

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: P940142

Luminaire Tested: **GALN-SB3A-827-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940142  
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-SB3A-827-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

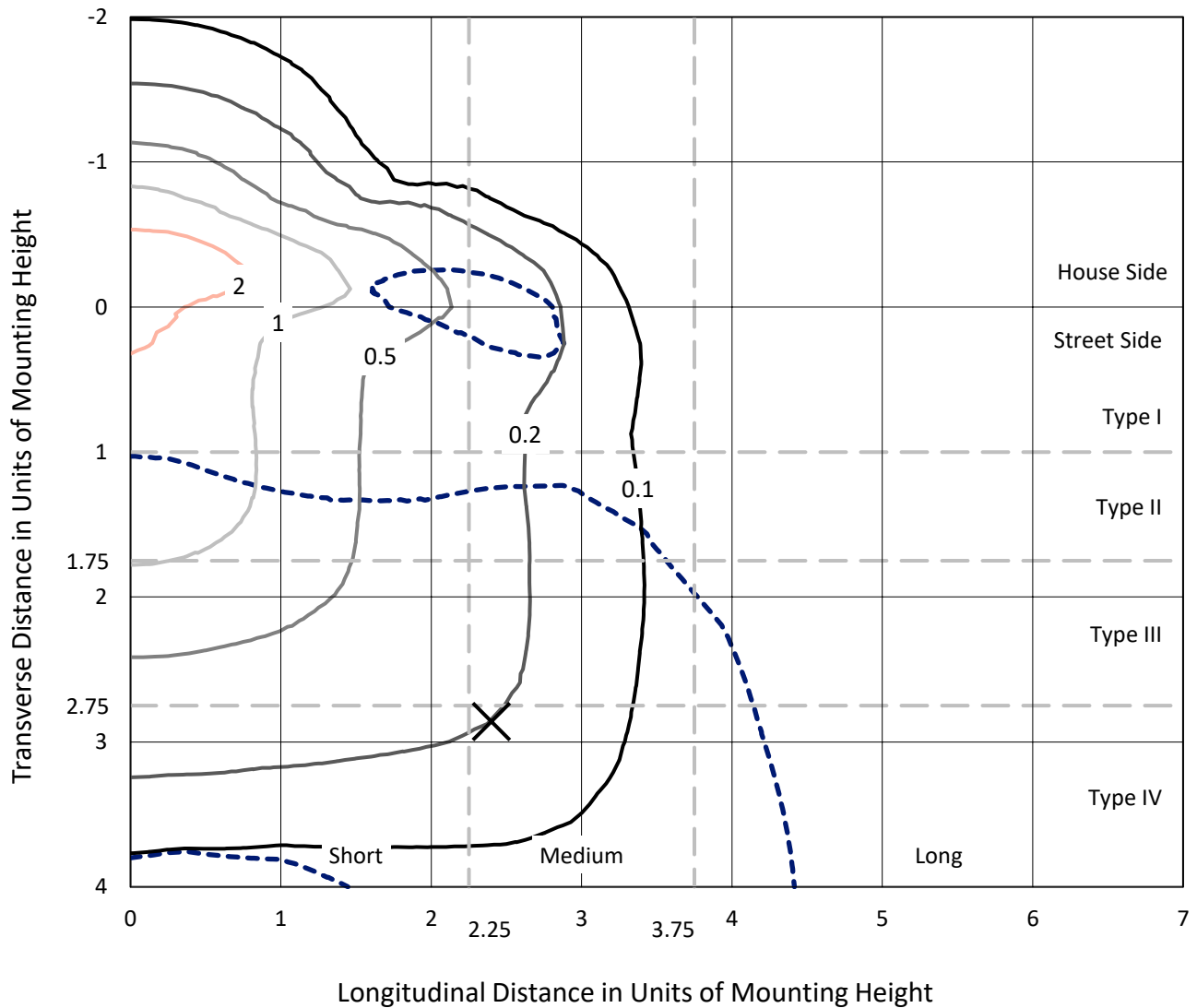
Lumens per Lamp: N/A  
Luminaire Lumens: 11601 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

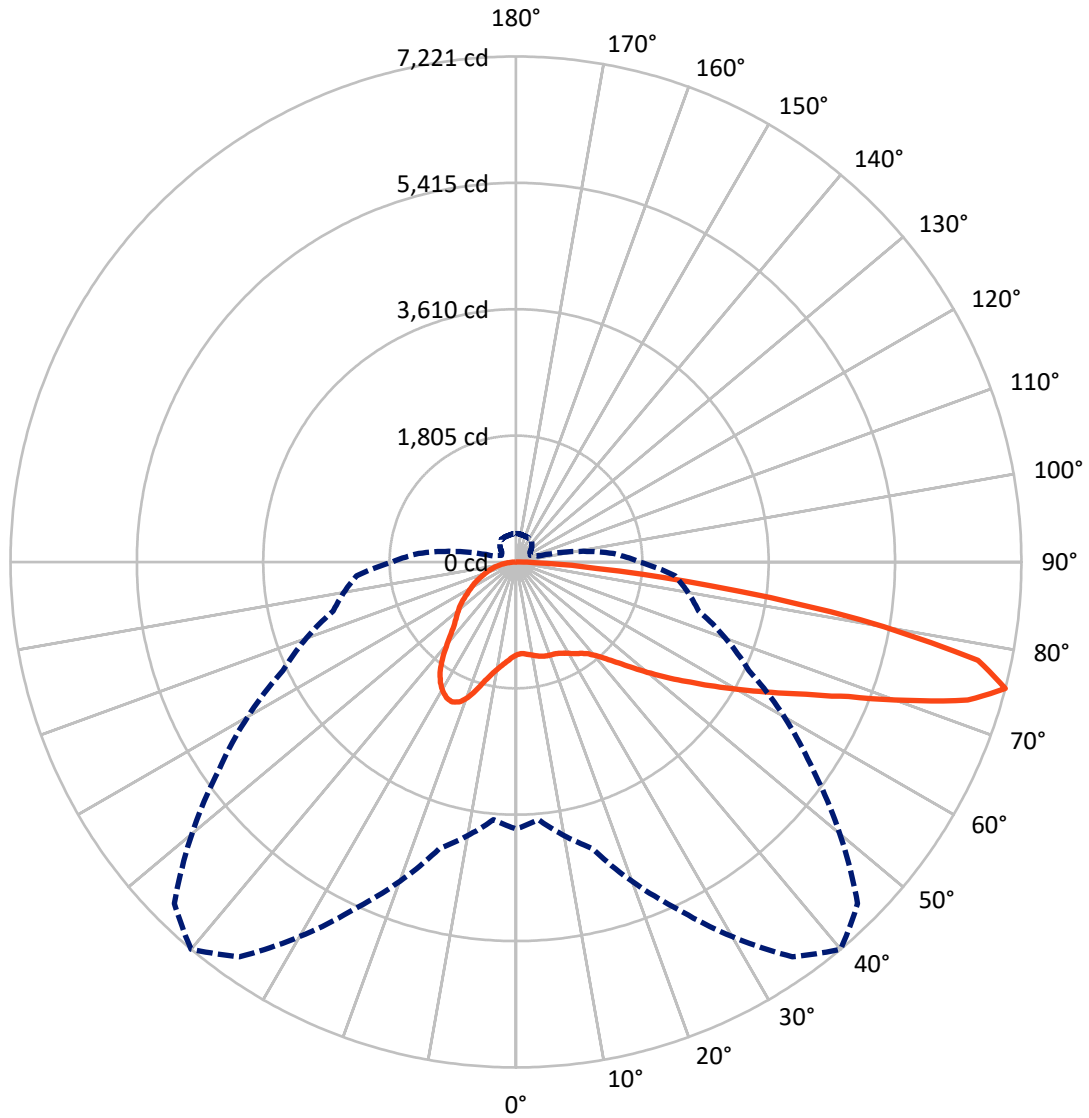
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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
<b>House Side</b>	Lumens	3594.4	0.0	3594.4
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	8006.6	0.0	8006.6
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	11601.0	0.0	11601.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.4	1.1
10°-20°	444.6	3.8
20°-30°	811.8	7.0
30°-40°	1151.3	9.9
40°-50°	1554.6	13.4
50°-60°	2091.4	18.0
60°-70°	2654.5	22.9
70°-80°	2409.1	20.8
80°-90°	351.2	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°	11601.0	100.0
0°-180°	11601.0	100.0



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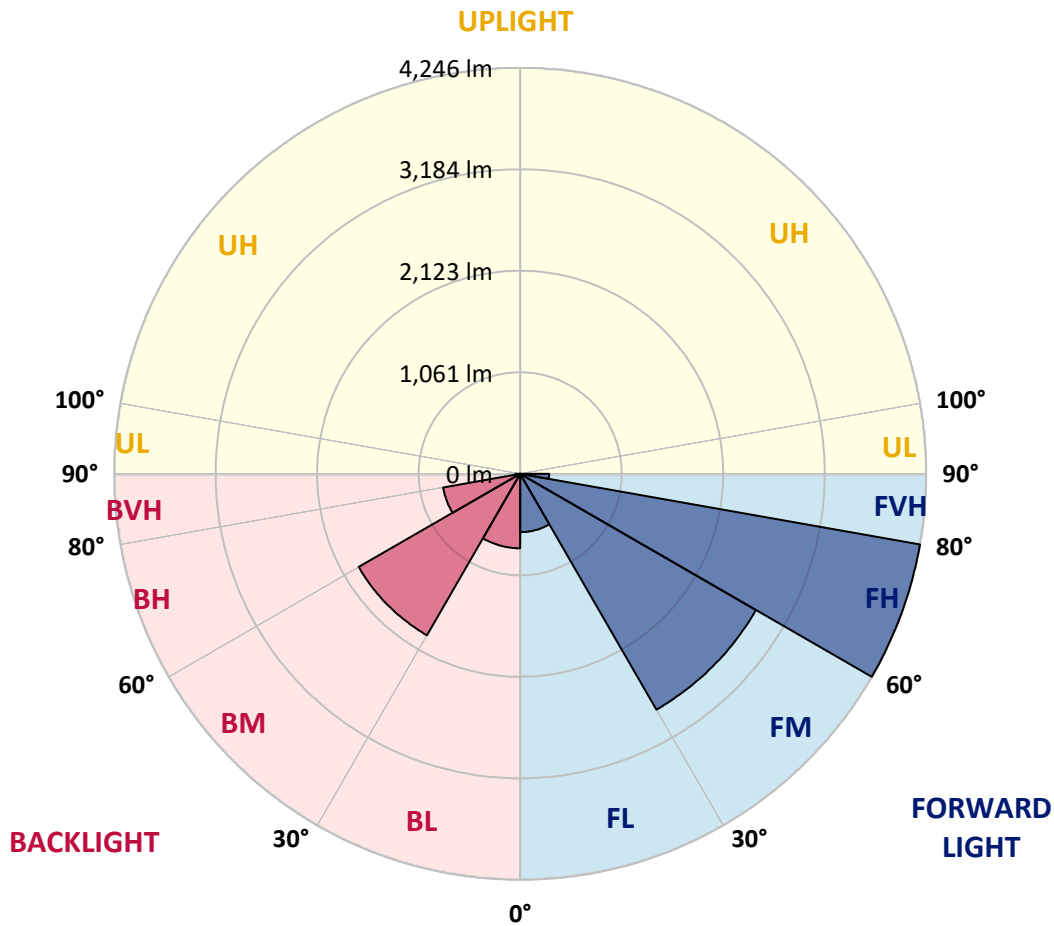
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.2	5.3			
FM (30°-60°)	2847.8	24.5			
FH (60°-80°)	4245.8	36.6			G2/5000
FVH (80°-90°)	302.8	2.6			G3/500
BL (0°-30°)	778.6	6.7	B2/1000		
BM (30°-60°)	1949.6	16.8	B2/2500		
BH (60°-80°)	817.8	7.0	B2/1000		G2/1000
BVH (80°-90°)	48.3	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6
2.5°	1306.3	1313.7	1311.8	1309.4	1309.4	1310.0	1309.4	1313.7	1318.0	1322.3
5°	1319.8	1327.2	1323.5	1320.4	1318.0	1317.4	1315.5	1314.9	1317.4	1322.9
7.5°	1346.3	1353.7	1348.1	1342.6	1337.7	1335.2	1332.7	1329.1	1327.2	1330.3
10°	1375.8	1383.2	1376.4	1366.6	1358.6	1355.5	1353.0	1349.4	1346.9	1348.7
12.5°	1405.3	1412.7	1403.5	1390.0	1379.5	1377.7	1374.6	1373.4	1372.7	1372.1
15°	1433.0	1439.2	1427.5	1411.5	1400.4	1397.3	1394.3	1396.1	1399.2	1402.9
17.5°	1454.6	1460.7	1443.5	1422.6	1412.1	1410.9	1409.0	1415.2	1423.8	1433.0
20°	1474.3	1480.4	1458.3	1430.0	1417.7	1417.7	1418.3	1431.2	1443.5	1457.0
22.5°	1502.0	1506.9	1479.8	1441.0	1423.2	1424.4	1429.3	1442.3	1457.6	1476.1
25°	1543.2	1546.9	1513.6	1462.0	1441.7	1445.3	1449.7	1455.8	1470.6	1492.1
27.5°	1609.6	1612.7	1569.0	1498.9	1468.1	1474.3	1480.4	1476.1	1482.9	1501.3
30°	1703.2	1705.0	1649.6	1556.7	1513.0	1516.1	1517.3	1499.5	1486.6	1501.3
32.5°	1813.9	1813.3	1747.5	1626.9	1564.1	1561.0	1550.6	1515.5	1485.3	1498.3
35°	1985.6	1978.8	1893.9	1725.3	1621.9	1602.9	1578.2	1533.3	1491.5	1495.2
37.5°	2269.8	2248.9	2131.4	1886.5	1708.1	1659.5	1623.2	1562.3	1505.0	1494.0
40°	2590.4	2564.0	2434.7	2107.4	1837.3	1759.1	1700.7	1603.5	1527.2	1499.5
42.5°	2970.7	2933.1	2794.1	2367.7	2001.0	1887.7	1799.8	1655.8	1559.8	1517.3
45°	3437.7	3387.8	3191.0	2661.2	2207.1	2056.3	1938.8	1735.1	1609.6	1551.8
47.5°	3909.6	3921.9	3642.0	2997.1	2454.4	2264.3	2112.9	1854.5	1682.2	1607.2
50°	4411.1	4419.7	4090.5	3369.4	2735.0	2499.4	2308.6	1988.0	1783.1	1685.9
52.5°	4802.4	4803.7	4497.9	3758.9	3027.3	2757.8	2519.7	2140.6	1900.1	1790.5
55°	5047.3	5044.2	4783.4	4127.4	3363.2	3029.1	2753.5	2314.1	2042.8	1913.6
57.5°	5225.1	5215.9	4980.2	4444.3	3721.3	3349.7	3018.1	2511.0	2211.4	2060.0
60°	5292.8	5287.3	5113.8	4718.1	4097.9	3704.1	3323.2	2731.3	2402.8	2232.9
62.5°	5318.7	5329.1	5244.8	4983.3	4500.9	4096.7	3658.6	2994.7	2618.1	2428.6
65°	5409.7	5428.8	5411.6	5330.4	4956.3	4556.3	4103.4	3307.9	2853.2	2638.4
67.5°	5590.0	5609.1	5616.5	5745.7	5512.5	5129.2	4658.4	3698.0	3128.2	2856.2
70°	5585.7	5580.2	5710.6	6076.1	6209.0	5922.3	5406.7	4177.9	3456.1	3037.1
72.5°	5084.2	5039.9	5348.2	6072.4	6788.6	6750.5	6320.4	4796.9	3739.2	3059.3
75°	3814.3	3696.1	4240.7	5472.5	6885.2	7220.6	6901.2	5180.8	3672.1	2703.0
77.5°	1631.2	1512.4	2154.2	4051.1	6162.2	6749.9	6368.4	4520.0	2931.3	1787.5
80°	427.0	426.4	651.0	1836.7	4190.8	4984.6	4372.9	2919.0	1674.9	638.7
82.5°	176.6	172.3	239.4	714.4	2047.7	2797.2	2282.8	1302.0	604.8	172.9
85°	65.8	65.2	116.3	246.7	722.4	1153.7	835.0	332.9	150.7	84.3
87.5°	18.5	17.8	25.2	85.5	176.0	267.0	142.7	54.8	42.5	33.2
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°
1326.6	0°	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6
1329.1	2.5°	1330.9	1334.0	1339.5	1343.8	1349.4	1355.5	1364.1	1369.7	1375.2	1378.9
1332.1	5°	1336.4	1343.2	1357.4	1371.5	1388.1	1403.5	1421.3	1434.3	1444.7	1447.8
1343.2	7.5°	1348.7	1359.8	1383.8	1407.8	1434.3	1459.5	1485.3	1507.5	1525.3	1532.1
1362.9	10°	1370.3	1385.0	1418.9	1452.7	1487.8	1526.6	1559.8	1591.8	1617.0	1627.5
1386.3	12.5°	1397.3	1415.8	1460.1	1506.9	1555.5	1609.0	1652.1	1691.5	1722.8	1737.0
1418.9	15°	1432.4	1456.4	1513.0	1575.8	1647.2	1721.6	1776.4	1820.1	1855.1	1872.4
1452.7	17.5°	1470.6	1502.6	1573.9	1668.7	1770.8	1868.7	1932.7	1964.7	2001.0	2017.6
1484.1	20°	1507.5	1546.9	1649.0	1786.8	1922.8	2026.8	2078.5	2087.1	2089.6	2091.4
1513.6	22.5°	1545.6	1598.6	1743.1	1935.7	2081.6	2153.6	2160.9	2124.0	2072.3	2048.3
1542.6	25°	1587.5	1657.6	1866.2	2100.0	2218.2	2226.8	2170.2	2080.3	1982.5	1937.6
1565.9	27.5°	1628.1	1725.9	2013.9	2256.9	2316.6	2240.9	2119.1	1991.7	1873.6	1826.2
1582.6	30°	1668.7	1804.1	2176.9	2394.1	2361.5	2205.9	2038.5	1896.4	1777.6	1727.8
1597.3	32.5°	1709.9	1895.1	2364.6	2493.2	2353.5	2131.4	1938.2	1789.3	1684.7	1632.4
1610.2	35°	1756.7	2007.1	2542.4	2547.3	2300.0	2021.9	1805.9	1661.3	1570.2	1528.4
1625.6	37.5°	1817.6	2149.2	2699.3	2560.9	2206.5	1861.3	1641.6	1509.9	1434.9	1415.8
1648.4	40°	1893.3	2320.3	2819.3	2539.3	2068.0	1666.2	1462.0	1356.7	1314.3	1318.6
1679.2	42.5°	1991.7	2511.7	2903.6	2484.0	1875.4	1465.0	1304.4	1257.7	1278.0	1295.2
1725.3	45°	2119.7	2710.4	2955.9	2389.8	1657.6	1294.6	1211.5	1222.6	1238.0	1239.8
1799.8	47.5°	2283.4	2911.6	2990.4	2247.7	1435.5	1174.6	1152.5	1154.9	1151.8	1138.9
1911.1	50°	2487.7	3107.3	3021.1	2059.4	1246.6	1099.5	1070.0	1061.4	1018.9	977.1
2059.4	52.5°	2720.2	3286.9	3034.1	1825.6	1099.5	1036.8	988.8	934.6	855.3	842.3
2245.9	55°	2978.7	3453.1	3000.8	1538.3	975.9	956.2	883.6	818.4	809.7	798.7
2491.4	57.5°	3287.6	3632.1	2933.1	1217.7	849.1	862.0	791.3	798.7	783.3	766.1
2807.0	60°	3625.4	3817.3	2814.4	925.4	718.1	744.5	767.3	766.7	762.4	748.2
3139.9	62.5°	3929.3	3939.2	2580.6	708.8	603.0	653.5	715.6	715.0	711.3	703.3
3487.5	65°	4110.2	3920.7	2190.5	558.1	508.2	578.4	645.5	650.4	651.0	650.4
3749.0	67.5°	4078.2	3704.7	1655.2	444.2	430.1	502.1	575.9	582.7	587.6	588.8
3782.3	70°	3716.4	3230.3	1079.2	354.4	360.6	435.0	510.1	516.9	521.2	526.1
3282.0	72.5°	2896.8	2375.1	617.8	286.7	299.7	377.2	444.9	452.9	455.3	464.6
2284.0	75°	1765.3	1396.7	333.5	225.8	246.1	322.4	380.3	389.5	393.8	404.9
1121.7	77.5°	839.3	604.8	190.1	176.0	198.1	263.3	321.2	331.6	320.0	326.1
309.5	80°	283.7	224.6	120.0	134.1	151.4	205.5	257.2	267.7	243.0	241.8
102.8	82.5°	99.1	91.1	76.3	89.2	97.8	147.1	194.4	208.0	180.9	180.3
46.1	85°	38.8	36.9	42.5	48.6	58.5	90.4	128.0	134.8	111.4	89.8
13.5	87.5°	8.0	8.6	10.5	11.1	17.8	31.4	46.1	56.6	44.9	38.1
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>
1326.6
1376.4
1449.0
1532.7
1628.1
1737.0
1871.1
2017.0
2096.3
2055.1
1944.4
1831.8
1733.3
1639.2
1537.6
1429.3
1333.4
1311.2
1252.1
1148.8
982.6
846.7
800.5
763.0
743.3
700.2
650.4
590.1
528.5
468.2
406.1
321.2
239.4
171.7
88.6
35.1
0.0

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