

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: P946140

Luminaire Tested: **GALN-SB1D-850-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946140  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-850-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

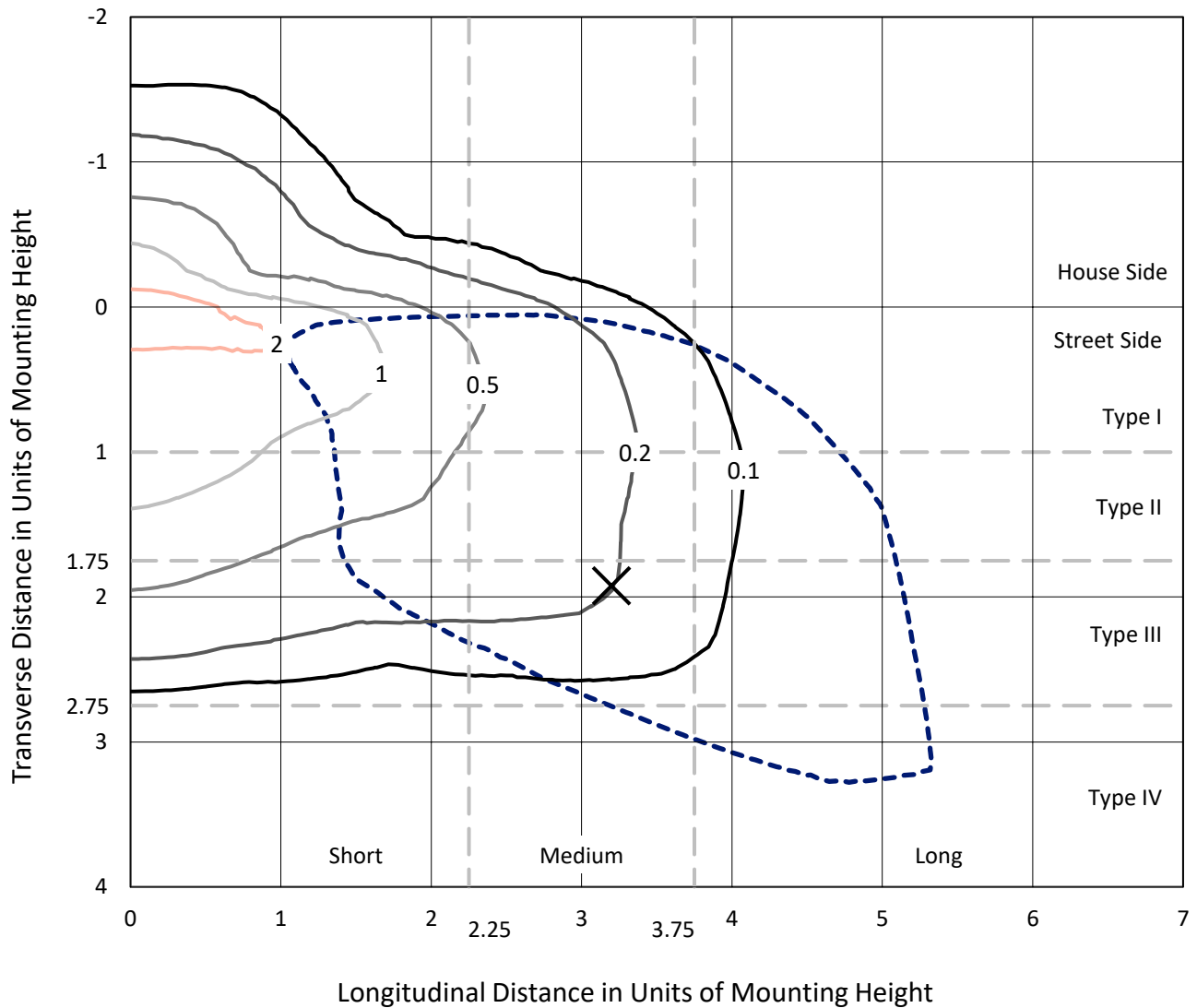
Lumens per Lamp: N/A  
Luminaire Lumens: 9516 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

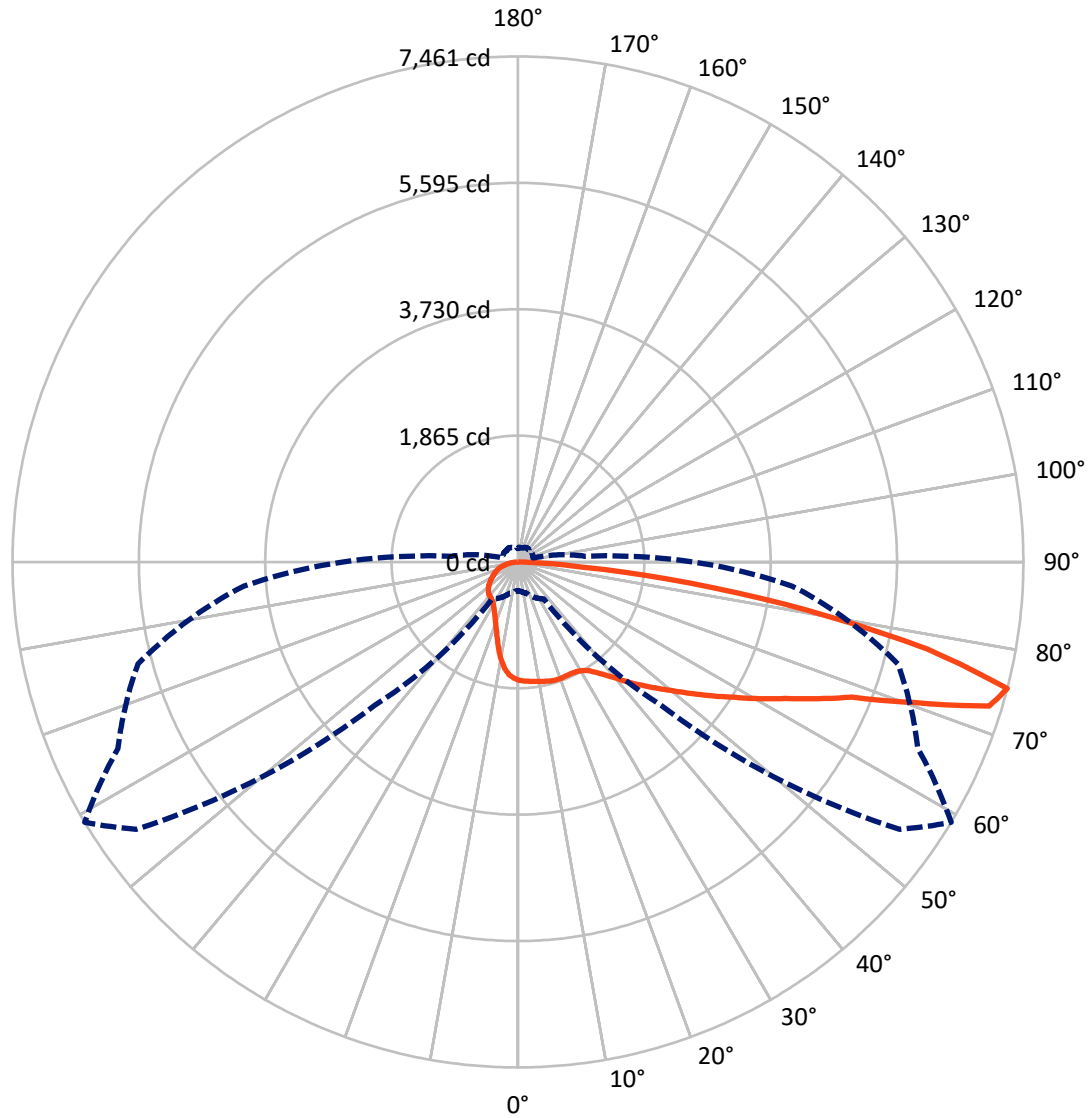
✕ Max cd  
 - - - 1/2 Max cd



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 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1784.8	0.0	1784.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	7731.2	0.0	7731.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	9516.0	0.0	9516.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.6	1.6
10°-20°	400.3	4.2
20°-30°	608.0	6.4
30°-40°	903.8	9.5
40°-50°	1344.2	14.1
50°-60°	1824.6	19.2
60°-70°	2227.5	23.4
70°-80°	1748.1	18.4
80°-90°	302.8	3.2
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°	9516.0	100.0
0°-180°	9516.0	100.0

**Coefficient of Utilization**



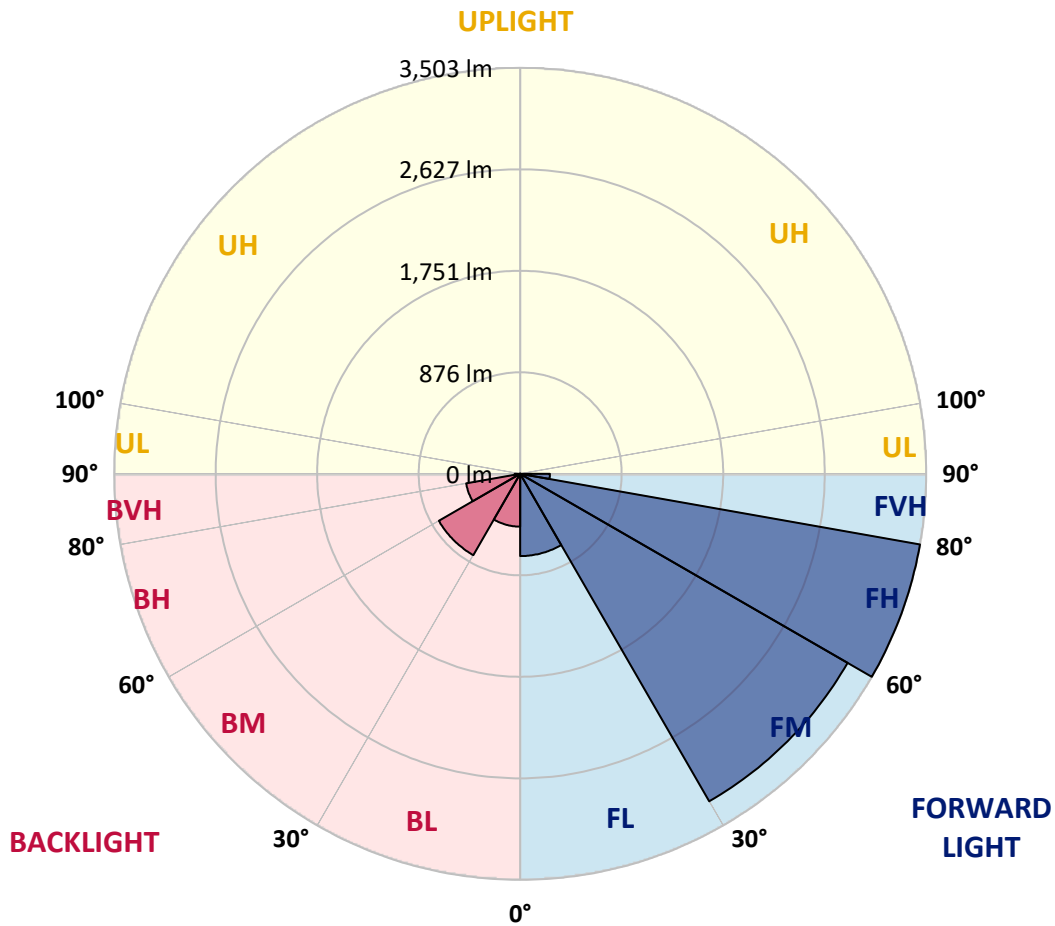
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	709.5	7.5			
FM (30°-60°)	3262.5	34.3			
FH (60°-80°)	3502.7	36.8			G2/5000
FVH (80°-90°)	256.5	2.7			G3/500
BL (0°-30°)	455.5	4.8	B1/500		
BM (30°-60°)	810.1	8.5	B1/1000		
BH (60°-80°)	472.9	5.0	B1/500		G1/500
BVH (80°-90°)	46.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6
2.5°	1761.5	1755.3	1761.5	1758.9	1757.9	1755.9	1756.4	1760.0	1757.9	1760.5
5°	1749.7	1746.1	1752.3	1750.7	1757.4	1758.4	1765.1	1769.2	1771.7	1772.2
7.5°	1730.3	1726.7	1735.4	1742.5	1756.9	1761.0	1774.8	1781.5	1785.0	1791.2
10°	1659.1	1657.6	1679.1	1706.2	1740.0	1761.0	1782.0	1793.2	1798.9	1815.2
12.5°	1533.2	1535.2	1563.4	1615.6	1683.2	1750.7	1790.2	1806.5	1815.2	1835.7
15°	1412.9	1412.4	1443.1	1498.9	1593.6	1705.7	1794.2	1822.4	1837.2	1867.5
17.5°	1343.3	1341.2	1362.7	1405.2	1493.2	1636.6	1784.0	1831.1	1862.8	1900.7
20°	1330.5	1326.4	1337.6	1358.6	1421.1	1560.8	1757.4	1831.1	1883.3	1932.5
22.5°	1377.0	1370.4	1365.8	1363.2	1390.9	1498.4	1727.2	1825.0	1913.5	1978.0
25°	1470.7	1460.5	1436.9	1413.9	1405.7	1470.2	1700.6	1823.4	1958.6	2039.5
27.5°	1622.2	1609.4	1561.8	1506.6	1456.9	1484.5	1688.8	1832.6	2008.2	2104.5
30°	1810.1	1796.3	1736.4	1651.4	1562.4	1537.8	1703.6	1859.8	2071.7	2191.0
32.5°	1978.5	1963.2	1912.0	1825.5	1705.2	1629.9	1750.7	1911.5	2171.5	2311.3
35°	2128.0	2110.1	2064.0	1984.2	1880.2	1759.4	1835.7	2003.1	2313.3	2506.8
37.5°	2274.4	2253.4	2203.3	2118.8	2046.1	1932.0	1952.9	2120.8	2501.7	2744.4
40°	2438.2	2408.0	2347.1	2263.7	2193.0	2134.2	2107.0	2265.2	2693.2	3009.5
42.5°	2596.9	2568.3	2495.6	2424.4	2335.9	2319.0	2285.7	2434.1	2902.5	3300.8
45°	2767.9	2733.6	2645.6	2555.5	2499.7	2441.8	2458.7	2603.1	3107.8	3597.7
47.5°	2928.1	2889.7	2785.8	2685.5	2654.8	2545.2	2617.4	2788.9	3321.3	3898.7
50°	3014.6	2976.8	2890.2	2799.6	2775.6	2672.7	2789.4	2993.1	3545.0	4198.7
52.5°	3086.8	3045.9	2932.7	2882.6	2875.4	2811.4	3001.3	3226.6	3768.7	4463.9
55°	3163.6	3118.1	2973.7	2928.6	2961.4	2967.0	3252.7	3491.2	4005.2	4722.4
57.5°	3252.2	3194.3	3013.1	2967.5	3045.4	3149.3	3541.4	3765.6	4237.6	4962.0
60°	3335.6	3277.3	3088.9	3029.5	3136.0	3360.7	3872.6	4097.8	4500.7	5175.4
62.5°	3352.0	3303.9	3149.3	3148.8	3258.8	3607.4	4264.7	4433.1	4730.6	5386.3
65°	3068.4	3038.2	2946.6	3144.2	3434.9	3962.7	4701.4	4862.1	5022.9	5570.6
67.5°	2335.3	2339.4	2332.8	2714.2	3292.6	4473.1	5333.6	5321.3	5383.8	5777.4
70°	1067.8	1091.9	1248.6	1873.6	2637.9	4531.9	6378.9	6219.7	5836.8	6045.2
72.5°	576.9	595.4	659.3	907.6	1585.9	4029.3	7160.1	7273.2	6439.3	6225.4
75°	423.4	433.6	478.1	576.9	666.0	2994.7	6880.1	7460.6	6514.6	5805.1
77.5°	316.9	321.5	357.8	457.1	340.9	1578.7	5497.4	6178.8	5576.8	4769.5
80°	229.8	235.0	262.1	343.0	239.1	577.4	3774.8	4336.9	3819.4	3040.2
82.5°	158.7	160.7	172.5	233.4	166.9	224.2	2141.8	2543.2	2132.1	1066.8
85°	95.7	98.3	103.4	136.2	94.7	106.5	924.5	956.2	637.3	254.9
87.5°	39.4	42.0	46.1	57.3	37.4	29.7	152.5	191.5	119.3	74.7
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°
1746.6	0°	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6
1751.8	2.5°	1749.2	1745.6	1735.9	1722.6	1710.3	1694.9	1688.3	1682.7	1677.5	1667.8
1765.6	5°	1760.0	1750.2	1724.1	1690.3	1651.9	1610.0	1569.0	1540.9	1516.8	1498.9
1781.5	7.5°	1776.3	1757.9	1710.3	1641.2	1553.1	1463.0	1381.6	1323.8	1280.3	1264.4
1804.0	10°	1793.2	1771.2	1688.3	1566.4	1414.4	1275.7	1167.7	1108.3	1073.5	1062.2
1830.6	12.5°	1813.2	1780.9	1654.0	1462.5	1259.3	1107.3	1013.1	978.3	960.3	954.2
1863.4	15°	1842.4	1789.1	1602.3	1332.5	1111.4	984.4	923.5	899.4	890.2	889.7
1897.1	17.5°	1864.4	1790.7	1521.9	1193.3	997.7	910.2	860.0	850.8	856.9	866.2
1930.4	20°	1889.0	1776.8	1416.5	1066.3	917.9	845.2	824.2	830.3	845.2	858.5
1974.4	22.5°	1906.4	1751.8	1289.0	967.5	848.7	807.8	806.8	819.6	827.8	834.4
2026.1	25°	1921.7	1709.3	1153.8	884.6	791.9	785.3	796.5	792.4	786.8	792.4
2077.8	27.5°	1933.0	1642.2	1033.0	811.9	752.0	769.9	763.3	754.0	753.5	756.6
2138.8	30°	1929.4	1552.6	933.7	742.8	723.8	741.2	725.4	723.8	722.3	723.8
2230.4	32.5°	1929.4	1450.8	857.5	695.2	705.9	699.3	697.7	694.2	688.0	687.5
2354.8	35°	1940.1	1348.9	791.9	669.6	691.1	675.2	676.2	667.5	654.7	648.6
2519.6	37.5°	1962.2	1267.0	726.9	657.3	665.0	664.5	660.4	645.5	623.0	603.5
2725.4	40°	2015.4	1242.9	682.4	651.7	652.7	658.8	648.1	619.4	568.2	536.5
2934.3	42.5°	2098.8	1283.4	672.7	637.8	644.5	650.6	629.7	563.1	526.8	507.8
3153.4	45°	2204.8	1354.0	693.6	617.9	625.0	635.8	573.3	541.6	525.2	525.7
3370.4	47.5°	2338.9	1428.2	732.5	600.5	596.9	603.0	536.0	516.5	494.0	499.6
3578.8	50°	2494.0	1503.5	769.4	576.9	565.7	545.7	511.9	493.5	464.8	451.5
3780.0	52.5°	2661.9	1576.2	784.2	548.3	531.9	508.8	495.5	473.0	438.2	416.2
3969.9	55°	2821.1	1642.2	767.9	514.0	498.1	480.2	478.1	464.3	426.9	396.2
4138.8	57.5°	2971.6	1697.5	726.9	479.1	463.8	453.0	466.9	460.2	413.1	373.7
4298.5	60°	3099.1	1735.4	667.5	443.8	433.1	427.4	448.4	446.4	393.7	349.6
4441.9	62.5°	3200.5	1750.2	602.0	410.0	407.5	397.2	422.8	422.8	369.1	326.1
4567.8	65°	3279.8	1735.9	535.5	376.8	381.9	366.5	391.6	388.5	343.0	305.1
4712.7	67.5°	3349.9	1688.8	461.7	344.0	355.8	336.3	358.8	351.7	314.3	284.1
4838.1	70°	3381.2	1579.2	377.8	311.2	325.6	306.6	326.1	312.8	282.1	261.6
4700.4	72.5°	3130.3	1312.5	297.4	276.9	289.2	273.9	290.8	275.4	247.3	238.0
4058.9	75°	2589.8	984.9	228.8	239.6	248.8	237.0	248.3	237.0	211.4	218.1
2998.3	77.5°	1880.8	665.0	175.1	200.2	204.3	198.1	207.8	195.0	172.0	170.5
1494.3	80°	935.3	389.6	137.2	158.2	156.6	152.5	163.8	157.7	138.2	146.4
403.4	82.5°	270.8	166.9	99.8	111.1	108.0	109.0	117.2	120.3	180.2	178.7
125.4	85°	85.0	65.5	59.9	61.9	58.9	60.4	69.1	137.2	127.0	74.2
38.9	87.5°	22.0	22.5	14.8	15.9	16.4	19.5	22.0	83.4	39.9	26.1
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>
1746.6
1663.2
1484.0
1236.8
1044.8
955.7
891.7
869.7
863.1
838.0
796.0
761.7
729.5
694.2
654.7
610.2
540.6
507.8
528.3
514.0
455.1
415.7
396.2
371.6
348.1
324.6
303.1
282.1
257.5
230.4
199.1
162.8
144.9
182.8
80.4
27.6
0.0

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