

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: P940182

Luminaire Tested: **GALN-SB3A-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940182
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-SB3A-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12761 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

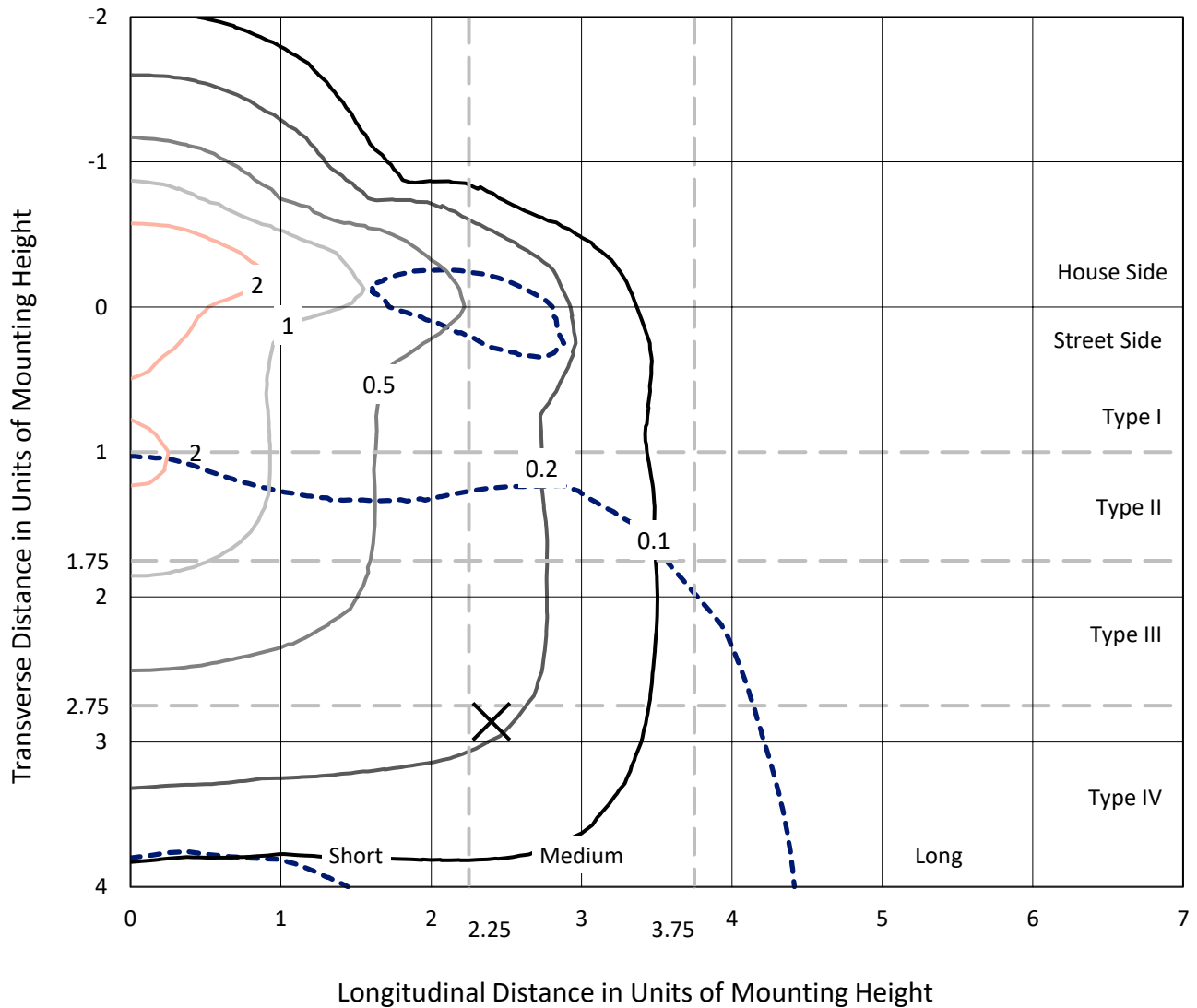
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

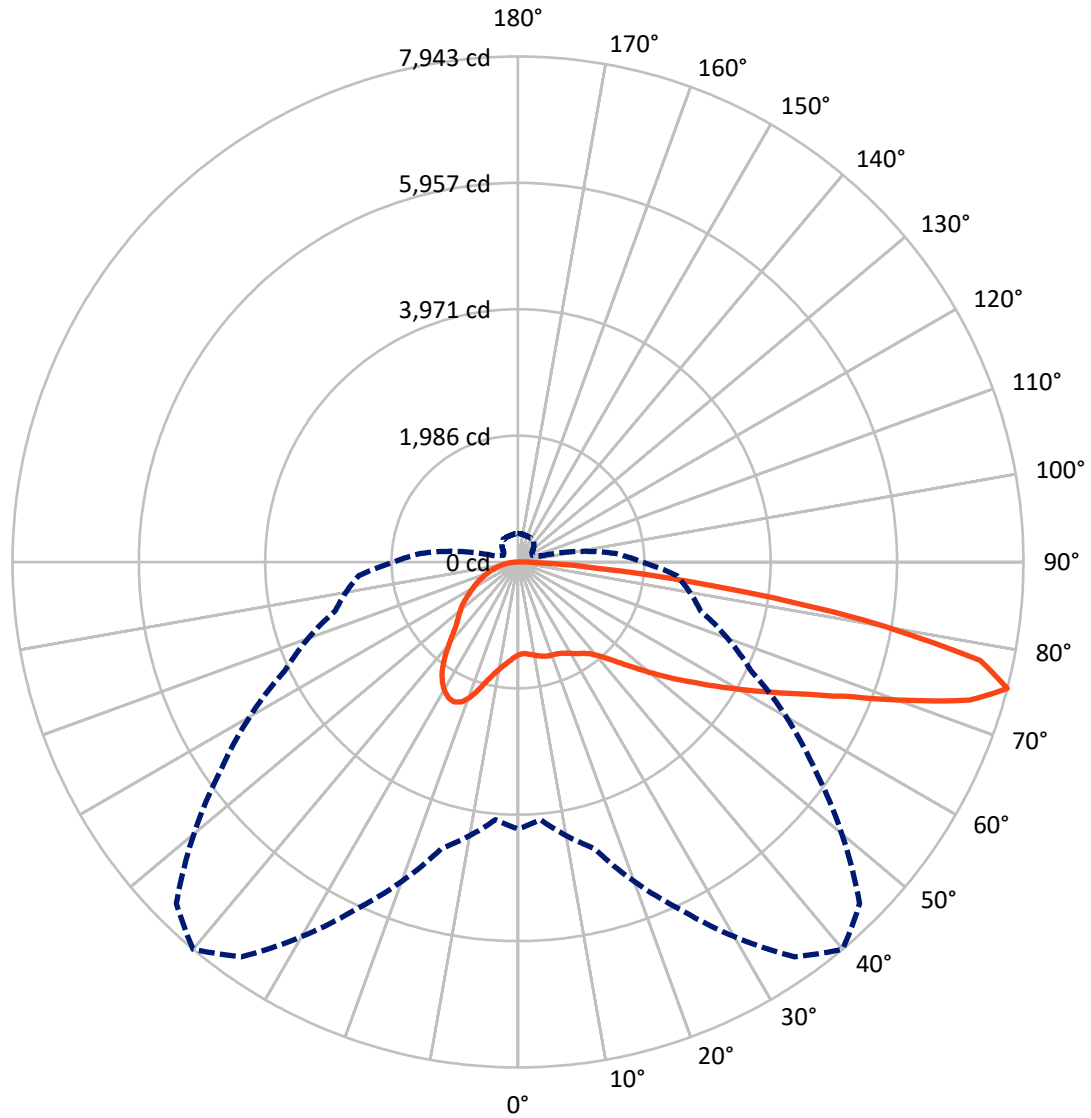
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	3953.8	0.0	3953.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	8807.2	0.0	8807.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	12761.0	0.0	12761.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	1.1
10°-20°	489.0	3.8
20°-30°	893.0	7.0
30°-40°	1266.5	9.9
40°-50°	1710.1	13.4
50°-60°	2300.5	18.0
60°-70°	2919.9	22.9
70°-80°	2650.0	20.8
80°-90°	386.3	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°	12761.0	100.0
0°-180°	12761.0	100.0



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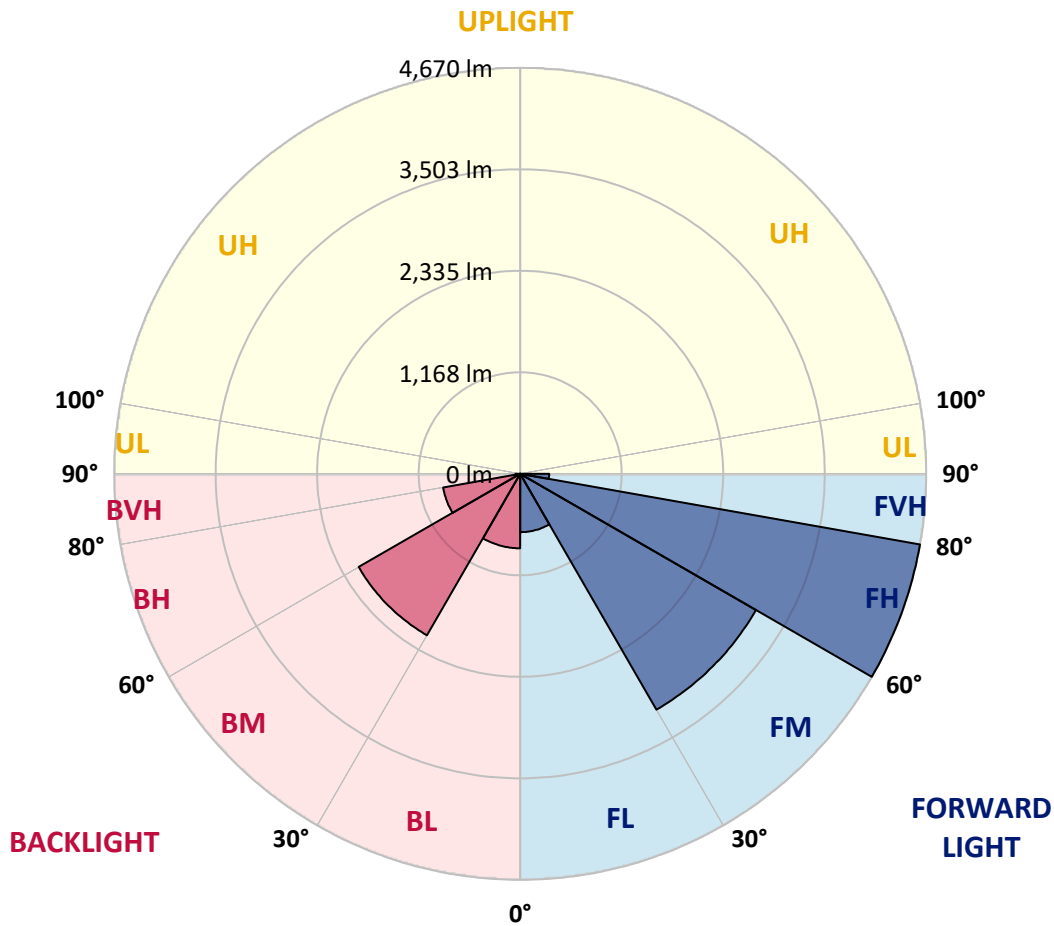
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	671.2	5.3			
FM (30°-60°)	3132.5	24.5			
FH (60°-80°)	4670.3	36.6			G2/5000
FVH (80°-90°)	333.1	2.6			G3/500
BL (0°-30°)	856.4	6.7	B2/1000		
BM (30°-60°)	2144.6	16.8	B2/2500		
BH (60°-80°)	899.6	7.0	B2/1000		G2/1000
BVH (80°-90°)	53.2	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°	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2
2.5°	1436.9	1445.0	1443.0	1440.3	1440.3	1441.0	1440.3	1445.0	1449.8	1454.5
5°	1451.8	1459.9	1455.9	1452.5	1449.8	1449.1	1447.1	1446.4	1449.1	1455.2
7.5°	1480.9	1489.0	1482.9	1476.8	1471.4	1468.7	1466.0	1461.9	1459.9	1463.3
10°	1513.4	1521.5	1514.1	1503.2	1494.4	1491.0	1488.3	1484.3	1481.6	1483.6
12.5°	1545.9	1554.0	1543.8	1529.0	1517.4	1515.4	1512.0	1510.7	1510.0	1509.3
15°	1576.3	1583.1	1570.2	1552.6	1540.5	1537.1	1533.7	1535.7	1539.1	1543.2
17.5°	1600.0	1606.8	1587.8	1564.8	1553.3	1552.0	1549.9	1556.7	1566.2	1576.3
20°	1621.7	1628.4	1604.1	1572.9	1559.4	1559.4	1560.1	1574.3	1587.8	1602.7
22.5°	1652.1	1657.5	1627.8	1585.1	1565.5	1566.9	1572.3	1586.5	1603.4	1623.7
25°	1697.5	1701.5	1665.0	1608.1	1585.8	1589.9	1594.6	1601.4	1617.6	1641.3
27.5°	1770.6	1774.0	1725.9	1648.7	1614.9	1621.7	1628.4	1623.7	1631.2	1651.5
30°	1873.5	1875.5	1814.6	1712.4	1664.3	1667.7	1669.1	1649.4	1635.2	1651.5
32.5°	1995.3	1994.6	1922.2	1789.5	1720.5	1717.1	1705.6	1667.0	1633.9	1648.1
35°	2184.1	2176.7	2083.3	1897.8	1784.1	1763.1	1736.1	1686.7	1640.6	1644.7
37.5°	2496.8	2473.8	2344.5	2075.1	1878.9	1825.4	1785.5	1718.5	1655.5	1643.3
40°	2849.4	2820.3	2678.2	2318.1	2021.0	1935.0	1870.7	1763.8	1679.9	1649.4
42.5°	3267.7	3226.4	3073.5	2604.4	2201.0	2076.5	1979.7	1821.3	1715.8	1669.1
45°	3781.4	3726.6	3510.0	2927.3	2427.8	2262.0	2132.7	1908.6	1770.6	1707.0
47.5°	4300.6	4314.1	4006.1	3296.8	2699.9	2490.7	2324.2	2040.0	1850.4	1767.9
50°	4852.2	4861.6	4499.5	3706.3	3008.5	2749.3	2539.5	2186.8	1961.4	1854.5
52.5°	5282.6	5284.0	4947.6	4134.7	3330.0	3033.5	2771.6	2354.7	2090.0	1969.6
55°	5552.0	5548.6	5261.6	4540.2	3699.5	3332.0	3028.8	2545.5	2247.1	2104.9
57.5°	5747.6	5737.5	5478.2	4888.7	4093.4	3684.6	3319.8	2762.1	2432.5	2266.0
60°	5822.1	5816.0	5625.1	5189.9	4507.7	4074.5	3655.5	3004.4	2643.0	2456.2
62.5°	5850.5	5862.0	5769.3	5481.6	4951.0	4506.3	4024.4	3294.1	2879.9	2671.4
65°	5950.7	5971.6	5952.7	5863.3	5451.8	5011.9	4513.8	3638.6	3138.4	2902.2
67.5°	6149.0	6169.9	6178.1	6320.2	6063.7	5642.0	5124.3	4067.7	3441.0	3141.8
70°	6144.2	6138.1	6281.6	6683.7	6829.9	6514.5	5947.3	4595.7	3801.7	3340.8
72.5°	5592.6	5543.9	5883.0	6679.6	7467.4	7425.5	6952.4	5276.5	4113.1	3365.2
75°	4195.6	4065.7	4664.7	6019.7	7573.7	7942.6	7591.3	5698.9	4039.3	2973.3
77.5°	1794.3	1663.6	2369.6	4456.2	6778.4	7424.8	7005.2	4972.0	3224.4	1966.2
80°	469.7	469.0	716.1	2020.3	4609.9	5483.0	4810.2	3210.9	1842.3	702.5
82.5°	194.2	189.5	263.3	785.8	2252.5	3076.9	2511.0	1432.2	665.3	190.2
85°	72.4	71.7	127.9	271.4	794.6	1269.0	918.5	366.2	165.8	92.7
87.5°	20.3	19.6	27.7	94.1	193.6	293.7	157.0	60.2	46.7	36.5
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°
1459.2	0°	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2
1461.9	2.5°	1464.0	1467.4	1473.5	1478.2	1484.3	1491.0	1500.5	1506.6	1512.7	1516.8
1465.3	5°	1470.1	1477.5	1493.1	1508.6	1526.9	1543.8	1563.5	1577.7	1589.2	1592.6
1477.5	7.5°	1483.6	1495.8	1522.2	1548.6	1577.7	1605.4	1633.9	1658.2	1677.9	1685.3
1499.2	10°	1507.3	1523.5	1560.8	1598.0	1636.6	1679.2	1715.8	1750.9	1778.7	1790.2
1524.9	12.5°	1537.1	1557.4	1606.1	1657.5	1711.0	1769.9	1817.3	1860.6	1895.1	1910.7
1560.8	15°	1575.7	1602.0	1664.3	1733.4	1811.9	1893.8	1954.0	2002.1	2040.6	2059.6
1598.0	17.5°	1617.6	1652.8	1731.3	1835.6	1947.9	2055.5	2125.9	2161.1	2201.0	2219.3
1632.5	20°	1658.2	1701.5	1813.9	1965.5	2115.1	2229.5	2286.3	2295.8	2298.5	2300.5
1665.0	22.5°	1700.2	1758.4	1917.4	2129.3	2289.7	2368.9	2377.0	2336.4	2279.6	2253.2
1696.8	25°	1746.2	1823.4	2052.8	2310.0	2440.0	2449.4	2387.2	2288.3	2180.7	2131.3
1722.5	27.5°	1790.9	1898.5	2215.3	2482.6	2548.3	2465.0	2331.0	2190.9	2060.9	2008.8
1740.8	30°	1835.6	1984.5	2394.6	2633.5	2597.7	2426.4	2242.3	2086.0	1955.4	1900.5
1757.0	32.5°	1880.9	2084.6	2601.0	2742.5	2588.9	2344.5	2132.0	1968.2	1853.2	1795.6
1771.3	35°	1932.3	2207.8	2796.6	2802.1	2530.0	2224.1	1986.5	1827.4	1727.3	1681.2
1788.2	37.5°	1999.3	2364.2	2969.2	2817.0	2427.1	2047.4	1805.8	1660.9	1578.4	1557.4
1813.2	40°	2082.6	2552.3	3101.2	2793.3	2274.8	1832.8	1608.1	1492.4	1445.7	1450.4
1847.1	42.5°	2190.9	2762.8	3193.9	2732.3	2063.0	1611.5	1434.9	1383.4	1405.8	1424.7
1897.8	45°	2331.7	2981.4	3251.5	2628.8	1823.4	1424.0	1332.7	1344.9	1361.8	1363.8
1979.7	47.5°	2511.7	3202.7	3289.4	2472.4	1579.0	1292.1	1267.7	1270.4	1267.0	1252.8
2102.2	50°	2736.4	3418.0	3323.2	2265.3	1371.2	1209.5	1177.0	1167.5	1120.8	1074.8
2265.3	52.5°	2992.2	3615.6	3337.4	2008.1	1209.5	1140.5	1087.7	1028.1	940.8	926.6
2470.4	55°	3276.5	3798.3	3300.9	1692.1	1073.4	1051.8	971.9	900.2	890.7	878.5
2740.5	57.5°	3616.3	3995.3	3226.4	1339.4	934.0	948.2	870.4	878.5	861.6	842.6
3087.7	60°	3987.9	4199.0	3095.8	1017.9	789.9	819.0	844.0	843.3	838.6	823.0
3453.8	62.5°	4322.2	4333.0	2838.6	779.7	663.3	718.8	787.1	786.5	782.4	773.6
3836.3	65°	4521.2	4312.7	2409.5	613.9	559.1	636.2	710.0	715.4	716.1	715.4
4123.9	67.5°	4486.0	4075.2	1820.7	488.7	473.1	552.3	633.5	641.0	646.4	647.7
4160.5	70°	4088.0	3553.3	1187.2	389.9	396.6	478.5	561.1	568.5	573.3	578.7
3610.2	72.5°	3186.5	2612.5	679.5	315.4	329.6	414.9	489.3	498.1	500.9	511.0
2512.4	75°	1941.8	1536.4	366.8	248.4	270.7	354.7	418.3	428.4	433.2	445.4
1233.9	77.5°	923.2	665.3	209.1	193.6	217.9	289.7	353.3	364.8	351.9	358.7
340.4	80°	312.0	247.0	132.0	147.5	166.5	226.1	282.9	294.4	267.3	266.0
113.0	82.5°	109.0	100.2	83.9	98.1	107.6	161.8	213.9	228.8	199.0	198.3
50.8	85°	42.6	40.6	46.7	53.5	64.3	99.5	140.8	148.2	122.5	98.8
14.9	87.5°	8.8	9.5	11.5	12.2	19.6	34.5	50.8	62.3	49.4	42.0
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>
1459.2
1514.1
1593.9
1686.0
1790.9
1910.7
2058.2
2218.6
2305.9
2260.6
2138.8
2014.9
1906.6
1803.1
1691.4
1572.3
1466.7
1442.3
1377.3
1263.6
1080.9
931.3
880.6
839.3
817.6
770.2
715.4
649.1
581.4
515.1
446.7
353.3
263.3
188.8
97.5
38.6
0.0

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