

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: P939892

Luminaire Tested: **GALN-SB2C-950-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939892  
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-SB2C-950-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

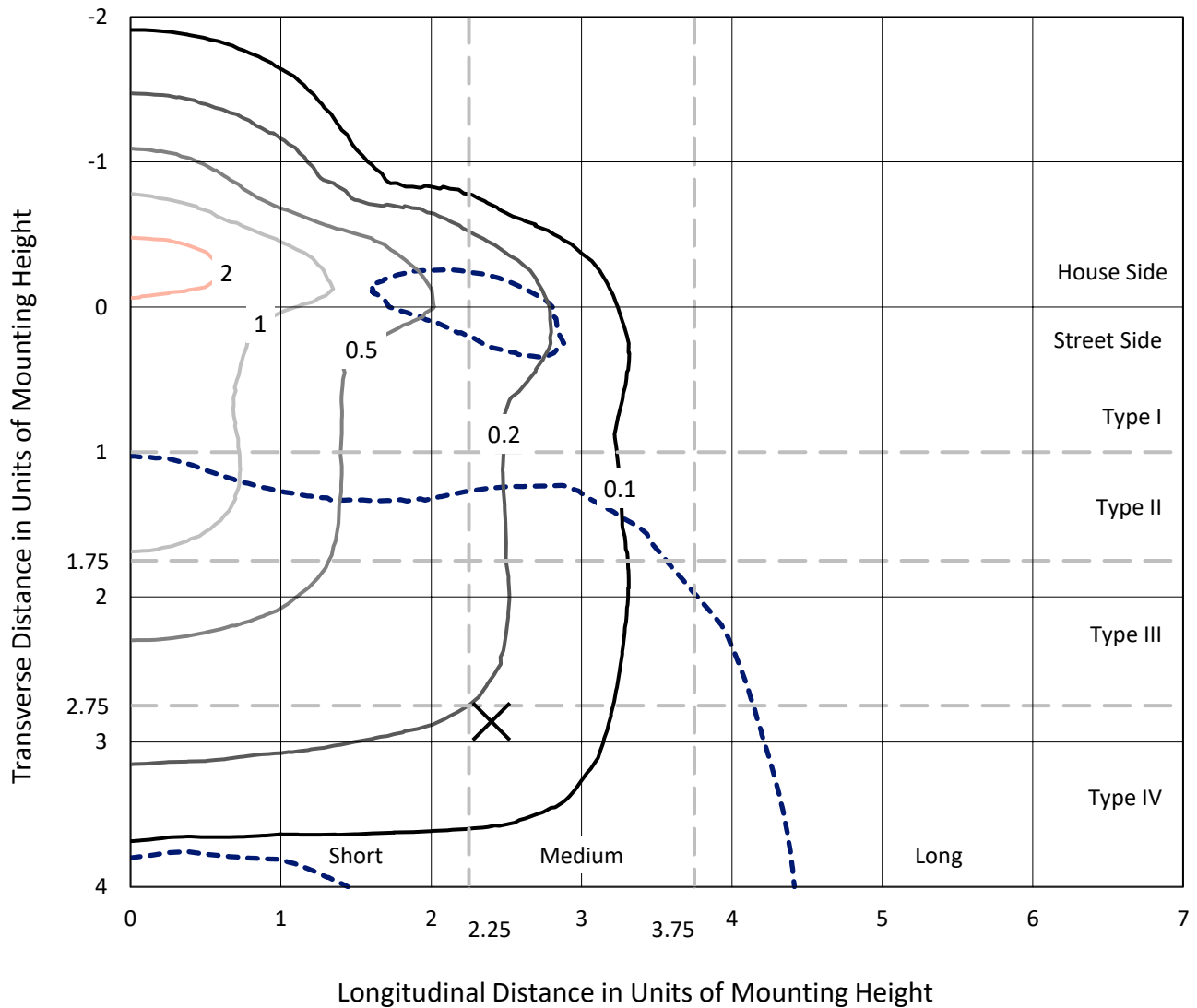
Lumens per Lamp: N/A  
Luminaire Lumens: 10328 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

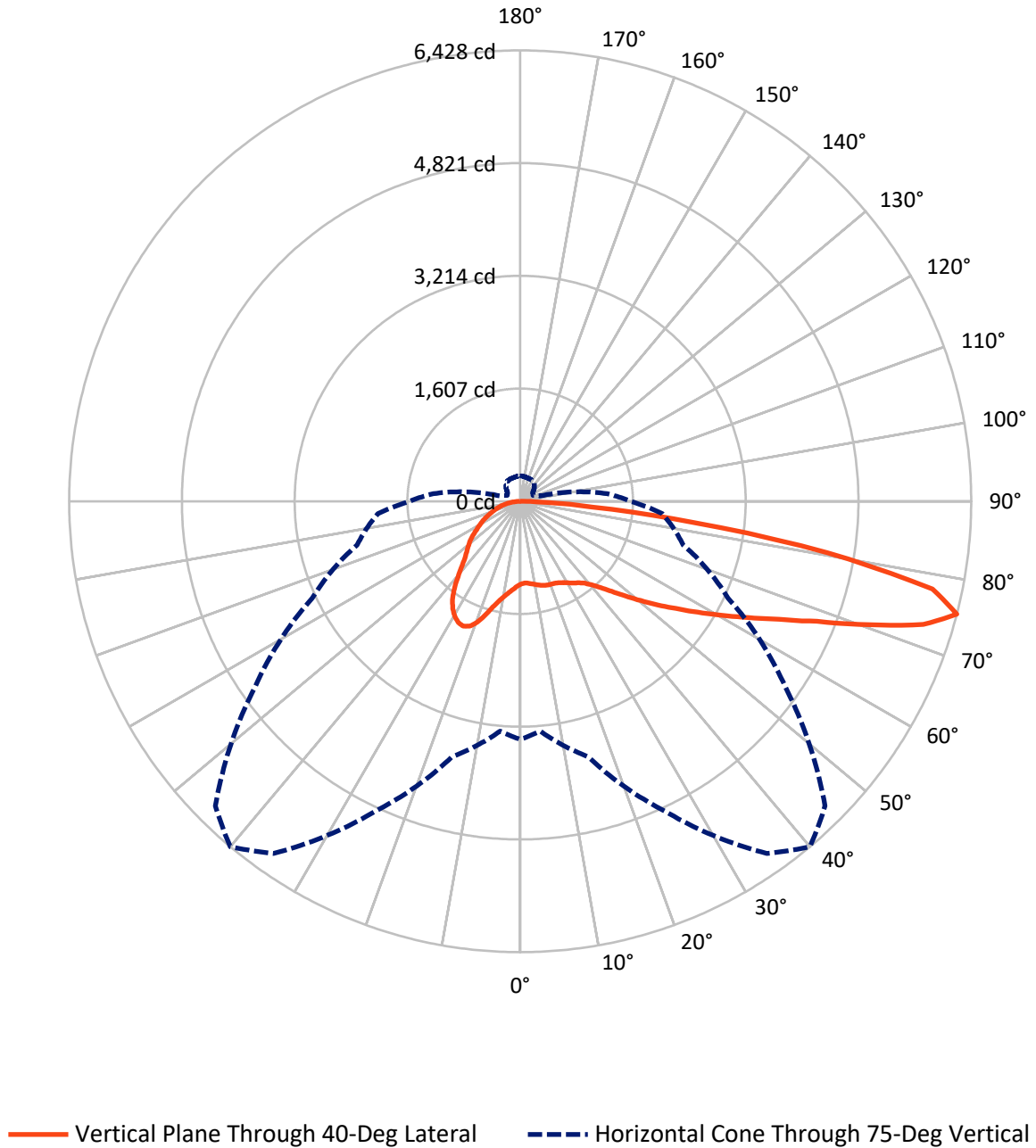
✕ Max cd  
 - - - 1/2 Max cd



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	3200.0	0.0	3200.0
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	7128.0	0.0	7128.0
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	10328.0	0.0	10328.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.9	1.1
10°-20°	395.8	3.8
20°-30°	722.7	7.0
30°-40°	1025.0	9.9
40°-50°	1384.1	13.4
50°-60°	1861.9	18.0
60°-70°	2363.2	22.9
70°-80°	2144.8	20.8
80°-90°	312.6	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°	10328.0	100.0
0°-180°	10328.0	100.0



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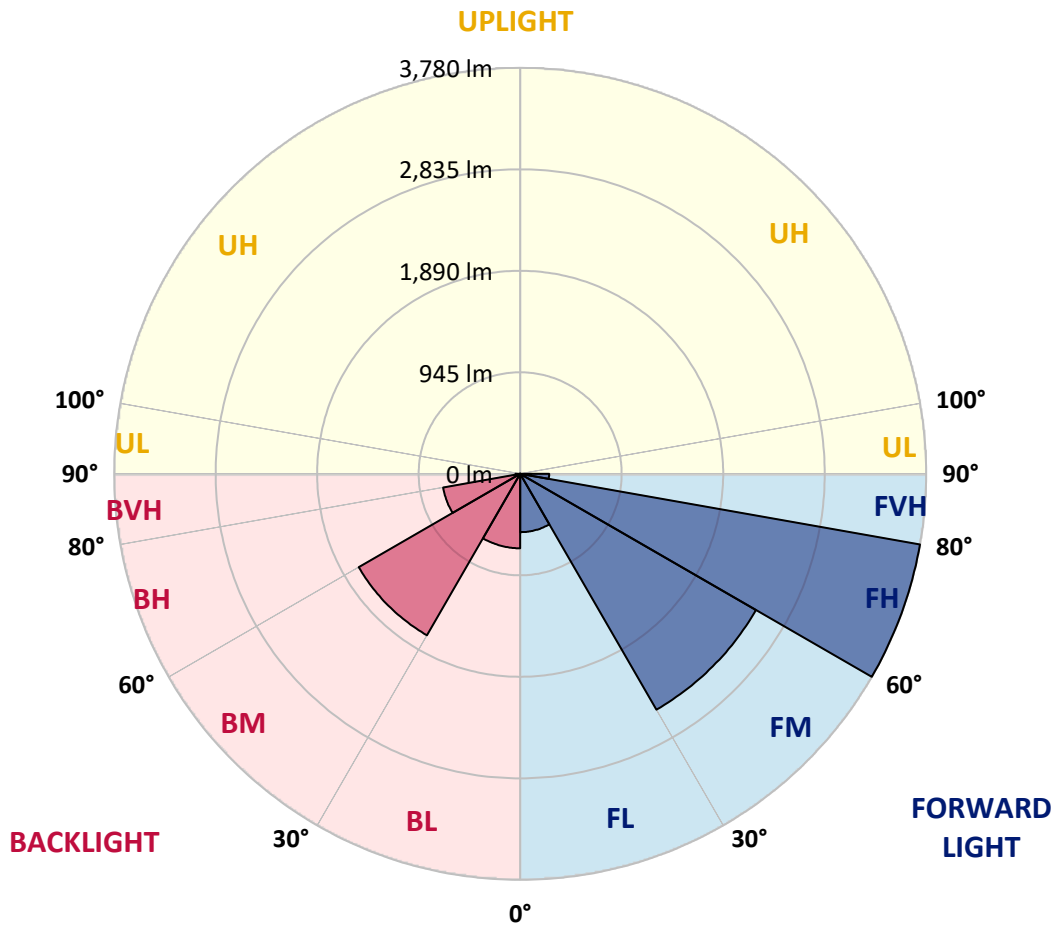
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	543.3	5.3			
FM (30°-60°)	2535.3	24.5			
FH (60°-80°)	3779.9	36.6			G2/5000
FVH (80°-90°)	269.6	2.6			G3/500
BL (0°-30°)	693.1	6.7	B2/1000		
BM (30°-60°)	1735.7	16.8	B2/2500		
BH (60°-80°)	728.1	7.0	B2/1000		G2/1000
BVH (80°-90°)	43.0	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°	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0
2.5°	1162.9	1169.5	1167.9	1165.7	1165.7	1166.2	1165.7	1169.5	1173.4	1177.2
5°	1175.0	1181.6	1178.3	1175.5	1173.4	1172.8	1171.2	1170.6	1172.8	1177.7
7.5°	1198.5	1205.1	1200.2	1195.3	1190.9	1188.7	1186.5	1183.2	1181.6	1184.3
10°	1224.8	1231.4	1225.4	1216.6	1209.5	1206.8	1204.6	1201.3	1199.1	1200.7
12.5°	1251.1	1257.7	1249.5	1237.4	1228.1	1226.5	1223.7	1222.7	1222.1	1221.6
15°	1275.8	1281.3	1270.9	1256.6	1246.8	1244.0	1241.3	1242.9	1245.7	1248.9
17.5°	1295.0	1300.4	1285.1	1266.5	1257.2	1256.1	1254.4	1259.9	1267.6	1275.8
20°	1312.5	1318.0	1298.2	1273.0	1262.1	1262.1	1262.6	1274.1	1285.1	1297.2
22.5°	1337.1	1341.5	1317.4	1282.9	1267.0	1268.1	1272.5	1284.0	1297.7	1314.1
25°	1373.8	1377.1	1347.5	1301.5	1283.5	1286.7	1290.6	1296.1	1309.2	1328.4
27.5°	1433.0	1435.7	1396.8	1334.4	1307.0	1312.5	1318.0	1314.1	1320.2	1336.6
30°	1516.3	1517.9	1468.6	1385.9	1347.0	1349.7	1350.8	1334.9	1323.4	1336.6
32.5°	1614.9	1614.3	1555.7	1448.3	1392.5	1389.7	1380.4	1349.2	1322.3	1333.9
35°	1767.7	1761.7	1686.1	1536.0	1444.0	1427.0	1405.1	1365.1	1327.8	1331.1
37.5°	2020.8	2002.1	1897.5	1679.5	1520.6	1477.4	1445.1	1390.8	1339.9	1330.0
40°	2306.2	2282.6	2167.6	1876.2	1635.7	1566.1	1514.1	1427.5	1359.6	1334.9
42.5°	2644.7	2611.3	2487.5	2107.9	1781.4	1680.6	1602.3	1474.1	1388.6	1350.8
45°	3060.5	3016.1	2840.8	2369.2	1964.9	1830.7	1726.1	1544.7	1433.0	1381.5
47.5°	3480.6	3491.6	3242.3	2668.3	2185.1	2015.8	1881.1	1651.0	1497.6	1430.8
50°	3927.1	3934.7	3641.7	2999.7	2434.9	2225.1	2055.3	1769.9	1587.5	1500.9
52.5°	4275.4	4276.5	4004.3	3346.4	2695.1	2455.2	2243.2	1905.7	1691.6	1594.0
55°	4493.5	4490.7	4258.5	3674.5	2994.2	2696.7	2451.3	2060.2	1818.6	1703.6
57.5°	4651.8	4643.6	4433.8	3956.6	3313.0	2982.1	2686.9	2235.5	1968.7	1834.0
60°	4712.0	4707.1	4552.6	4200.4	3648.2	3297.7	2958.6	2431.6	2139.1	1987.9
62.5°	4735.0	4744.4	4669.3	4436.5	4007.0	3647.1	3257.1	2666.1	2330.8	2162.1
65°	4816.1	4833.1	4817.8	4745.4	4412.4	4056.3	3653.2	2944.9	2540.1	2348.9
67.5°	4976.6	4993.6	5000.2	5115.2	4907.6	4566.3	4147.3	3292.2	2784.9	2542.8
70°	4972.8	4967.8	5084.0	5409.4	5527.7	5272.4	4813.4	3719.4	3076.9	2703.9
72.5°	4526.3	4486.9	4761.3	5406.1	6043.7	6009.7	5626.8	4270.5	3328.9	2723.6
75°	3395.7	3290.5	3775.3	4872.0	6129.7	6428.2	6143.9	4612.3	3269.2	2406.4
77.5°	1452.2	1346.5	1917.8	3606.6	5486.0	6009.2	5669.6	4024.0	2609.6	1591.3
80°	380.2	379.6	579.6	1635.1	3731.0	4437.6	3893.1	2598.7	1491.1	568.6
82.5°	157.2	153.4	213.1	636.0	1823.0	2490.2	2032.3	1159.1	538.5	153.9
85°	58.6	58.1	103.5	219.7	643.1	1027.1	743.3	296.4	134.2	75.0
87.5°	16.4	15.9	22.5	76.1	156.7	237.7	127.1	48.8	37.8	29.6
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°
1181.0	0°	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0
1183.2	2.5°	1184.9	1187.6	1192.5	1196.4	1201.3	1206.8	1214.4	1219.4	1224.3	1227.6
1186.0	5°	1189.8	1195.8	1208.4	1221.0	1235.8	1249.5	1265.4	1276.9	1286.2	1288.9
1195.8	7.5°	1200.7	1210.6	1232.0	1253.3	1276.9	1299.3	1322.3	1342.1	1358.0	1364.0
1213.3	10°	1219.9	1233.1	1263.2	1293.3	1324.5	1359.1	1388.6	1417.1	1439.6	1448.9
1234.2	12.5°	1244.0	1260.4	1299.9	1341.5	1384.8	1432.5	1470.8	1505.9	1533.8	1546.4
1263.2	15°	1275.2	1296.6	1347.0	1402.9	1466.4	1532.7	1581.5	1620.3	1651.6	1666.9
1293.3	17.5°	1309.2	1337.7	1401.2	1485.6	1576.5	1663.6	1720.6	1749.1	1781.4	1796.2
1321.3	20°	1342.1	1377.1	1468.1	1590.8	1711.8	1804.4	1850.4	1858.1	1860.3	1861.9
1347.5	22.5°	1376.0	1423.1	1551.9	1723.3	1853.2	1917.2	1923.8	1890.9	1844.9	1823.6
1373.3	25°	1413.3	1475.7	1661.4	1869.6	1974.8	1982.4	1932.0	1852.1	1765.0	1725.0
1394.1	27.5°	1449.4	1536.5	1792.9	2009.3	2062.4	1995.0	1886.6	1773.2	1668.0	1625.8
1408.9	30°	1485.6	1606.1	1938.1	2131.4	2102.4	1963.8	1814.8	1688.3	1582.5	1538.2
1422.0	32.5°	1522.3	1687.2	2105.1	2219.6	2095.3	1897.5	1725.5	1593.0	1499.8	1453.3
1433.5	35°	1563.9	1786.9	2263.4	2267.8	2047.6	1800.0	1607.7	1479.0	1397.9	1360.7
1447.2	37.5°	1618.2	1913.4	2403.1	2279.9	1964.4	1657.0	1461.5	1344.3	1277.4	1260.4
1467.5	40°	1685.5	2065.7	2509.9	2260.7	1841.1	1483.4	1301.5	1207.9	1170.1	1173.9
1494.9	42.5°	1773.2	2236.1	2585.0	2211.4	1669.6	1304.3	1161.3	1119.7	1137.7	1153.1
1536.0	45°	1887.1	2413.0	2631.6	2127.6	1475.7	1152.5	1078.6	1088.4	1102.1	1103.8
1602.3	47.5°	2032.8	2592.1	2662.2	2001.1	1278.0	1045.7	1026.0	1028.2	1025.5	1013.9
1701.4	50°	2214.7	2766.3	2689.6	1833.4	1109.8	978.9	952.6	944.9	907.1	869.9
1833.4	52.5°	2421.7	2926.3	2701.1	1625.3	978.9	923.0	880.3	832.1	761.4	749.9
1999.4	55°	2651.8	3074.2	2671.5	1369.5	868.8	851.3	786.6	728.6	720.9	711.0
2218.0	57.5°	2926.8	3233.6	2611.3	1084.1	755.9	767.4	704.4	711.0	697.3	682.0
2499.0	60°	3227.5	3398.4	2505.6	823.9	639.3	662.8	683.1	682.5	678.7	666.1
2795.3	62.5°	3498.1	3506.9	2297.4	631.0	536.8	581.7	637.1	636.5	633.2	626.1
3104.8	65°	3659.2	3490.5	1950.1	496.8	452.5	514.9	574.6	579.0	579.6	579.0
3337.6	67.5°	3630.7	3298.2	1473.5	395.5	382.9	447.0	512.7	518.8	523.1	524.2
3367.2	70°	3308.6	2875.9	960.8	315.5	321.0	387.3	454.1	460.1	464.0	468.4
2921.9	72.5°	2579.0	2114.4	550.0	255.3	266.8	335.8	396.0	403.2	405.4	413.6
2033.4	75°	1571.6	1243.5	296.9	201.0	219.1	287.0	338.5	346.7	350.6	360.4
998.6	77.5°	747.2	538.5	169.3	156.7	176.4	234.5	285.9	295.3	284.8	290.3
275.5	80°	252.5	199.9	106.8	119.4	134.8	183.0	229.0	238.3	216.4	215.3
91.5	82.5°	88.2	81.1	67.9	79.4	87.1	130.9	173.1	185.2	161.0	160.5
41.1	85°	34.5	32.9	37.8	43.3	52.0	80.5	113.9	120.0	99.1	80.0
12.1	87.5°	7.1	7.7	9.3	9.9	15.9	27.9	41.1	50.4	40.0	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

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<u>180°</u>
1181.0
1225.4
1290.0
1364.5
1449.4
1546.4
1665.8
1795.6
1866.3
1829.6
1731.0
1630.8
1543.1
1459.3
1368.9
1272.5
1187.0
1167.3
1114.7
1022.7
874.8
753.7
712.7
679.3
661.7
623.4
579.0
525.3
470.5
416.9
361.5
285.9
213.1
152.8
78.9
31.2
0.0

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