

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: P940392

Luminaire Tested: **GALN-SB3B-940-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940392  
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-SB3B-940-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

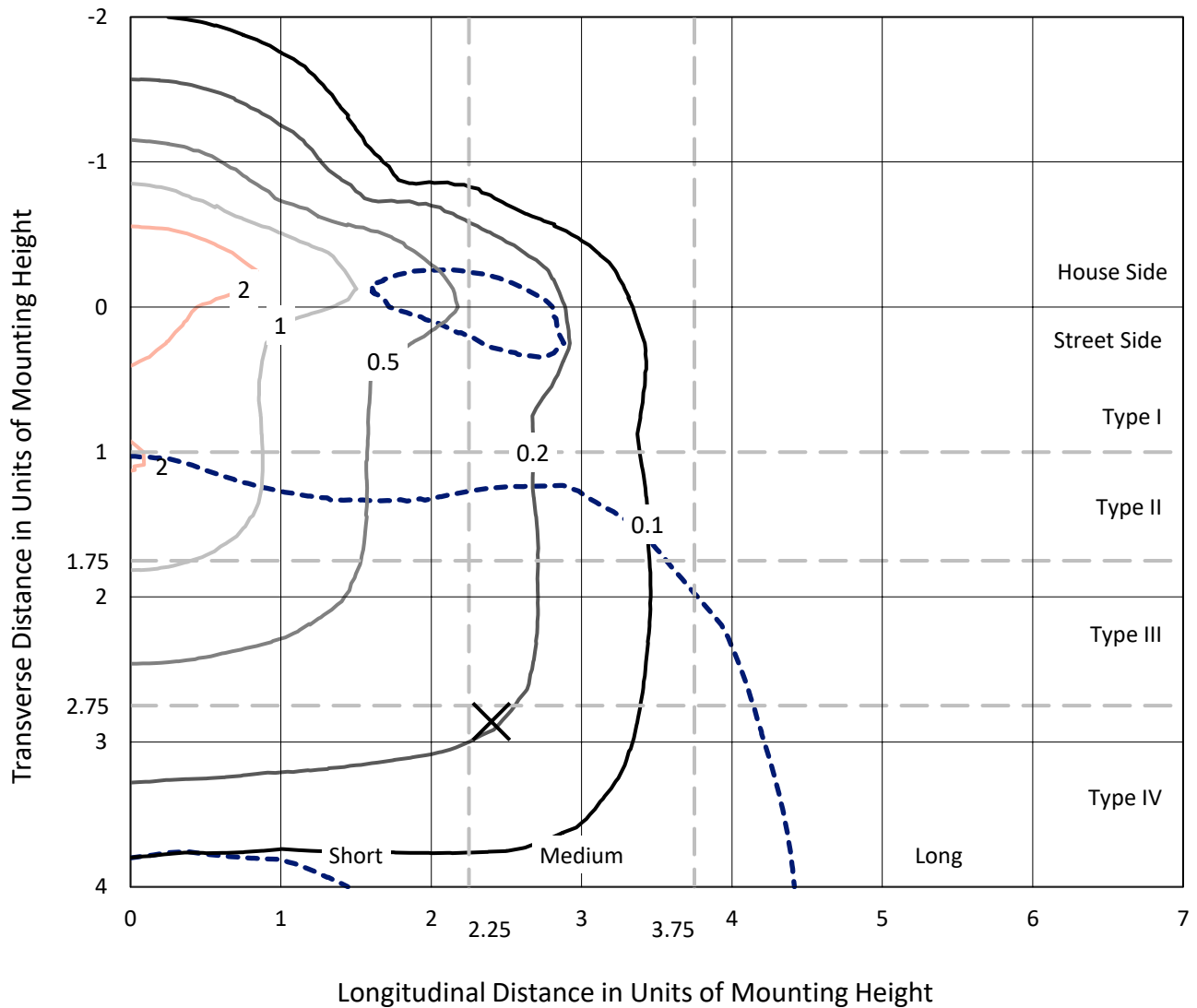
Lumens per Lamp: N/A  
Luminaire Lumens: 12136 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

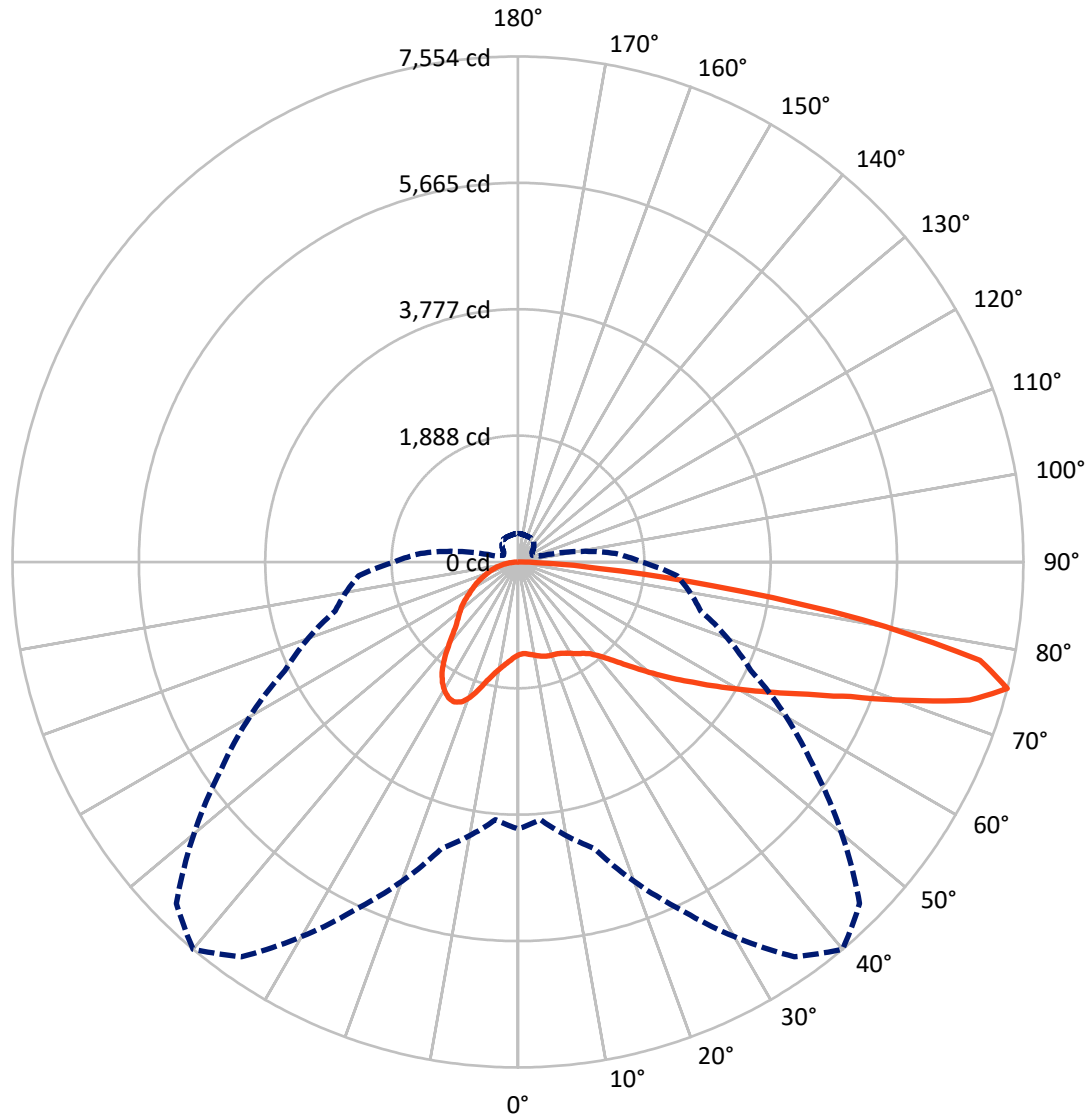
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	3760.1	0.0	3760.1
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	8375.9	0.0	8375.9
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	12136.0	0.0	12136.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.5	1.1
10°-20°	465.1	3.8
20°-30°	849.2	7.0
30°-40°	1204.4	9.9
40°-50°	1626.3	13.4
50°-60°	2187.9	18.0
60°-70°	2776.9	22.9
70°-80°	2520.2	20.8
80°-90°	367.4	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°	12136.0	100.0
0°-180°	12136.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P940392

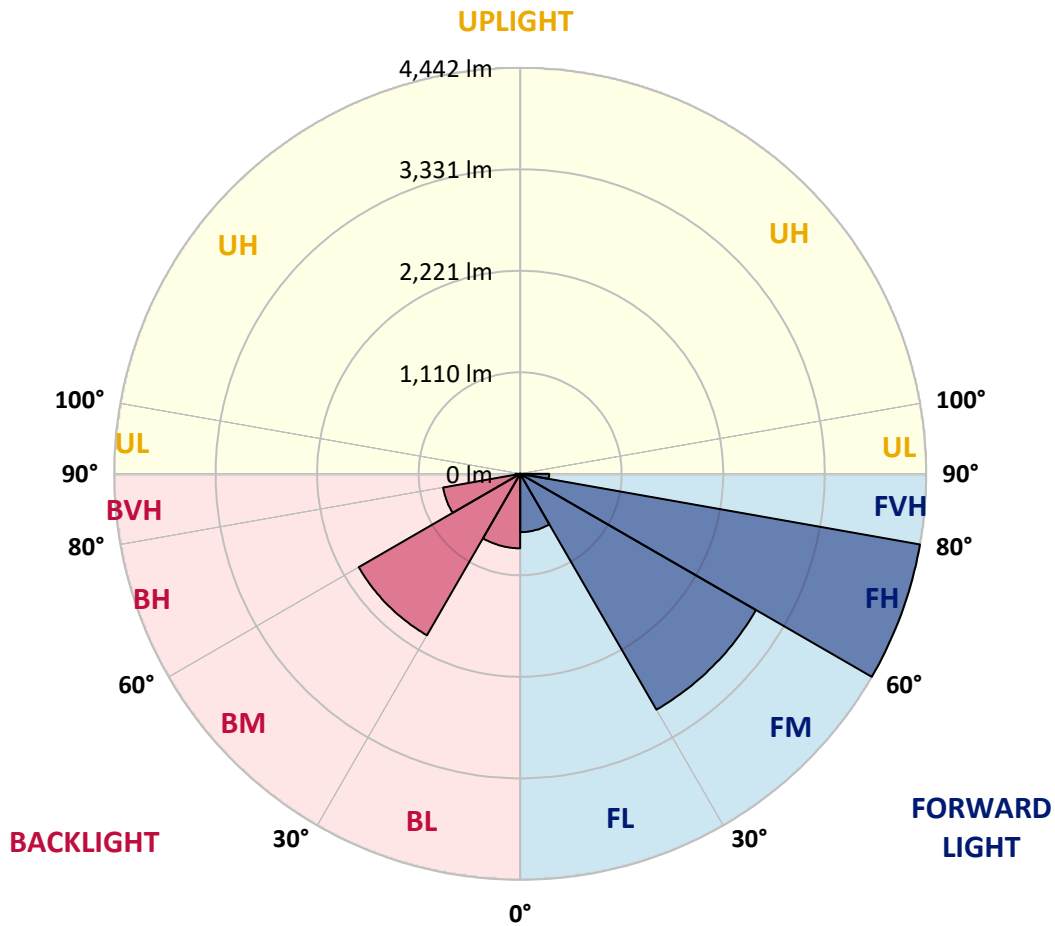
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	638.4	5.3			
FM (30°-60°)	2979.1	24.5			
FH (60°-80°)	4441.6	36.6			G2/5000
FVH (80°-90°)	316.8	2.6			G3/500
BL (0°-30°)	814.5	6.7	B2/1000		
BM (30°-60°)	2039.5	16.8	B2/2500		
BH (60°-80°)	855.5	7.0	B2/1000		G2/1000
BVH (80°-90°)	50.6	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°	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8
2.5°	1366.5	1374.3	1372.3	1369.7	1369.7	1370.4	1369.7	1374.3	1378.8	1383.3
5°	1380.7	1388.4	1384.5	1381.3	1378.8	1378.1	1376.2	1375.5	1378.1	1383.9
7.5°	1408.4	1416.1	1410.3	1404.5	1399.4	1396.8	1394.2	1390.3	1388.4	1391.6
10°	1439.3	1447.0	1439.9	1429.6	1421.2	1418.0	1415.4	1411.6	1409.0	1410.9
12.5°	1470.2	1477.9	1468.2	1454.1	1443.1	1441.2	1438.0	1436.7	1436.0	1435.4
15°	1499.1	1505.6	1493.3	1476.6	1465.0	1461.8	1458.6	1460.5	1463.7	1467.6
17.5°	1521.7	1528.1	1510.1	1488.2	1477.2	1476.0	1474.0	1480.5	1489.5	1499.1
20°	1542.3	1548.7	1525.5	1495.9	1483.0	1483.0	1483.7	1497.2	1510.1	1524.2
22.5°	1571.2	1576.4	1548.0	1507.5	1488.8	1490.1	1495.3	1508.8	1524.9	1544.2
25°	1614.3	1618.2	1583.4	1529.4	1508.1	1512.0	1516.5	1522.9	1538.4	1560.9
27.5°	1683.9	1687.1	1641.4	1568.0	1535.8	1542.3	1548.7	1544.2	1551.3	1570.6
30°	1781.7	1783.6	1725.7	1628.5	1582.8	1586.0	1587.3	1568.6	1555.1	1570.6
32.5°	1897.6	1896.9	1828.0	1701.9	1636.2	1633.0	1622.1	1585.4	1553.8	1567.4
35°	2077.1	2070.1	1981.2	1804.9	1696.7	1676.8	1651.0	1604.0	1560.3	1564.1
37.5°	2374.5	2352.6	2229.7	1973.5	1786.8	1736.0	1698.0	1634.3	1574.4	1562.8
40°	2709.9	2682.2	2547.0	2204.6	1922.0	1840.3	1779.1	1677.4	1597.6	1568.6
42.5°	3107.7	3068.4	2922.9	2476.9	2093.2	1974.8	1882.8	1732.1	1631.7	1587.3
45°	3596.2	3544.1	3338.1	2783.9	2308.9	2151.2	2028.2	1815.2	1683.9	1623.4
47.5°	4089.9	4102.8	3809.9	3135.4	2567.6	2368.7	2210.4	1940.0	1759.8	1681.3
50°	4614.5	4623.5	4279.2	3524.8	2861.1	2614.6	2415.1	2079.7	1865.4	1763.7
52.5°	5023.9	5025.2	4705.3	3932.2	3166.9	2885.0	2635.9	2239.4	1987.7	1873.1
55°	5280.1	5276.9	5003.9	4317.8	3518.3	3168.8	2880.5	2420.9	2137.0	2001.8
57.5°	5466.1	5456.5	5209.9	4649.3	3893.0	3504.2	3157.2	2626.8	2313.4	2155.0
60°	5536.9	5531.1	5349.6	4935.7	4286.9	3874.9	3476.5	2857.3	2513.6	2335.9
62.5°	5563.9	5574.9	5486.7	5213.1	4708.5	4285.6	3827.3	3132.8	2738.8	2540.6
65°	5659.2	5679.2	5661.1	5576.2	5184.8	4766.4	4292.7	3460.4	2984.7	2760.1
67.5°	5847.8	5867.8	5875.5	6010.7	5766.7	5365.7	4873.3	3868.5	3272.5	2987.9
70°	5843.3	5837.5	5974.0	6356.3	6495.3	6195.4	5656.0	4370.6	3615.5	3177.2
72.5°	5318.7	5272.4	5594.8	6352.4	7101.7	7061.8	6611.9	5018.1	3911.6	3200.4
75°	3990.2	3866.6	4436.2	5724.9	7202.7	7553.6	7219.5	5419.8	3841.5	2827.7
77.5°	1706.4	1582.2	2253.5	4238.0	6446.4	7061.1	6662.1	4728.5	3066.5	1869.9
80°	446.7	446.1	681.0	1921.4	4384.1	5214.4	4574.6	3053.6	1752.1	668.1
82.5°	184.7	180.2	250.4	747.3	2142.2	2926.2	2388.0	1362.0	632.7	180.9
85°	68.9	68.2	121.7	258.1	755.7	1206.9	873.5	348.2	157.7	88.2
87.5°	19.3	18.7	26.4	89.5	184.1	279.4	149.3	57.3	44.4	34.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940392  
 CATALOG NUMBER: GALN-SB3B-940-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1387.8	0°	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8
1390.3	2.5°	1392.3	1395.5	1401.3	1405.8	1411.6	1418.0	1427.0	1432.8	1438.6	1442.5
1393.6	5°	1398.1	1405.1	1420.0	1434.8	1452.1	1468.2	1486.9	1500.4	1511.4	1514.6
1405.1	7.5°	1410.9	1422.5	1447.6	1472.7	1500.4	1526.8	1553.8	1577.0	1595.7	1602.8
1425.7	10°	1433.5	1448.9	1484.3	1519.7	1556.4	1597.0	1631.7	1665.2	1691.6	1702.5
1450.2	12.5°	1461.8	1481.1	1527.4	1576.4	1627.2	1683.2	1728.3	1769.5	1802.3	1817.1
1484.3	15°	1498.5	1523.6	1582.8	1648.5	1723.1	1801.0	1858.3	1904.0	1940.7	1958.7
1519.7	17.5°	1538.4	1571.9	1646.5	1745.7	1852.5	1954.8	2021.8	2055.3	2093.2	2110.6
1552.5	20°	1577.0	1618.2	1725.1	1869.2	2011.5	2120.3	2174.3	2183.4	2185.9	2187.9
1583.4	22.5°	1616.9	1672.3	1823.5	2025.0	2177.6	2252.9	2260.6	2222.0	2167.9	2142.8
1613.7	25°	1660.7	1734.1	1952.3	2196.9	2320.5	2329.5	2270.2	2176.3	2073.9	2026.9
1638.2	27.5°	1703.2	1805.5	2106.8	2361.0	2423.4	2344.3	2216.8	2083.6	1960.0	1910.4
1655.5	30°	1745.7	1887.3	2277.3	2504.5	2470.4	2307.6	2132.5	1983.8	1859.6	1807.4
1671.0	32.5°	1788.8	1982.5	2473.7	2608.2	2462.1	2229.7	2027.6	1871.8	1762.4	1707.7
1684.5	35°	1837.7	2099.7	2659.7	2664.8	2406.1	2115.1	1889.2	1737.9	1642.7	1598.9
1700.6	37.5°	1901.4	2248.4	2823.8	2679.0	2308.2	1947.1	1717.3	1579.6	1501.1	1481.1
1724.4	40°	1980.6	2427.3	2949.3	2656.5	2163.4	1743.1	1529.4	1419.3	1374.9	1379.4
1756.6	42.5°	2083.6	2627.5	3037.5	2598.5	1961.9	1532.6	1364.6	1315.7	1336.9	1354.9
1804.9	45°	2217.5	2835.4	3092.2	2500.0	1734.1	1354.3	1267.4	1279.0	1295.1	1297.0
1882.8	47.5°	2388.7	3045.9	3128.3	2351.4	1501.7	1228.8	1205.6	1208.2	1205.0	1191.4
1999.3	50°	2602.4	3250.6	3160.5	2154.4	1304.1	1150.3	1119.4	1110.3	1065.9	1022.2
2154.4	52.5°	2845.7	3438.5	3174.0	1909.8	1150.3	1084.6	1034.4	977.7	894.7	881.2
2349.4	55°	3116.0	3612.3	3139.2	1609.2	1020.9	1000.3	924.3	856.1	847.1	835.5
2606.2	57.5°	3439.2	3799.6	3068.4	1273.8	888.3	901.8	827.8	835.5	819.4	801.4
2936.5	60°	3792.5	3993.4	2944.2	968.1	751.2	778.8	802.7	802.0	797.5	782.7
3284.7	62.5°	4110.5	4120.8	2699.6	741.5	630.8	683.6	748.6	748.0	744.1	735.7
3648.4	65°	4299.8	4101.5	2291.5	583.8	531.7	605.1	675.2	680.4	681.0	680.4
3921.9	67.5°	4266.3	3875.6	1731.5	464.7	449.9	525.2	602.5	609.6	614.7	616.0
3956.7	70°	3887.8	3379.3	1129.0	370.8	377.2	455.1	533.6	540.7	545.2	550.3
3433.4	72.5°	3030.4	2484.6	646.3	300.0	313.5	394.6	465.4	473.7	476.3	486.0
2389.3	75°	1846.7	1461.1	348.9	236.2	257.5	337.3	397.8	407.4	412.0	423.5
1173.4	77.5°	878.0	632.7	198.9	184.1	207.3	275.5	336.0	346.9	334.7	341.1
323.8	80°	296.7	234.9	125.5	140.3	158.3	215.0	269.1	280.0	254.3	253.0
107.5	82.5°	103.6	95.3	79.8	93.3	102.3	153.8	203.4	217.6	189.2	188.6
48.3	85°	40.6	38.6	44.4	50.9	61.1	94.6	133.9	141.0	116.5	94.0
14.2	87.5°	8.4	9.0	10.9	11.6	18.7	32.8	48.3	59.2	47.0	39.9
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>
1387.8
1439.9
1515.9
1603.4
1703.2
1817.1
1957.4
2110.0
2193.0
2149.9
2034.0
1916.2
1813.2
1714.8
1608.5
1495.3
1394.8
1371.7
1309.9
1201.7
1028.0
885.7
837.4
798.2
777.6
732.5
680.4
617.3
552.9
489.8
424.8
336.0
250.4
179.6
92.7
36.7
0.0

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