

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: P939592

Luminaire Tested: **GALN-SB2B-735-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939592  
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-SB2B-735-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

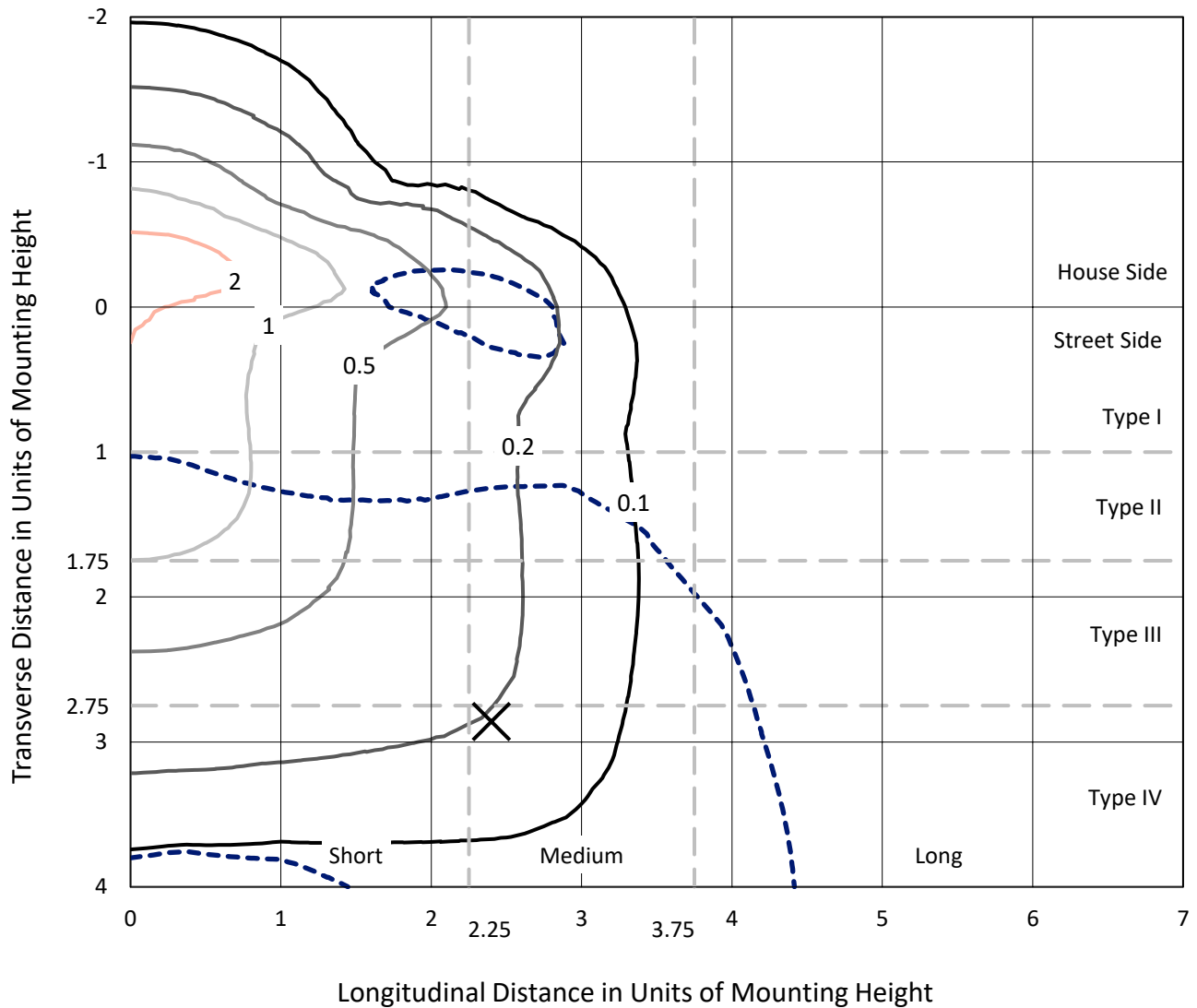
Lumens per Lamp: N/A  
Luminaire Lumens: 11163 lumens  
Efficiency: N/A  
Efficacy: 151.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

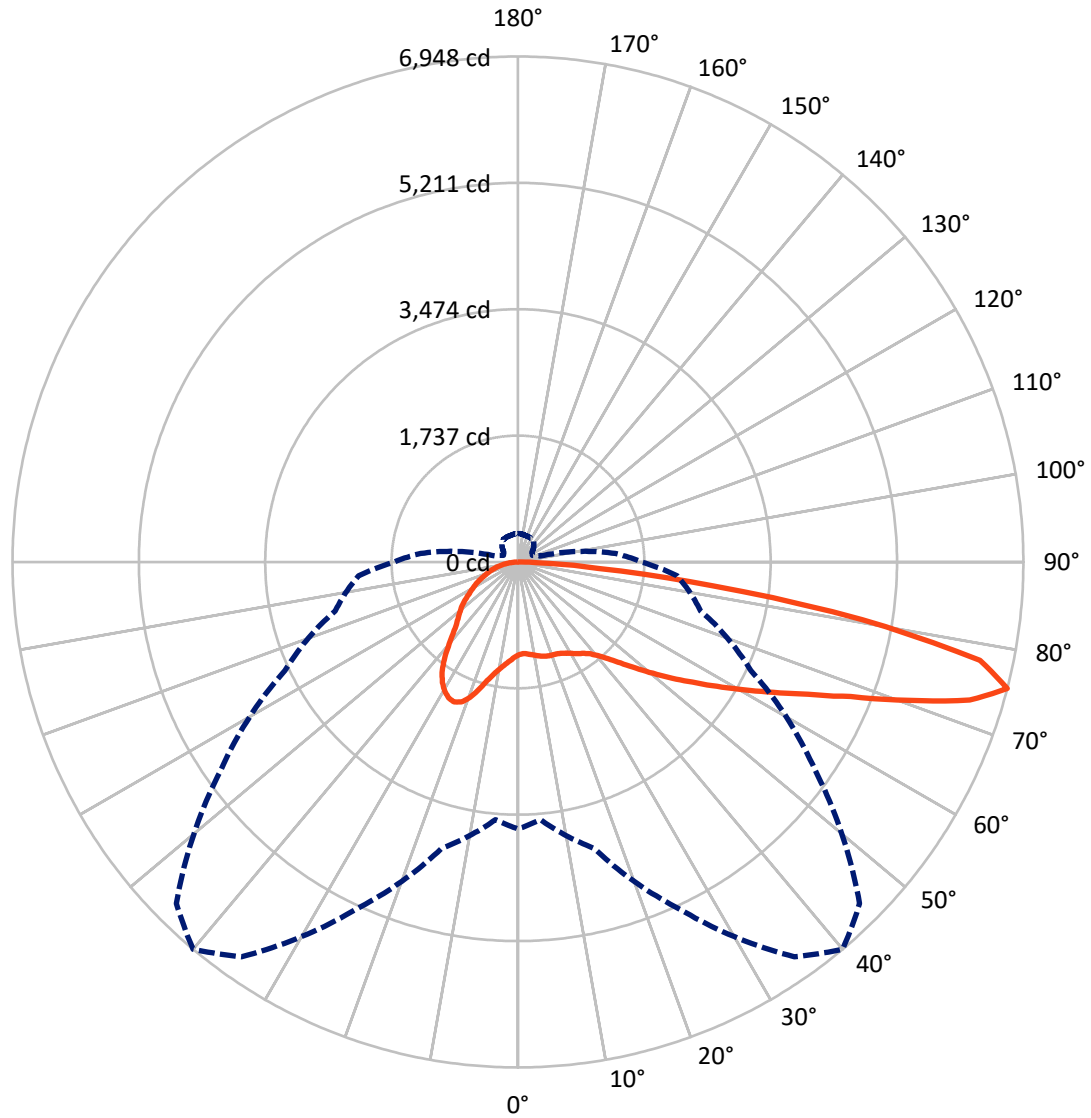
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type 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	3458.7	0.0	3458.7
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	7704.3	0.0	7704.3
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	11163.0	0.0	11163.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.4	1.1
10°-20°	427.8	3.8
20°-30°	781.1	7.0
30°-40°	1107.9	9.9
40°-50°	1496.0	13.4
50°-60°	2012.5	18.0
60°-70°	2554.3	22.9
70°-80°	2318.2	20.8
80°-90°	337.9	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°	11163.0	100.0
0°-180°	11163.0	100.0

**Coefficient of Utilization**



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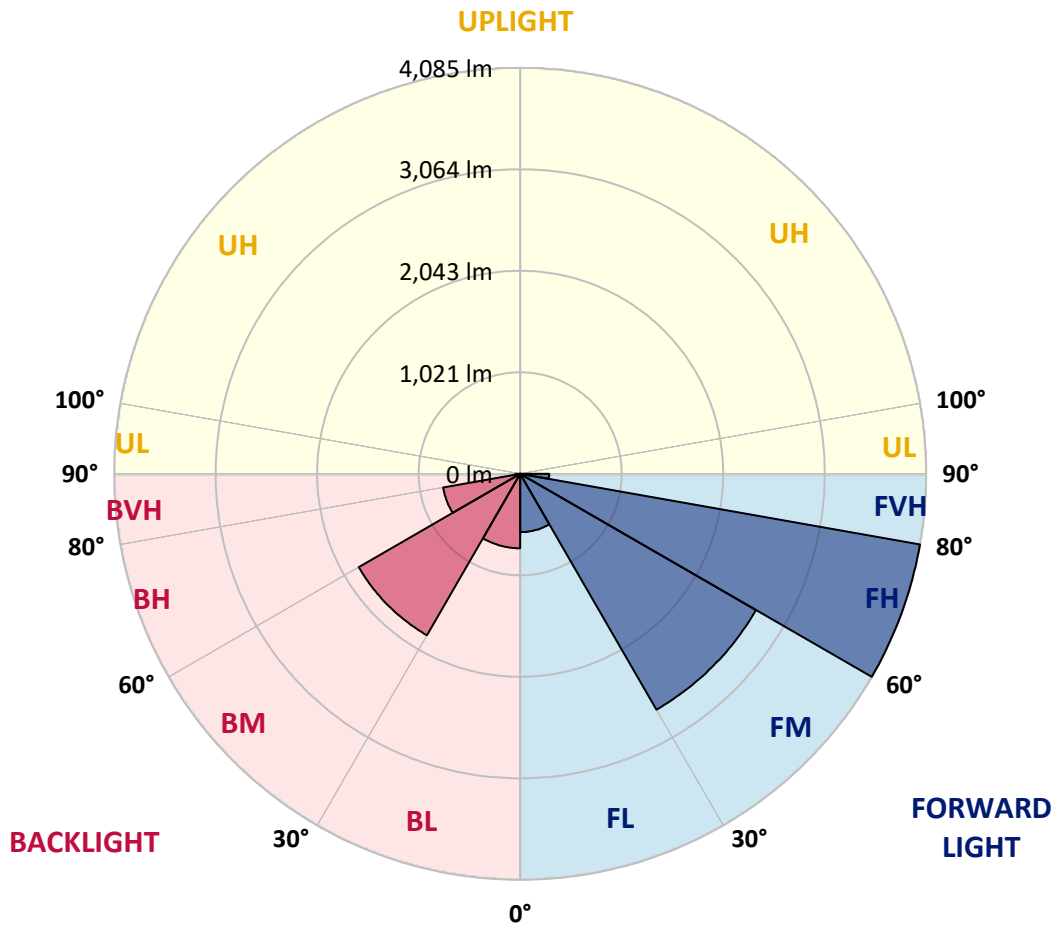
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	587.2	5.3			
FM (30°-60°)	2740.3	24.5			
FH (60°-80°)	4085.5	36.6			G2/5000
FVH (80°-90°)	291.4	2.6			G3/500
BL (0°-30°)	749.2	6.7	B2/1000		
BM (30°-60°)	1876.0	16.8	B2/2500		
BH (60°-80°)	786.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	46.5	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-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5
2.5°	1257.0	1264.1	1262.3	1259.9	1259.9	1260.5	1259.9	1264.1	1268.2	1272.4
5°	1270.0	1277.1	1273.5	1270.6	1268.2	1267.6	1265.8	1265.3	1267.6	1273.0
7.5°	1295.5	1302.6	1297.2	1291.9	1287.2	1284.8	1282.4	1278.9	1277.1	1280.1
10°	1323.9	1331.0	1324.5	1315.0	1307.3	1304.3	1302.0	1298.4	1296.0	1297.8
12.5°	1352.3	1359.4	1350.5	1337.5	1327.4	1325.6	1322.7	1321.5	1320.9	1320.3
15°	1378.9	1384.9	1373.6	1358.2	1347.6	1344.6	1341.6	1343.4	1346.4	1349.9
17.5°	1399.7	1405.6	1389.0	1368.9	1358.8	1357.6	1355.8	1361.8	1370.1	1378.9
20°	1418.6	1424.5	1403.2	1376.0	1364.1	1364.1	1364.7	1377.2	1389.0	1402.0
22.5°	1445.2	1450.0	1423.9	1386.6	1369.5	1370.6	1375.4	1387.8	1402.6	1420.4
25°	1484.9	1488.5	1456.5	1406.8	1387.2	1390.8	1394.9	1400.8	1415.0	1435.8
27.5°	1548.9	1551.8	1509.8	1442.3	1412.7	1418.6	1424.5	1420.4	1426.9	1444.7
30°	1638.9	1640.6	1587.3	1497.9	1455.9	1458.9	1460.0	1442.9	1430.4	1444.7
32.5°	1745.4	1744.8	1681.5	1565.4	1505.0	1502.1	1492.0	1458.3	1429.3	1441.7
35°	1910.6	1904.1	1822.4	1660.2	1560.7	1542.3	1518.7	1475.4	1435.2	1438.7
37.5°	2184.1	2164.0	2050.9	1815.3	1643.6	1596.8	1561.9	1503.3	1448.2	1437.5
40°	2492.6	2467.2	2342.8	2027.8	1767.9	1692.7	1636.5	1542.9	1469.5	1442.9
42.5°	2858.5	2822.4	2688.6	2278.3	1925.4	1816.5	1731.8	1593.3	1500.9	1460.0
45°	3307.9	3259.9	3070.5	2560.7	2123.8	1978.7	1865.6	1669.6	1548.9	1493.2
47.5°	3762.0	3773.9	3504.5	2884.0	2361.8	2178.8	2033.2	1784.5	1618.7	1546.5
50°	4244.6	4252.8	3936.1	3242.2	2631.8	2405.0	2221.4	1913.0	1715.8	1622.3
52.5°	4621.1	4622.3	4328.0	3617.0	2913.0	2653.7	2424.5	2059.8	1828.3	1722.9
55°	4856.8	4853.8	4602.8	3971.6	3236.3	2914.8	2649.5	2226.8	1965.7	1841.3
57.5°	5027.9	5019.0	4792.2	4276.5	3580.8	3223.2	2904.1	2416.2	2127.9	1982.3
60°	5093.0	5087.7	4920.7	4540.0	3943.2	3564.3	3197.8	2628.2	2312.0	2148.6
62.5°	5117.9	5127.9	5046.8	4795.2	4331.0	3942.0	3520.5	2881.6	2519.3	2336.9
65°	5205.5	5223.8	5207.3	5129.1	4769.1	4384.3	3948.5	3183.0	2745.4	2538.8
67.5°	5379.0	5397.3	5404.4	5528.8	5304.4	4935.5	4482.6	3558.3	3010.1	2748.4
70°	5374.8	5369.5	5495.0	5846.7	5974.6	5698.7	5202.5	4020.2	3325.7	2922.5
72.5°	4892.3	4849.6	5146.3	5843.1	6532.3	6495.6	6081.7	4615.8	3598.0	2943.8
75°	3670.2	3556.6	4080.5	5265.9	6625.3	6947.9	6640.7	4985.2	3533.5	2601.0
77.5°	1569.6	1455.3	2072.8	3898.2	5929.6	6495.0	6127.9	4349.3	2820.6	1720.0
80°	410.9	410.3	626.4	1767.3	4032.6	4796.4	4207.8	2808.8	1611.6	614.6
82.5°	169.9	165.8	230.3	687.4	1970.4	2691.6	2196.6	1252.8	582.0	166.4
85°	63.4	62.8	111.9	237.4	695.1	1110.1	803.4	320.3	145.1	81.1
87.5°	17.8	17.2	24.3	82.3	169.3	257.0	137.4	52.7	40.9	32.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1276.5	0°	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5
1278.9	2.5°	1280.6	1283.6	1288.9	1293.1	1298.4	1304.3	1312.6	1317.9	1323.3	1326.8
1281.8	5°	1286.0	1292.5	1306.1	1319.7	1335.7	1350.5	1367.7	1380.1	1390.2	1393.1
1292.5	7.5°	1297.8	1308.5	1331.6	1354.7	1380.1	1404.4	1429.3	1450.6	1467.7	1474.3
1311.4	10°	1318.5	1332.8	1365.3	1397.9	1431.6	1468.9	1500.9	1531.7	1556.0	1566.0
1333.9	12.5°	1344.6	1362.4	1405.0	1450.0	1496.8	1548.3	1589.7	1627.6	1657.8	1671.4
1365.3	15°	1378.3	1401.4	1455.9	1516.3	1585.0	1656.6	1709.3	1751.3	1785.1	1801.7
1397.9	17.5°	1415.0	1445.8	1514.5	1605.7	1704.0	1798.1	1859.7	1890.5	1925.4	1941.4
1428.1	20°	1450.6	1488.5	1586.7	1719.4	1850.2	1950.3	2000.0	2008.3	2010.7	2012.4
1456.5	22.5°	1487.3	1538.2	1677.3	1862.7	2003.0	2072.2	2079.4	2043.8	1994.1	1971.0
1484.3	25°	1527.5	1595.0	1795.7	2020.7	2134.4	2142.7	2088.2	2001.8	1907.7	1864.4
1506.8	27.5°	1566.6	1660.8	1937.8	2171.7	2229.1	2156.3	2039.1	1916.5	1802.9	1757.3
1522.8	30°	1605.7	1736.0	2094.7	2303.7	2272.4	2122.6	1961.5	1824.8	1710.5	1662.5
1537.0	32.5°	1645.4	1823.6	2275.3	2399.1	2264.7	2050.9	1865.0	1721.7	1621.1	1570.8
1549.4	35°	1690.4	1931.3	2446.4	2451.2	2213.2	1945.5	1737.7	1598.6	1511.0	1470.7
1564.3	37.5°	1749.0	2068.1	2597.4	2464.2	2123.2	1791.0	1579.6	1452.9	1380.7	1362.4
1586.2	40°	1821.8	2232.7	2712.9	2443.5	1989.9	1603.3	1406.8	1305.5	1264.7	1268.8
1615.8	42.5°	1916.5	2416.8	2794.0	2390.2	1804.6	1409.7	1255.2	1210.2	1229.7	1246.3
1660.2	45°	2039.7	2608.1	2844.3	2299.6	1595.0	1245.7	1165.8	1176.4	1191.2	1193.0
1731.8	47.5°	2197.2	2801.7	2877.5	2162.8	1381.3	1130.3	1108.9	1111.3	1108.4	1095.9
1839.0	50°	2393.7	2990.0	2907.1	1981.7	1199.5	1058.0	1029.6	1021.3	980.5	940.2
1981.7	52.5°	2617.5	3162.8	2919.5	1756.7	1058.0	997.6	951.5	899.4	823.0	810.5
2161.1	55°	2866.2	3322.7	2887.5	1480.2	939.0	920.1	850.2	787.5	779.2	768.5
2397.3	57.5°	3163.4	3495.0	2822.4	1171.7	817.1	829.5	761.4	768.5	753.7	737.1
2701.0	60°	3488.5	3673.2	2708.1	890.5	690.9	716.4	738.3	737.7	733.6	720.0
3021.3	62.5°	3781.0	3790.4	2483.1	682.1	580.2	628.8	688.6	688.0	684.4	676.7
3355.9	65°	3955.0	3772.7	2107.8	537.0	489.1	556.5	621.1	625.8	626.4	625.8
3607.5	67.5°	3924.2	3564.9	1592.7	427.5	413.9	483.1	554.2	560.7	565.4	566.6
3639.5	70°	3576.1	3108.4	1038.5	341.0	347.0	418.6	490.8	497.3	501.5	506.2
3158.1	72.5°	2787.5	2285.4	594.4	275.9	288.3	362.9	428.1	435.8	438.1	447.0
2197.8	75°	1698.7	1344.0	320.9	217.3	236.8	310.2	365.9	374.8	378.9	389.6
1079.3	77.5°	807.6	582.0	182.9	169.3	190.6	253.4	309.1	319.1	307.9	313.8
297.8	80°	272.9	216.1	115.5	129.1	145.6	197.8	247.5	257.6	233.9	232.7
98.9	82.5°	95.3	87.6	73.4	85.9	94.1	141.5	187.1	200.1	174.1	173.5
44.4	85°	37.3	35.5	40.9	46.8	56.2	87.0	123.2	129.7	107.2	86.4
13.0	87.5°	7.7	8.3	10.1	10.7	17.2	30.2	44.4	54.5	43.2	36.7
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>
1276.5
1324.5
1394.3
1474.8
1566.6
1671.4
1800.5
1940.8
2017.2
1977.5
1870.9
1762.6
1667.9
1577.3
1479.6
1375.4
1283.0
1261.7
1204.9
1105.4
945.5
814.7
770.3
734.2
715.2
673.8
625.8
567.8
508.6
450.6
390.8
309.1
230.3
165.2
85.3
33.7
0.0

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