

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: P940912

Luminaire Tested: **GALN-SB4A-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940912
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-SB4A-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 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: 12397 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

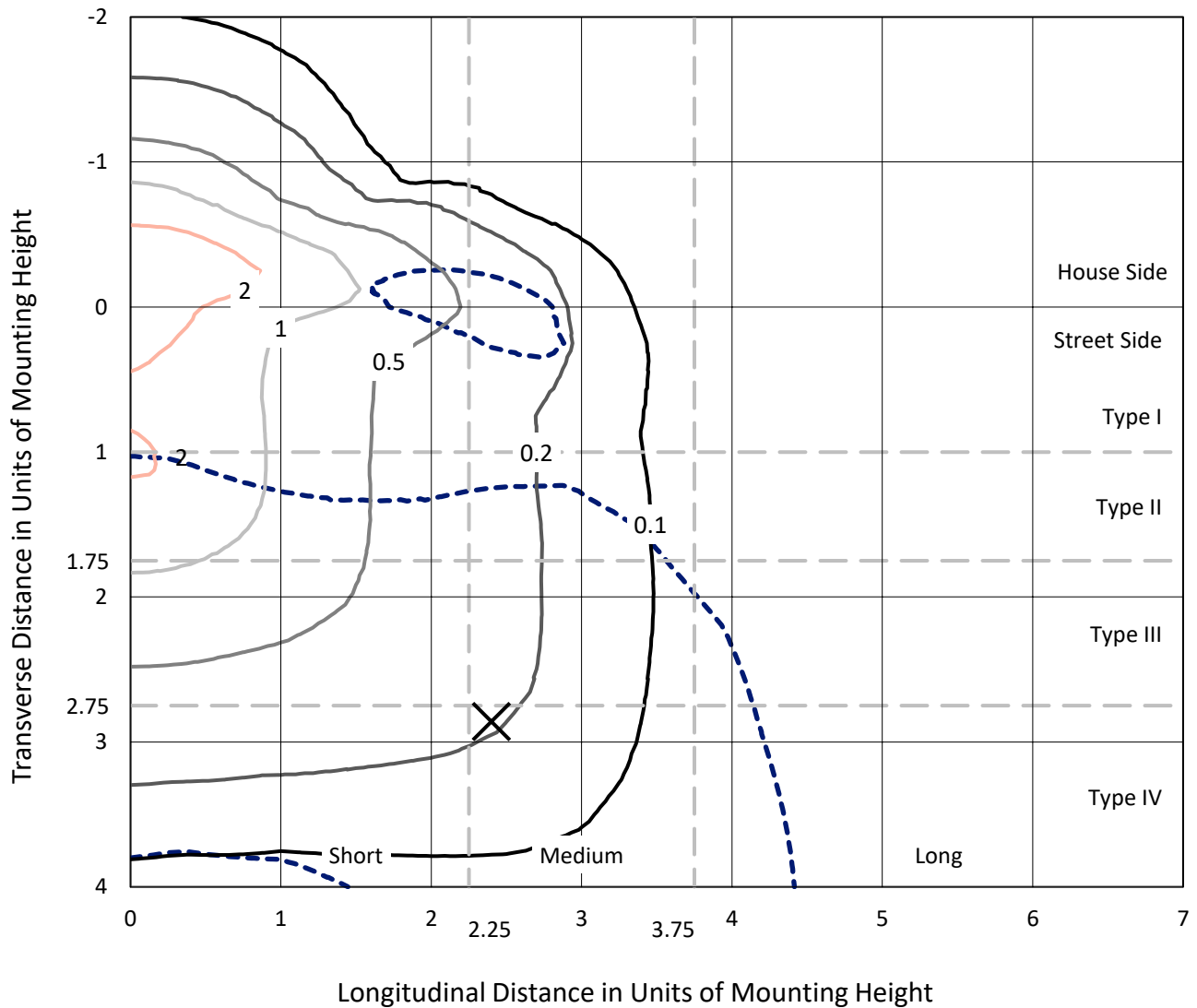
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

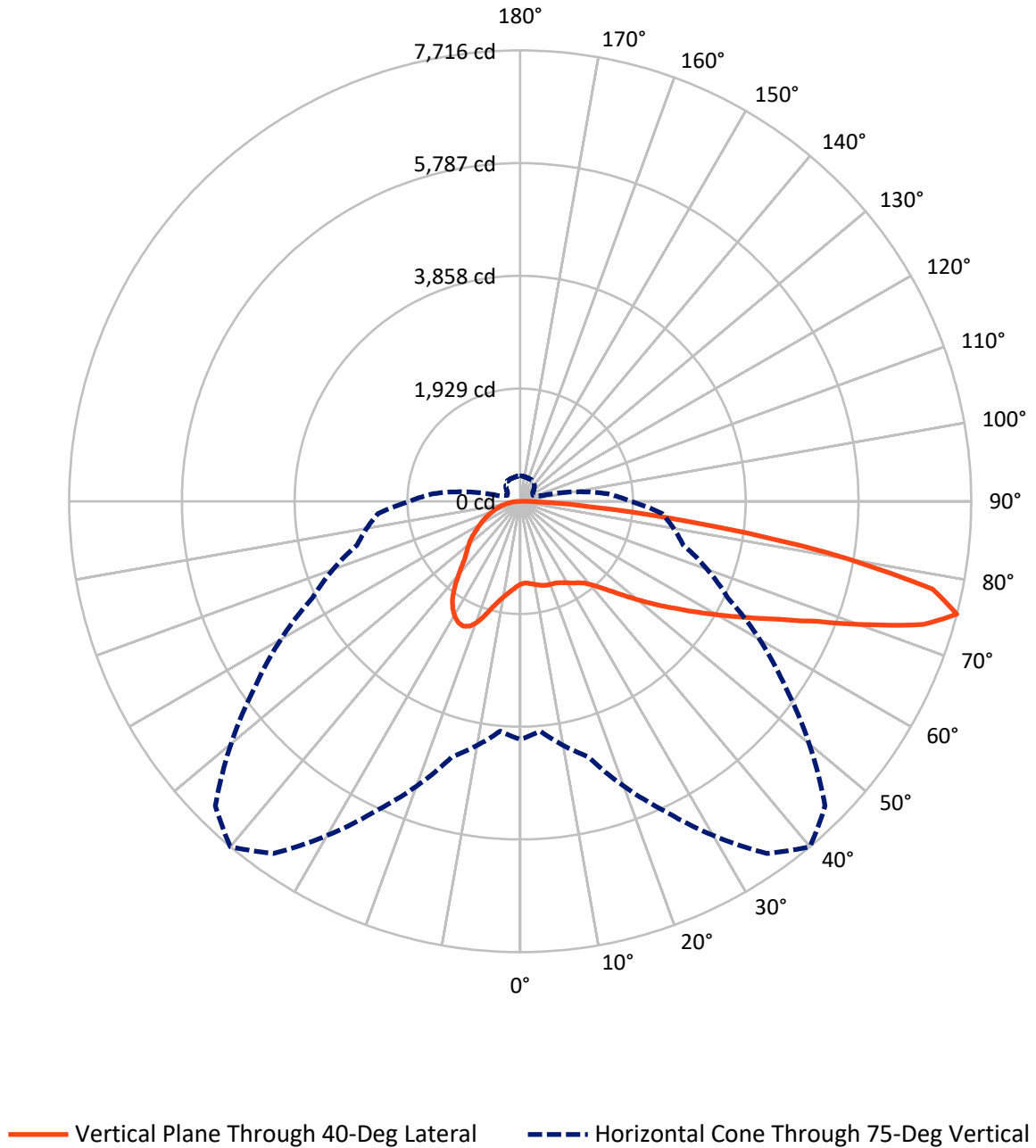
✕ Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3841.0	0.0	3841.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	8556.0	0.0	8556.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	12397.0	0.0	12397.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	1.1
10°-20°	475.1	3.8
20°-30°	867.5	7.0
30°-40°	1230.3	9.9
40°-50°	1661.3	13.4
50°-60°	2234.9	18.0
60°-70°	2836.6	22.9
70°-80°	2574.4	20.8
80°-90°	375.3	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°	12397.0	100.0
0°-180°	12397.0	100.0



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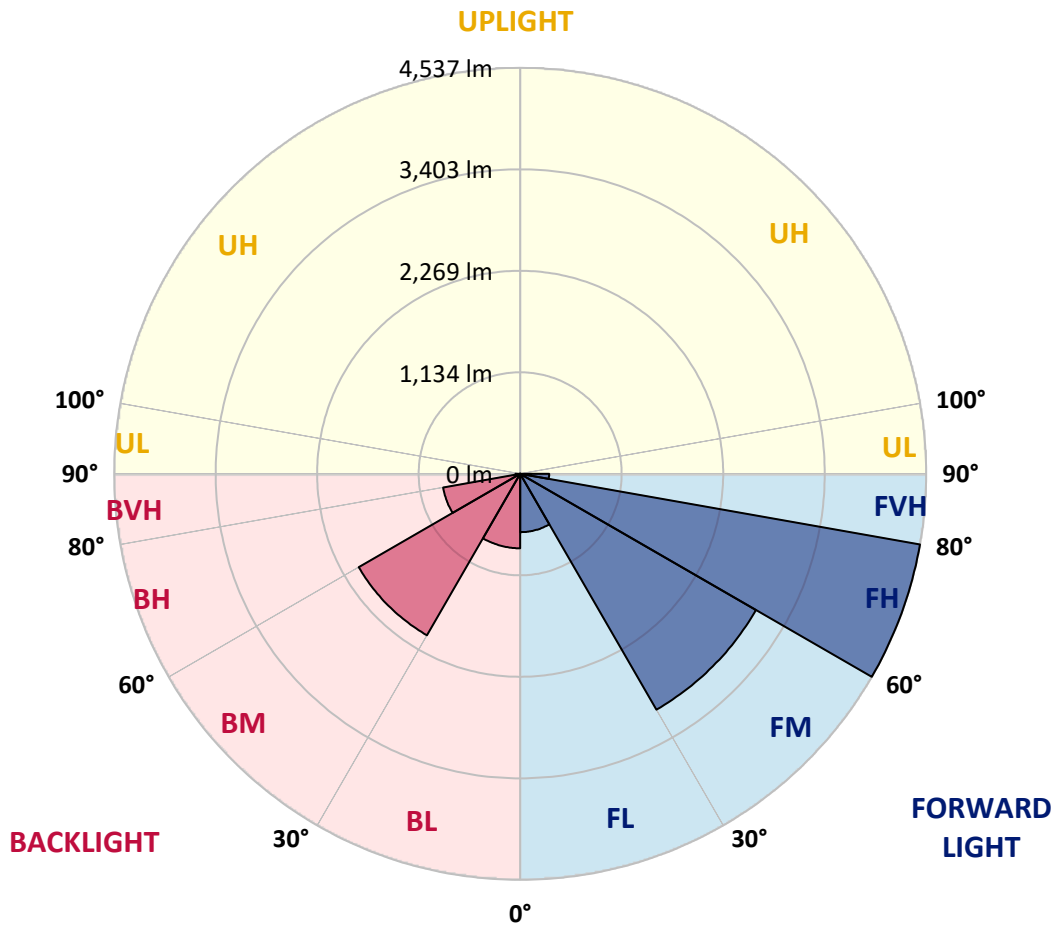
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	652.1	5.3			
FM (30°-60°)	3043.2	24.5			
FH (60°-80°)	4537.1	36.6			G2/5000
FVH (80°-90°)	323.6	2.6			G3/500
BL (0°-30°)	832.0	6.7	B2/1000		
BM (30°-60°)	2083.4	16.8	B2/2500		
BH (60°-80°)	873.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	51.7	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°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1395.9	1403.8	1401.8	1399.2	1399.2	1399.9	1399.2	1403.8	1408.4	1413.0
5°	1410.4	1418.3	1414.3	1411.0	1408.4	1407.8	1405.8	1405.1	1407.8	1413.7
7.5°	1438.7	1446.5	1440.6	1434.7	1429.4	1426.8	1424.2	1420.2	1418.3	1421.6
10°	1470.2	1478.1	1470.9	1460.4	1451.8	1448.5	1445.9	1441.9	1439.3	1441.3
12.5°	1501.8	1509.7	1499.8	1485.3	1474.2	1472.2	1468.9	1467.6	1466.9	1466.3
15°	1531.4	1537.9	1525.4	1508.4	1496.5	1493.2	1489.9	1491.9	1495.2	1499.1
17.5°	1554.4	1561.0	1542.5	1520.2	1509.0	1507.7	1505.7	1512.3	1521.5	1531.4
20°	1575.4	1582.0	1558.3	1528.1	1514.9	1514.9	1515.6	1529.4	1542.5	1557.0
22.5°	1605.0	1610.3	1581.3	1539.9	1520.8	1522.2	1527.4	1541.2	1557.7	1577.4
25°	1649.1	1653.0	1617.5	1562.3	1540.6	1544.5	1549.1	1555.7	1571.5	1594.5
27.5°	1720.1	1723.4	1676.7	1601.7	1568.8	1575.4	1582.0	1577.4	1584.6	1604.3
30°	1820.0	1822.0	1762.8	1663.5	1616.8	1620.1	1621.4	1602.4	1588.6	1604.3
32.5°	1938.4	1937.7	1867.4	1738.5	1671.4	1668.1	1657.0	1619.5	1587.3	1601.1
35°	2121.8	2114.6	2023.8	1843.7	1733.2	1712.8	1686.5	1638.5	1593.8	1597.8
37.5°	2425.6	2403.2	2277.6	2016.0	1825.3	1773.3	1734.5	1669.4	1608.3	1596.5
40°	2768.2	2739.9	2601.8	2252.0	1963.4	1879.9	1817.4	1713.5	1632.0	1602.4
42.5°	3174.5	3134.4	2985.8	2530.1	2138.3	2017.3	1923.2	1769.4	1666.8	1621.4
45°	3673.6	3620.3	3409.9	2843.8	2358.5	2197.4	2071.8	1854.2	1720.1	1658.3
47.5°	4177.9	4191.0	3891.9	3202.8	2622.8	2419.7	2257.9	1981.8	1797.7	1717.4
50°	4713.8	4723.0	4371.2	3600.6	2922.7	2670.8	2467.0	2124.4	1905.5	1801.6
52.5°	5131.9	5133.3	4806.5	4016.8	3235.0	2947.0	2692.5	2287.5	2030.4	1913.4
55°	5393.6	5390.4	5111.6	4410.6	3594.0	3237.0	2942.4	2472.9	2183.0	2044.9
57.5°	5583.7	5573.8	5322.0	4749.3	3976.7	3579.5	3225.1	2683.3	2363.1	2201.4
60°	5656.0	5650.1	5464.7	5041.9	4379.1	3958.3	3551.3	2918.7	2567.6	2386.1
62.5°	5683.6	5694.8	5604.7	5325.3	4809.8	4377.8	3909.6	3200.2	2797.7	2595.2
65°	5780.9	5801.3	5782.9	5696.1	5296.3	4868.9	4385.0	3534.8	3048.9	2819.4
67.5°	5973.6	5994.0	6001.8	6139.9	5890.7	5481.1	4978.1	3951.7	3342.8	3052.2
70°	5969.0	5963.1	6102.4	6493.0	6635.0	6328.6	5777.6	4464.6	3693.3	3245.5
72.5°	5433.1	5385.7	5715.2	6489.1	7254.4	7213.7	6754.0	5126.0	3995.8	3269.2
75°	4076.0	3949.7	4531.6	5848.0	7357.7	7716.0	7374.7	5536.3	3924.1	2888.5
77.5°	1743.1	1616.2	2302.0	4329.1	6585.1	7213.0	6805.3	4830.1	3132.4	1910.1
80°	456.3	455.7	695.7	1962.7	4478.4	5326.6	4673.0	3119.3	1789.8	682.5
82.5°	188.7	184.1	255.8	763.4	2188.2	2989.1	2439.4	1391.3	646.3	184.8
85°	70.4	69.7	124.3	263.7	771.9	1232.9	892.3	355.7	161.1	90.1
87.5°	19.7	19.1	27.0	91.4	188.1	285.4	152.5	58.5	45.4	35.5
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°
1417.6	0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
1420.2	2.5°	1422.2	1425.5	1431.4	1436.0	1441.9	1448.5	1457.7	1463.6	1469.6	1473.5
1423.5	5°	1428.1	1435.4	1450.5	1465.6	1483.4	1499.8	1518.9	1532.7	1543.9	1547.1
1435.4	7.5°	1441.3	1453.1	1478.8	1504.4	1532.7	1559.6	1587.3	1610.9	1630.0	1637.2
1456.4	10°	1464.3	1480.1	1516.2	1552.4	1589.9	1631.3	1666.8	1701.0	1728.0	1739.1
1481.4	12.5°	1493.2	1513.0	1560.3	1610.3	1662.2	1719.4	1765.4	1807.5	1841.1	1856.2
1516.2	15°	1530.7	1556.4	1616.8	1683.9	1760.2	1839.7	1898.3	1944.9	1982.4	2000.8
1552.4	17.5°	1571.5	1605.7	1681.9	1783.2	1892.3	1996.9	2065.3	2099.5	2138.3	2156.0
1585.9	20°	1610.9	1653.0	1762.2	1909.4	2054.8	2165.9	2221.1	2230.3	2232.9	2234.9
1617.5	22.5°	1651.7	1708.2	1862.8	2068.6	2224.4	2301.3	2309.2	2269.8	2214.5	2188.9
1648.4	25°	1696.4	1771.4	1994.3	2244.1	2370.4	2379.6	2319.1	2223.1	2118.5	2070.5
1673.4	27.5°	1739.8	1844.3	2152.1	2411.8	2475.6	2394.7	2264.5	2128.4	2002.1	1951.5
1691.1	30°	1783.2	1927.8	2326.3	2558.4	2523.6	2357.2	2178.4	2026.5	1899.6	1846.3
1706.9	32.5°	1827.2	2025.2	2526.8	2664.3	2515.0	2277.6	2071.2	1912.1	1800.3	1744.4
1720.7	35°	1877.2	2144.8	2716.9	2722.1	2457.8	2160.6	1929.8	1775.3	1678.0	1633.3
1737.2	37.5°	1942.3	2296.7	2884.5	2736.6	2357.9	1989.0	1754.3	1613.6	1533.3	1513.0
1761.5	40°	2023.2	2479.5	3012.8	2713.6	2209.9	1780.6	1562.3	1449.8	1404.5	1409.1
1794.4	42.5°	2128.4	2684.0	3102.8	2654.4	2004.1	1565.6	1393.9	1344.0	1365.7	1384.1
1843.7	45°	2265.2	2896.4	3158.7	2553.8	1771.4	1383.4	1294.7	1306.5	1322.9	1324.9
1923.2	47.5°	2440.1	3111.4	3195.5	2401.9	1534.0	1255.2	1231.5	1234.2	1230.9	1217.1
2042.3	50°	2658.4	3320.5	3228.4	2200.7	1332.1	1175.0	1143.4	1134.2	1088.9	1044.1
2200.7	52.5°	2906.9	3512.5	3242.2	1950.9	1175.0	1107.9	1056.6	998.8	914.0	900.1
2399.9	55°	3183.1	3690.0	3206.7	1643.8	1042.8	1021.8	944.2	874.5	865.3	853.5
2662.3	57.5°	3513.1	3881.3	3134.4	1301.2	907.4	921.2	845.6	853.5	837.0	818.6
2999.6	60°	3874.1	4079.3	3007.5	988.9	767.3	795.6	819.9	819.3	814.7	799.5
3355.3	62.5°	4198.9	4209.4	2757.6	757.5	644.4	698.3	764.7	764.0	760.1	751.5
3726.8	65°	4392.2	4189.7	2340.8	596.4	543.1	618.1	689.7	695.0	695.7	695.0
4006.3	67.5°	4358.0	3958.9	1768.7	474.7	459.6	536.5	615.4	622.7	627.9	629.2
4041.8	70°	3971.4	3452.0	1153.3	378.7	385.3	464.9	545.1	552.3	556.9	562.2
3507.2	72.5°	3095.6	2538.0	660.2	306.4	320.2	403.1	475.4	483.9	486.6	496.4
2440.7	75°	1886.4	1492.6	356.4	241.3	263.0	344.5	406.3	416.2	420.8	432.6
1198.7	77.5°	896.9	646.3	203.2	188.1	211.7	281.4	343.2	354.4	341.9	348.5
330.7	80°	303.1	240.0	128.2	143.3	161.7	219.6	274.8	286.0	259.7	258.4
109.8	82.5°	105.9	97.3	81.5	95.3	104.5	157.1	207.8	222.2	193.3	192.7
49.3	85°	41.4	39.5	45.4	51.9	62.5	96.7	136.8	144.0	119.0	96.0
14.5	87.5°	8.5	9.2	11.2	11.8	19.1	33.5	49.3	60.5	48.0	40.8
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>
1417.6
1470.9
1548.5
1637.9
1739.8
1856.2
1999.5
2155.4
2240.2
2196.1
2077.8
1957.4
1852.2
1751.6
1643.1
1527.4
1424.8
1401.2
1338.1
1227.6
1050.1
904.7
855.4
815.3
794.3
748.3
695.0
630.6
564.8
500.4
434.0
343.2
255.8
183.4
94.7
37.5
0.0

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