

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: P939602

Luminaire Tested: **GALN-SB2B-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939602
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-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 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: 11810 lumens
Efficiency: N/A
Efficacy: 159.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

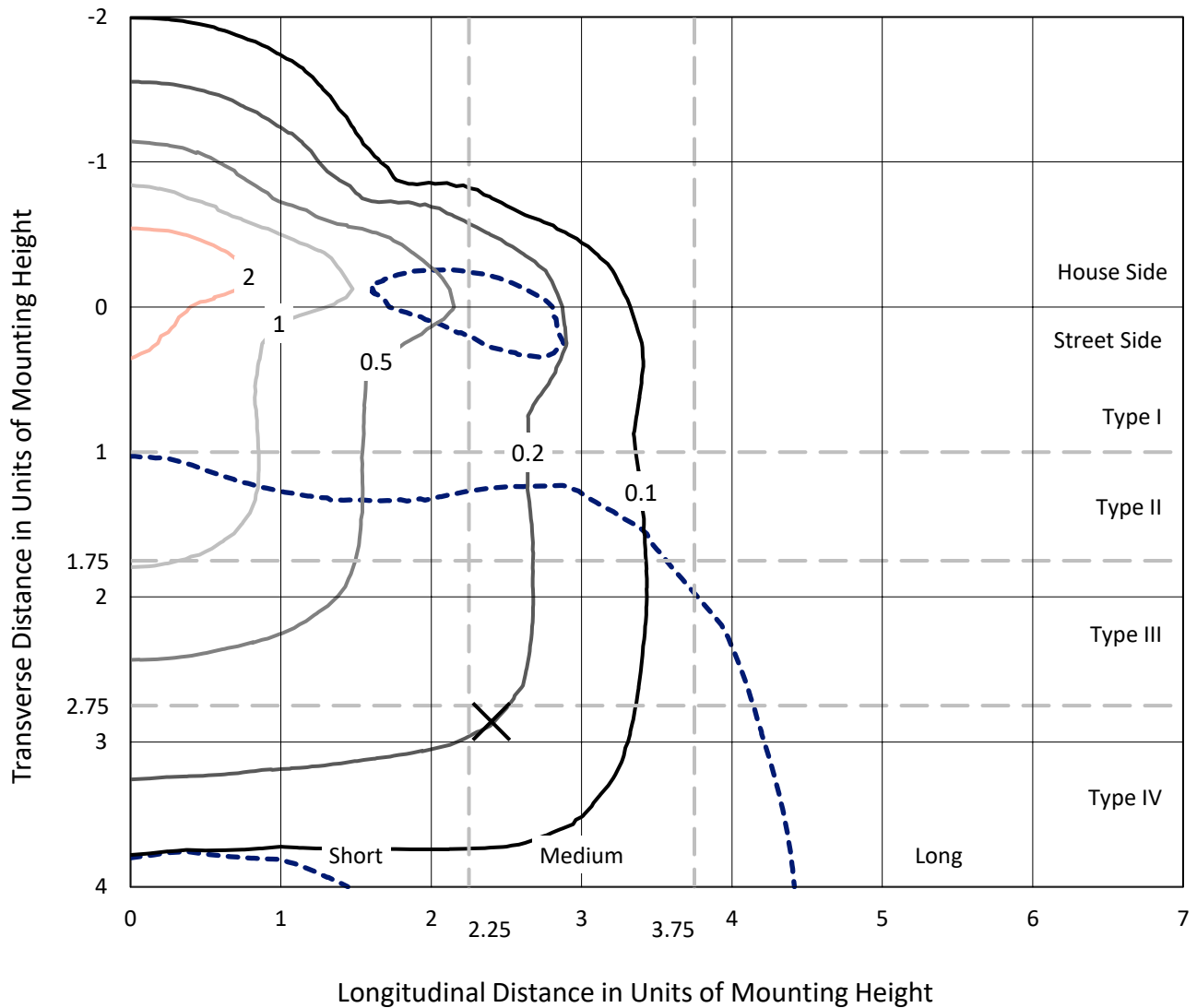
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

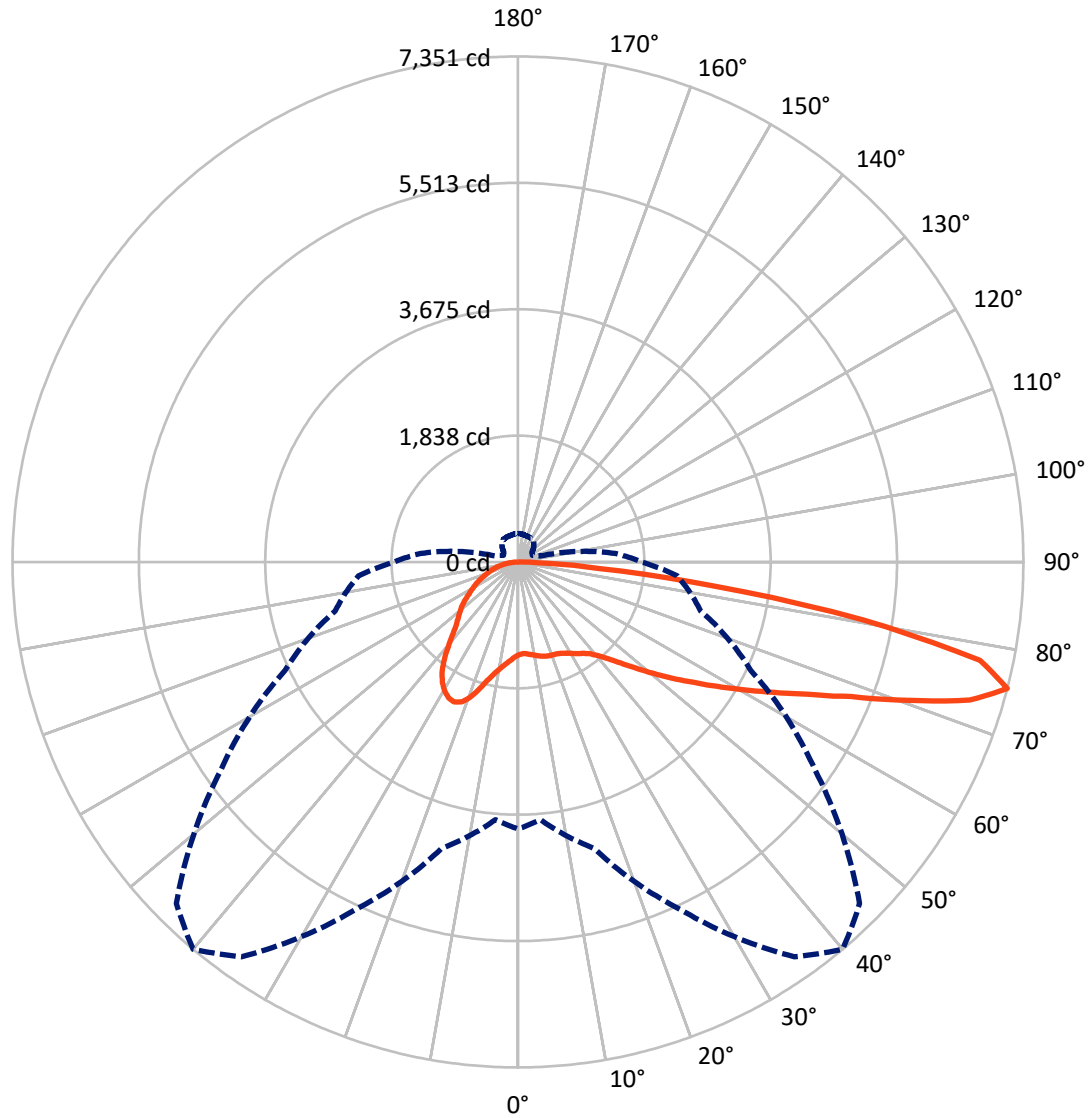
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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
House Side	Lumens	3659.1	0.0	3659.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	8150.9	0.0	8150.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	11810.0	0.0	11810.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	1.1
10°-20°	452.6	3.8
20°-30°	826.4	7.0
30°-40°	1172.1	9.9
40°-50°	1582.7	13.4
50°-60°	2129.1	18.0
60°-70°	2702.3	22.9
70°-80°	2452.5	20.8
80°-90°	357.5	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°	11810.0	100.0
0°-180°	11810.0	100.0

Coefficient of Utilization



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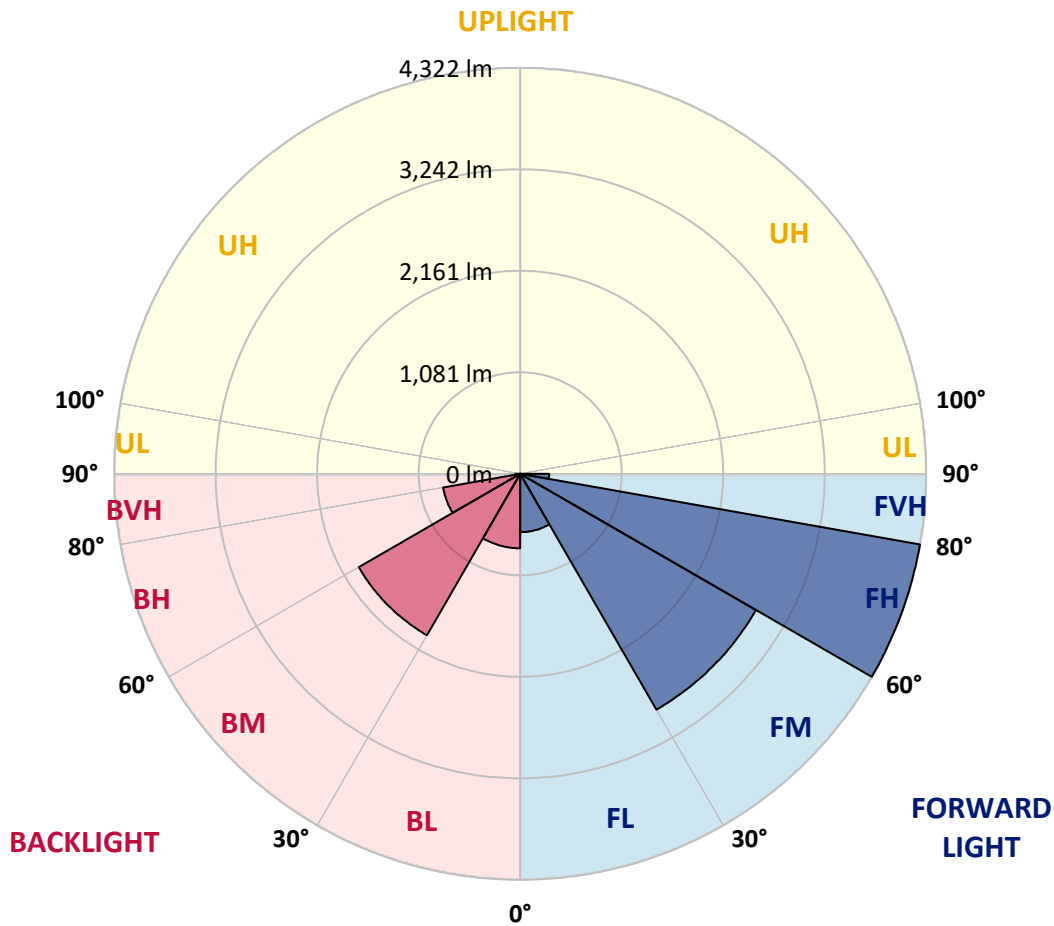
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	621.2	5.3			
FM (30°-60°)	2899.1	24.5			
FH (60°-80°)	4322.3	36.6			G2/5000
FVH (80°-90°)	308.3	2.6			G3/500
BL (0°-30°)	792.6	6.7	B2/1000		
BM (30°-60°)	1984.7	16.8	B2/2500		
BH (60°-80°)	832.6	7.0	B2/1000		G2/1000
BVH (80°-90°)	49.2	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°	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5
2.5°	1329.8	1337.3	1335.5	1333.0	1333.0	1333.6	1333.0	1337.3	1341.7	1346.1
5°	1343.6	1351.1	1347.4	1344.2	1341.7	1341.1	1339.2	1338.6	1341.1	1346.7
7.5°	1370.5	1378.1	1372.4	1366.8	1361.8	1359.3	1356.8	1353.0	1351.1	1354.2
10°	1400.6	1408.1	1401.2	1391.2	1383.1	1379.9	1377.4	1373.7	1371.2	1373.0
12.5°	1430.7	1438.2	1428.8	1415.0	1404.4	1402.5	1399.3	1398.1	1397.5	1396.8
15°	1458.9	1465.1	1453.2	1436.9	1425.7	1422.5	1419.4	1421.3	1424.4	1428.2
17.5°	1480.8	1487.0	1469.5	1448.2	1437.6	1436.3	1434.4	1440.7	1449.5	1458.9
20°	1500.8	1507.1	1484.5	1455.7	1443.2	1443.2	1443.8	1457.0	1469.5	1483.3
22.5°	1529.0	1534.0	1506.5	1467.0	1448.8	1450.1	1455.1	1468.2	1483.9	1502.7
25°	1571.0	1574.7	1540.9	1488.3	1467.6	1471.4	1475.8	1482.0	1497.1	1519.0
27.5°	1638.6	1641.8	1597.3	1525.9	1494.6	1500.8	1507.1	1502.7	1509.6	1528.4
30°	1733.8	1735.7	1679.3	1584.8	1540.3	1543.4	1544.7	1526.5	1513.3	1528.4
32.5°	1846.6	1846.0	1778.9	1656.2	1592.3	1589.1	1578.5	1542.8	1512.1	1525.3
35°	2021.3	2014.5	1928.0	1756.4	1651.2	1631.7	1606.7	1561.0	1518.4	1522.1
37.5°	2310.7	2289.4	2169.8	1920.5	1738.8	1689.4	1652.4	1590.4	1532.1	1520.9
40°	2637.1	2610.2	2478.6	2145.4	1870.4	1790.8	1731.3	1632.4	1554.7	1526.5
42.5°	3024.2	2986.0	2844.4	2410.3	2037.0	1921.8	1832.2	1685.6	1587.9	1544.7
45°	3499.6	3448.9	3248.4	2709.1	2246.8	2093.4	1973.7	1766.4	1638.6	1579.7
47.5°	3980.1	3992.6	3707.6	3051.1	2498.7	2305.1	2151.0	1887.9	1712.5	1636.1
50°	4490.6	4499.3	4164.2	3430.1	2784.3	2544.4	2350.2	2023.9	1815.3	1716.3
52.5°	4888.9	4890.2	4578.9	3826.6	3081.8	2807.5	2565.1	2179.2	1934.3	1822.8
55°	5138.2	5135.1	4869.5	4201.8	3423.8	3083.7	2803.1	2355.8	2079.6	1948.1
57.5°	5319.3	5309.9	5070.0	4524.4	3788.4	3410.0	3072.4	2556.3	2251.2	2097.1
60°	5388.2	5382.5	5205.9	4803.1	4171.7	3770.8	3383.1	2780.5	2446.0	2273.2
62.5°	5414.5	5425.1	5339.3	5073.1	4582.0	4170.5	3724.5	3048.6	2665.3	2472.3
65°	5507.2	5526.6	5509.1	5426.4	5045.5	4638.4	4177.4	3367.5	2904.6	2685.9
67.5°	5690.7	5710.1	5717.7	5849.2	5611.8	5221.6	4742.4	3764.6	3184.5	2907.7
70°	5686.3	5680.7	5813.5	6185.6	6320.9	6029.0	5504.1	4253.2	3518.4	3091.8
72.5°	5175.8	5130.7	5444.6	6181.8	6910.9	6872.1	6434.2	4883.3	3806.6	3114.4
75°	3883.0	3762.7	4317.1	5571.1	7009.3	7350.6	7025.6	5274.2	3738.3	2751.7
77.5°	1660.6	1539.7	2193.0	4124.1	6273.3	6871.5	6483.1	4601.4	2984.1	1819.7
80°	434.7	434.1	662.7	1869.8	4266.3	5074.4	4451.7	2971.6	1705.0	650.2
82.5°	179.8	175.4	243.7	727.2	2084.6	2847.6	2323.9	1325.4	615.7	176.0
85°	67.0	66.4	118.4	251.2	735.4	1174.5	850.0	338.9	153.5	85.8
87.5°	18.8	18.2	25.7	87.1	179.1	271.9	145.3	55.7	43.2	33.8
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°
1350.5	0°	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5
1353.0	2.5°	1354.9	1358.0	1363.6	1368.0	1373.7	1379.9	1388.7	1394.3	1400.0	1403.7
1356.1	5°	1360.5	1367.4	1381.8	1396.2	1413.1	1428.8	1447.0	1460.1	1470.8	1473.9
1367.4	7.5°	1373.0	1384.3	1408.7	1433.2	1460.1	1485.8	1512.1	1534.6	1552.8	1559.7
1387.4	10°	1395.0	1410.0	1444.4	1478.9	1514.6	1554.1	1587.9	1620.5	1646.1	1656.8
1411.2	12.5°	1422.5	1441.3	1486.4	1534.0	1583.5	1638.0	1681.8	1721.9	1753.9	1768.3
1444.4	15°	1458.2	1482.7	1540.3	1604.2	1676.8	1752.6	1808.4	1852.9	1888.6	1906.1
1478.9	17.5°	1497.1	1529.6	1602.3	1698.8	1802.7	1902.3	1967.5	2000.1	2037.0	2053.9
1510.8	20°	1534.6	1574.7	1678.7	1819.0	1957.5	2063.3	2115.9	2124.7	2127.2	2129.1
1540.9	22.5°	1573.5	1627.4	1774.6	1970.6	2119.1	2192.4	2199.9	2162.3	2109.7	2085.2
1570.4	25°	1616.1	1687.5	1899.8	2137.9	2258.1	2266.9	2209.3	2117.8	2018.2	1972.5
1594.2	27.5°	1657.4	1757.0	2050.2	2297.6	2358.3	2281.3	2157.3	2027.6	1907.3	1859.1
1611.1	30°	1698.8	1836.6	2216.2	2437.3	2404.1	2245.6	2075.2	1930.5	1809.6	1758.9
1626.1	32.5°	1740.7	1929.3	2407.2	2538.1	2395.9	2169.8	1973.1	1821.5	1715.0	1661.8
1639.3	35°	1788.3	2043.3	2588.2	2593.2	2341.4	2058.3	1838.4	1691.2	1598.5	1555.9
1654.9	37.5°	1850.3	2188.0	2748.0	2607.0	2246.2	1894.8	1671.2	1537.2	1460.7	1441.3
1678.1	40°	1927.4	2362.1	2870.1	2585.1	2105.3	1696.3	1488.3	1381.2	1338.0	1342.3
1709.4	42.5°	2027.6	2556.9	2955.9	2528.7	1909.2	1491.4	1327.9	1280.3	1301.0	1318.5
1756.4	45°	2157.9	2759.2	3009.2	2432.9	1687.5	1317.9	1233.4	1244.6	1260.3	1262.2
1832.2	47.5°	2324.5	2964.1	3044.2	2288.2	1461.4	1195.8	1173.2	1175.7	1172.6	1159.4
1945.6	50°	2532.5	3163.3	3075.6	2096.5	1269.1	1119.4	1089.3	1080.5	1037.3	994.7
2096.5	52.5°	2769.3	3346.2	3088.7	1858.5	1119.4	1055.5	1006.6	951.5	870.7	857.5
2286.3	55°	3032.3	3515.3	3054.9	1566.0	993.4	973.4	899.5	833.1	824.3	813.0
2536.2	57.5°	3346.8	3697.6	2986.0	1239.6	864.4	877.6	805.5	813.0	797.4	779.9
2857.6	60°	3690.7	3886.1	2865.1	942.1	731.0	757.9	781.1	780.5	776.1	761.7
3196.5	62.5°	4000.1	4010.1	2627.1	721.6	613.9	665.2	728.5	727.9	724.1	716.0
3550.4	65°	4184.3	3991.3	2229.9	568.1	517.4	588.8	657.1	662.1	662.7	662.1
3816.6	67.5°	4151.7	3771.5	1685.0	452.3	437.8	511.1	586.3	593.2	598.2	599.5
3850.4	70°	3783.4	3288.5	1098.7	360.8	367.1	442.9	519.3	526.2	530.5	535.6
3341.1	72.5°	2949.0	2417.9	628.9	291.9	305.1	384.0	452.9	461.0	463.5	472.9
2325.1	75°	1797.1	1421.9	339.5	229.9	250.6	328.2	387.1	396.5	400.9	412.2
1141.9	77.5°	854.4	615.7	193.6	179.1	201.7	268.1	327.0	337.6	325.7	332.0
315.1	80°	288.8	228.6	122.1	136.6	154.1	209.2	261.8	272.5	247.4	246.2
104.6	82.5°	100.8	92.7	77.7	90.8	99.6	149.7	197.9	211.7	184.2	183.5
47.0	85°	39.5	37.6	43.2	49.5	59.5	92.1	130.3	137.2	113.4	91.5
13.8	87.5°	8.1	8.8	10.6	11.3	18.2	31.9	47.0	57.6	45.7	38.8
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>
1350.5
1401.2
1475.1
1560.3
1657.4
1768.3
1904.8
2053.3
2134.1
2092.1
1979.4
1864.8
1764.5
1668.7
1565.3
1455.1
1357.4
1334.8
1274.7
1169.5
1000.3
861.9
814.9
776.7
756.7
712.8
662.1
600.7
538.1
476.7
413.4
327.0
243.7
174.8
90.2
35.7
0.0

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