

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: P939652

Luminaire Tested: **GALN-SB2B-835-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939652  
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-835-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

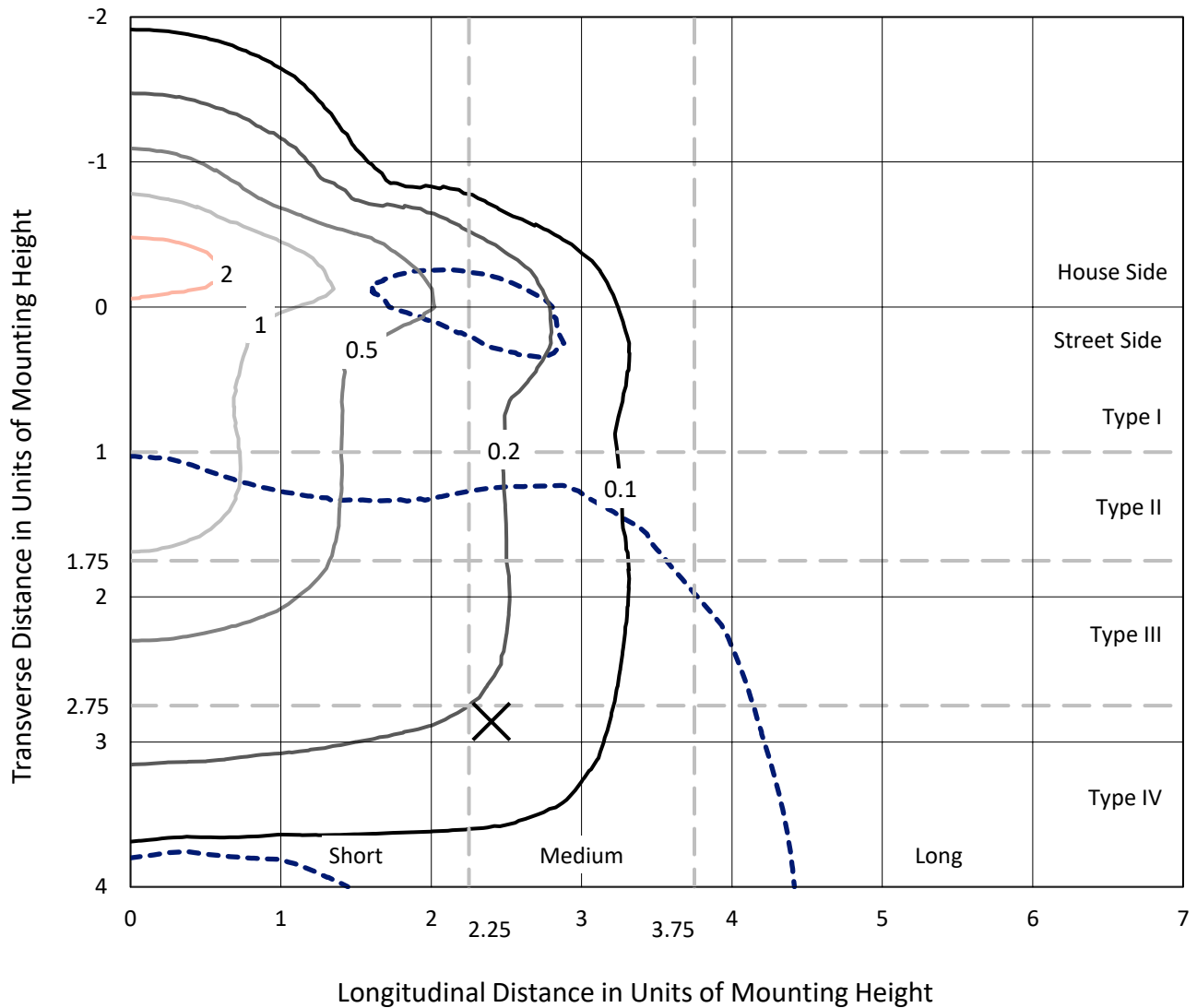
Lumens per Lamp: N/A  
Luminaire Lumens: 10354 lumens  
Efficiency: N/A  
Efficacy: 140.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

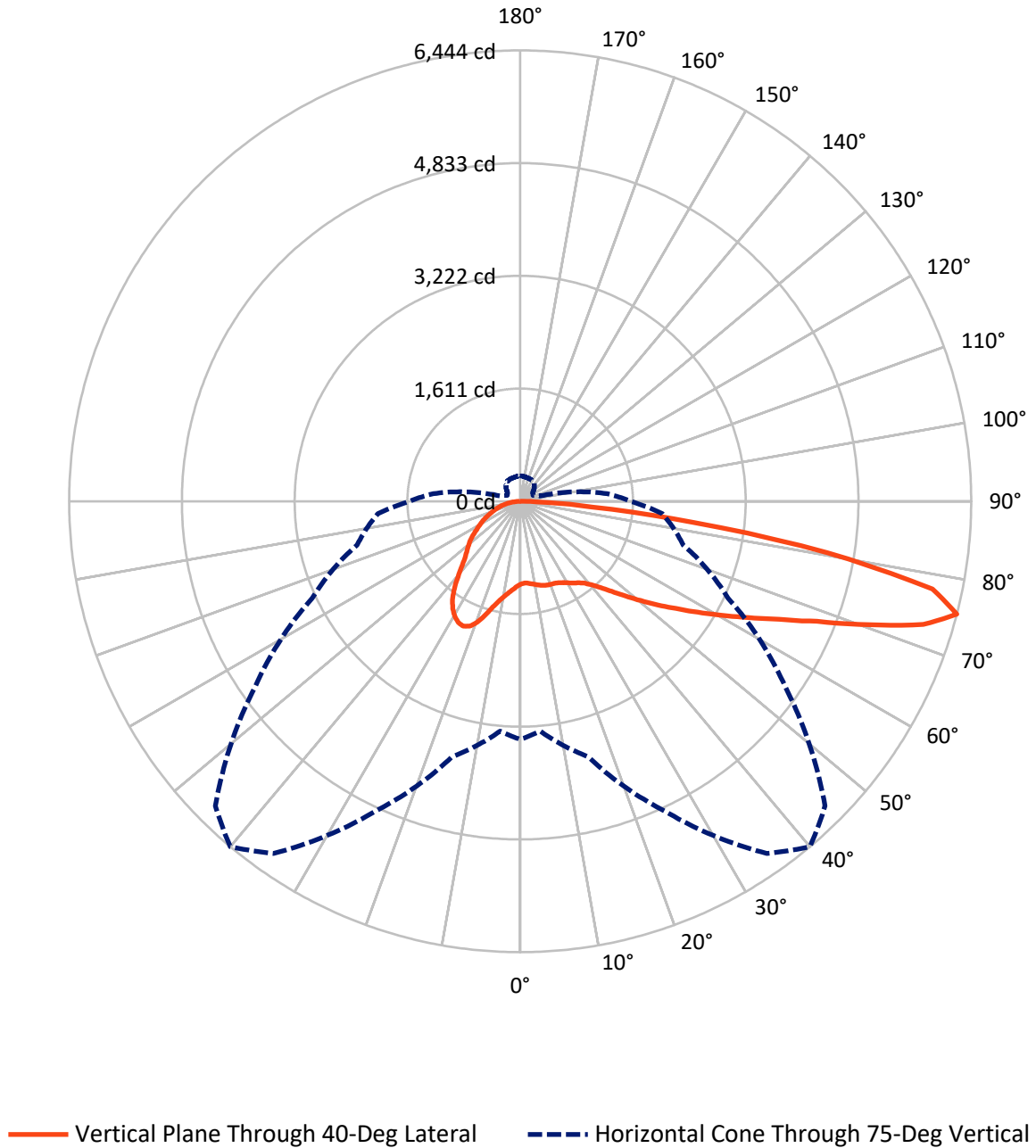
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3208.0	0.0	3208.0
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	7146.0	0.0	7146.0
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	10354.0	0.0	10354.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.2	1.1
10°-20°	396.8	3.8
20°-30°	724.5	7.0
30°-40°	1027.6	9.9
40°-50°	1387.5	13.4
50°-60°	1866.6	18.0
60°-70°	2369.2	22.9
70°-80°	2150.2	20.8
80°-90°	313.4	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°	10354.0	100.0
0°-180°	10354.0	100.0

**Coefficient of Utilization**



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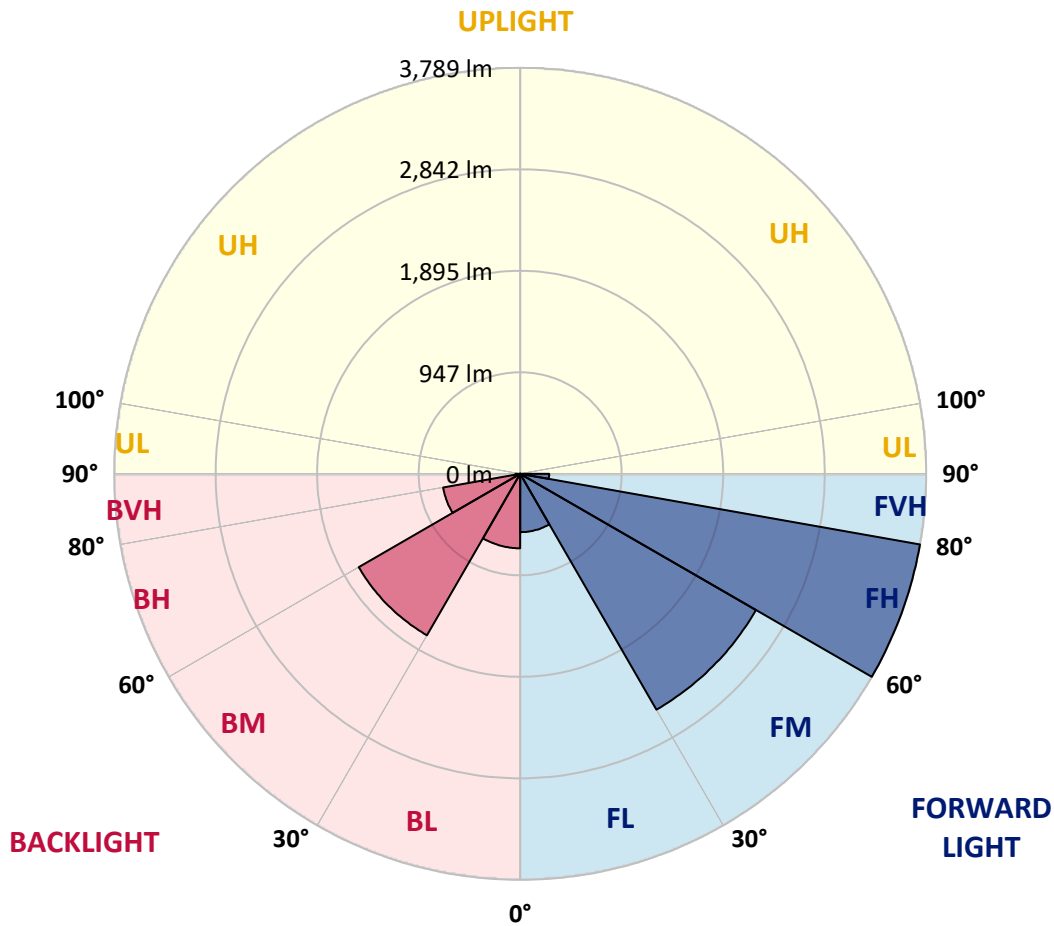
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	544.6	5.3			
FM (30°-60°)	2541.7	24.5			
FH (60°-80°)	3789.4	36.6			G2/5000
FVH (80°-90°)	270.3	2.6			G3/500
BL (0°-30°)	694.9	6.7	B2/1000		
BM (30°-60°)	1740.1	16.8	B2/2500		
BH (60°-80°)	729.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	43.1	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°	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0
2.5°	1165.9	1172.5	1170.8	1168.6	1168.6	1169.2	1168.6	1172.5	1176.3	1180.1
5°	1178.0	1184.5	1181.2	1178.5	1176.3	1175.8	1174.1	1173.6	1175.8	1180.7
7.5°	1201.6	1208.2	1203.2	1198.3	1193.9	1191.7	1189.5	1186.2	1184.5	1187.3
10°	1227.9	1234.5	1228.5	1219.7	1212.6	1209.8	1207.6	1204.3	1202.1	1203.8
12.5°	1254.3	1260.9	1252.6	1240.6	1231.2	1229.6	1226.8	1225.7	1225.2	1224.6
15°	1279.0	1284.5	1274.1	1259.8	1249.9	1247.1	1244.4	1246.0	1248.8	1252.1
17.5°	1298.2	1303.7	1288.3	1269.7	1260.3	1259.2	1257.6	1263.1	1270.8	1279.0
20°	1315.8	1321.3	1301.5	1276.3	1265.3	1265.3	1265.8	1277.4	1288.3	1300.4
22.5°	1340.5	1344.9	1320.7	1286.1	1270.2	1271.3	1275.7	1287.2	1301.0	1317.4
25°	1377.3	1380.6	1350.9	1304.8	1286.7	1290.0	1293.8	1299.3	1312.5	1331.7
27.5°	1436.6	1439.4	1400.4	1337.8	1310.3	1315.8	1321.3	1317.4	1323.5	1340.0
30°	1520.1	1521.7	1472.3	1389.4	1350.4	1353.1	1354.2	1338.3	1326.8	1340.0
32.5°	1618.9	1618.4	1559.6	1452.0	1396.0	1393.2	1383.9	1352.6	1325.7	1337.2
35°	1772.1	1766.1	1690.3	1539.9	1447.6	1430.6	1408.6	1368.5	1331.2	1334.5
37.5°	2025.9	2007.2	1902.3	1683.7	1524.5	1481.1	1448.7	1394.3	1343.3	1333.4
40°	2312.0	2288.4	2173.0	1880.9	1639.8	1570.1	1517.9	1431.1	1363.0	1338.3
42.5°	2651.4	2617.9	2493.7	2113.2	1785.9	1684.8	1606.3	1477.8	1392.1	1354.2
45°	3068.2	3023.7	2848.0	2375.1	1969.8	1835.3	1730.4	1548.6	1436.6	1385.0
47.5°	3489.4	3500.4	3250.5	2675.0	2190.6	2020.9	1885.8	1655.2	1501.4	1434.4
50°	3936.9	3944.6	3650.8	3007.2	2441.0	2230.7	2060.5	1774.3	1591.5	1504.7
52.5°	4286.2	4287.3	4014.4	3354.8	2701.9	2461.3	2248.8	1910.5	1695.8	1598.1
55°	4504.8	4502.0	4269.2	3683.8	3001.7	2703.5	2457.5	2065.4	1823.2	1707.9
57.5°	4663.5	4655.2	4444.9	3966.6	3321.3	2989.6	2693.6	2241.1	1973.7	1838.6
60°	4723.9	4719.0	4564.1	4211.0	3657.4	3306.0	2966.0	2437.7	2144.5	1992.9
62.5°	4747.0	4756.3	4681.1	4447.7	4017.1	3656.3	3265.3	2672.8	2336.7	2167.5
65°	4828.2	4845.3	4829.9	4757.4	4423.5	4066.5	3662.4	2952.3	2546.5	2354.8
67.5°	4989.1	5006.2	5012.8	5128.1	4919.9	4577.8	4157.7	3300.5	2791.9	2549.2
70°	4985.3	4980.4	5096.8	5423.0	5541.6	5285.7	4825.5	3728.8	3084.6	2710.7
72.5°	4537.7	4498.2	4773.3	5419.7	6058.9	6024.9	5641.0	4281.3	3337.3	2730.4
75°	3404.3	3298.8	3784.8	4884.2	6145.1	6444.4	6159.4	4623.9	3277.4	2412.5
77.5°	1455.8	1349.8	1922.6	3615.7	5499.9	6024.3	5683.8	4034.1	2616.2	1595.3
80°	381.1	380.6	581.0	1639.2	3740.3	4448.8	3902.9	2605.2	1494.8	570.0
82.5°	157.6	153.8	213.6	637.6	1827.6	2496.5	2037.4	1162.0	539.8	154.3
85°	58.8	58.2	103.8	220.2	644.7	1029.7	745.2	297.1	134.5	75.2
87.5°	16.5	15.9	22.5	76.3	157.1	238.3	127.4	48.9	37.9	29.7
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°
1184.0	0°	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0
1186.2	2.5°	1187.8	1190.6	1195.5	1199.4	1204.3	1209.8	1217.5	1222.4	1227.4	1230.7
1188.9	5°	1192.8	1198.8	1211.5	1224.1	1238.9	1252.6	1268.6	1280.1	1289.4	1292.2
1198.8	7.5°	1203.8	1213.6	1235.1	1256.5	1280.1	1302.6	1325.7	1345.4	1361.4	1367.4
1216.4	10°	1223.0	1236.2	1266.4	1296.6	1327.9	1362.5	1392.1	1420.7	1443.2	1452.5
1237.3	12.5°	1247.1	1263.6	1303.2	1344.9	1388.3	1436.1	1474.5	1509.6	1537.7	1550.3
1266.4	15°	1278.4	1299.9	1350.4	1406.4	1470.1	1536.6	1585.4	1624.4	1655.7	1671.1
1296.6	17.5°	1312.5	1341.1	1404.8	1489.3	1580.5	1667.8	1724.9	1753.5	1785.9	1800.7
1324.6	20°	1345.4	1380.6	1471.8	1594.8	1716.1	1808.9	1855.1	1862.8	1865.0	1866.6
1350.9	22.5°	1379.5	1426.7	1555.8	1727.7	1857.8	1922.1	1928.7	1895.7	1849.6	1828.2
1376.7	25°	1416.8	1479.4	1665.6	1874.3	1979.7	1987.4	1936.9	1856.7	1769.4	1729.3
1397.6	27.5°	1453.1	1540.4	1797.4	2014.3	2067.6	2000.0	1891.3	1777.6	1672.2	1629.9
1412.4	30°	1489.3	1610.1	1942.9	2136.8	2107.7	1968.7	1819.4	1692.5	1586.5	1542.0
1425.6	32.5°	1526.1	1691.4	2110.4	2225.2	2100.5	1902.3	1729.9	1597.0	1503.6	1456.9
1437.2	35°	1567.9	1791.4	2269.1	2273.5	2052.8	1804.5	1611.8	1482.7	1401.5	1364.1
1450.9	37.5°	1622.2	1918.2	2409.2	2285.6	1969.3	1661.2	1465.2	1347.6	1280.6	1263.6
1471.2	40°	1689.8	2070.9	2516.3	2266.4	1845.7	1487.1	1304.8	1210.9	1173.0	1176.9
1498.7	42.5°	1777.6	2241.7	2591.5	2217.0	1673.8	1307.6	1164.2	1122.5	1140.6	1156.0
1539.9	45°	1891.9	2419.1	2638.2	2132.9	1479.4	1155.4	1081.3	1091.2	1104.9	1106.6
1606.3	47.5°	2037.9	2598.6	2668.9	2006.1	1281.2	1048.4	1028.6	1030.8	1028.0	1016.5
1705.7	50°	2220.3	2773.3	2696.4	1838.0	1112.6	981.4	955.0	947.3	909.4	872.1
1838.0	52.5°	2427.8	2933.6	2707.9	1629.4	981.4	925.3	882.5	834.2	763.3	751.8
2004.4	55°	2658.5	3081.9	2678.3	1372.9	871.0	853.4	788.6	730.4	722.7	712.8
2223.6	57.5°	2934.2	3241.7	2617.9	1086.8	757.8	769.4	706.2	712.8	699.1	683.7
2505.3	60°	3235.7	3407.0	2511.9	825.9	640.9	664.5	684.8	684.3	680.4	667.8
2802.4	62.5°	3506.9	3515.7	2303.2	632.6	538.2	583.2	638.7	638.1	634.8	627.7
3112.7	65°	3668.4	3499.3	1955.0	498.1	453.6	516.2	576.1	580.5	581.0	580.5
3346.0	67.5°	3639.8	3306.5	1477.2	396.5	383.9	448.1	514.0	520.1	524.4	525.5
3375.7	70°	3316.9	2883.1	963.2	316.3	321.8	388.3	455.3	461.3	465.1	469.5
2929.2	72.5°	2585.5	2119.8	551.4	255.9	267.4	336.6	397.0	404.2	406.4	414.6
2038.5	75°	1575.5	1246.6	297.6	201.5	219.7	287.8	339.4	347.6	351.5	361.3
1001.1	77.5°	749.1	539.8	169.7	157.1	176.8	235.0	286.7	296.0	285.6	291.1
276.2	80°	253.2	200.4	107.1	119.7	135.1	183.4	229.5	238.9	216.9	215.8
91.7	82.5°	88.4	81.3	68.1	79.6	87.3	131.2	173.5	185.6	161.5	160.9
41.2	85°	34.6	32.9	37.9	43.4	52.2	80.7	114.2	120.3	99.4	80.2
12.1	87.5°	7.1	7.7	9.3	9.9	15.9	28.0	41.2	50.5	40.1	34.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1184.0
1228.5
1293.3
1368.0
1453.1
1550.3
1670.0
1800.2
1871.0
1834.2
1735.4
1634.9
1547.0
1463.0
1372.4
1275.7
1190.0
1170.3
1117.5
1025.3
877.0
755.6
714.5
681.0
663.4
624.9
580.5
526.6
471.7
417.9
362.4
286.7
213.6
153.2
79.1
31.3
0.0

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