611.2	1578.8	1500.6	1432.5	1378.5	1367.0	1363.9	1365.8	1370.2	1382.3
1686.9	30°	1667.8	1629.7	1528.6	1419.8	1344.2	1328.3	1318.1	1322.5	1336.5	1348.6
1733.3	32.5°	1719.3	1681.2	1550.8	1391.8	1300.3	1275.5	1262.1	1267.9	1281.8	1286.3
1784.8	35°	1779.7	1736.5	1560.3	1347.3	1252.6	1214.4	1196.6	1188.4	1195.4	1190.9
1845.2	37.5°	1847.1	1802.0	1559.1	1288.8	1196.6	1152.8	1128.0	1096.8	1082.2	1066.9
1934.2	40°	1946.9	1882.1	1543.8	1218.3	1127.3	1087.3	1042.8	990.0	956.9	927.1
2077.9	42.5°	2083.0	1993.3	1515.8	1140.7	1049.1	1011.6	951.2	889.5	837.4	787.8
2296.0	45°	2285.8	2139.0	1480.9	1058.0	964.6	927.7	862.2	792.9	733.8	670.2
2605.7	47.5°	2578.3	2334.8	1447.8	963.9	875.5	841.8	782.7	718.5	648.6	586.9
3053.3	50°	2980.2	2615.8	1417.3	872.4	787.8	762.4	715.3	649.8	579.2	529.7
3577.9	52.5°	3491.4	2998.0	1404.6	784.0	705.8	696.2	658.7	597.7	530.9	489.0
4189.5	55°	4078.3	3455.1	1404.6	699.4	633.9	637.1	611.0	554.4	496.6	459.1
4820.3	57.5°	4677.2	3918.0	1379.1	621.2	572.9	586.2	569.7	520.1	468.0	429.2
5483.5	60°	5229.1	4305.9	1276.1	550.0	518.8	539.8	529.0	486.4	422.8	390.4
6037.9	62.5°	5653.2	4524.6	1077.7	493.4	474.3	498.5	492.8	441.9	414.6	401.2
6493.2	65°	5865.6	4489.0	824.0	443.2	436.8	474.3	462.3	460.3	438.7	423.5
6641.3	67.5°	5735.3	4182.5	597.7	406.3	415.2	452.1	498.5	506.1	466.1	436.2
6224.2	70°	5163.6	3628.1	445.1	371.3	387.9	452.7	568.4	529.7	457.2	422.2
4992.0	72.5°	3928.2	2705.5	345.3	334.5	352.3	455.9	599.6	518.8	431.7	466.7
3109.9	75°	2246.4	1485.3	277.2	289.3	307.7	426.0	583.7	490.9	412.0	428.6
1232.3	77.5°	856.5	571.0	228.9	244.8	247.3	372.0	558.3	489.0	392.3	382.8
369.4	80°	296.9	223.2	189.5	194.6	191.4	330.6	535.4	425.4	321.1	287.4
152.6	82.5°	121.4	111.3	150.1	143.7	136.1	256.9	432.4	347.8	262.6	232.1
73.8	85°	52.8	70.6	99.2	87.1	78.8	178.0	346.5	294.4	221.9	191.4
24.2	87.5°	10.8	26.7	42.0	39.4	40.7	118.9	246.1	209.2	157.1	117.6
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>
1217.6
1214.4
1238.0
1278.0
1323.2
1365.1
1393.8
1410.3
1419.8
1420.5
1410.9
1394.4
1362.0
1302.2
1204.9
1076.5
929.0
783.4
662.5
579.9
526.5
485.8
455.3
422.8
385.3
396.8
418.4
431.1
416.5
462.9
428.6
349.1
277.9
229.5
190.8
92.2
0.0

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