

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: P947870

Luminaire Tested: **GALN-SB3A-830-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947870  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3A-830-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

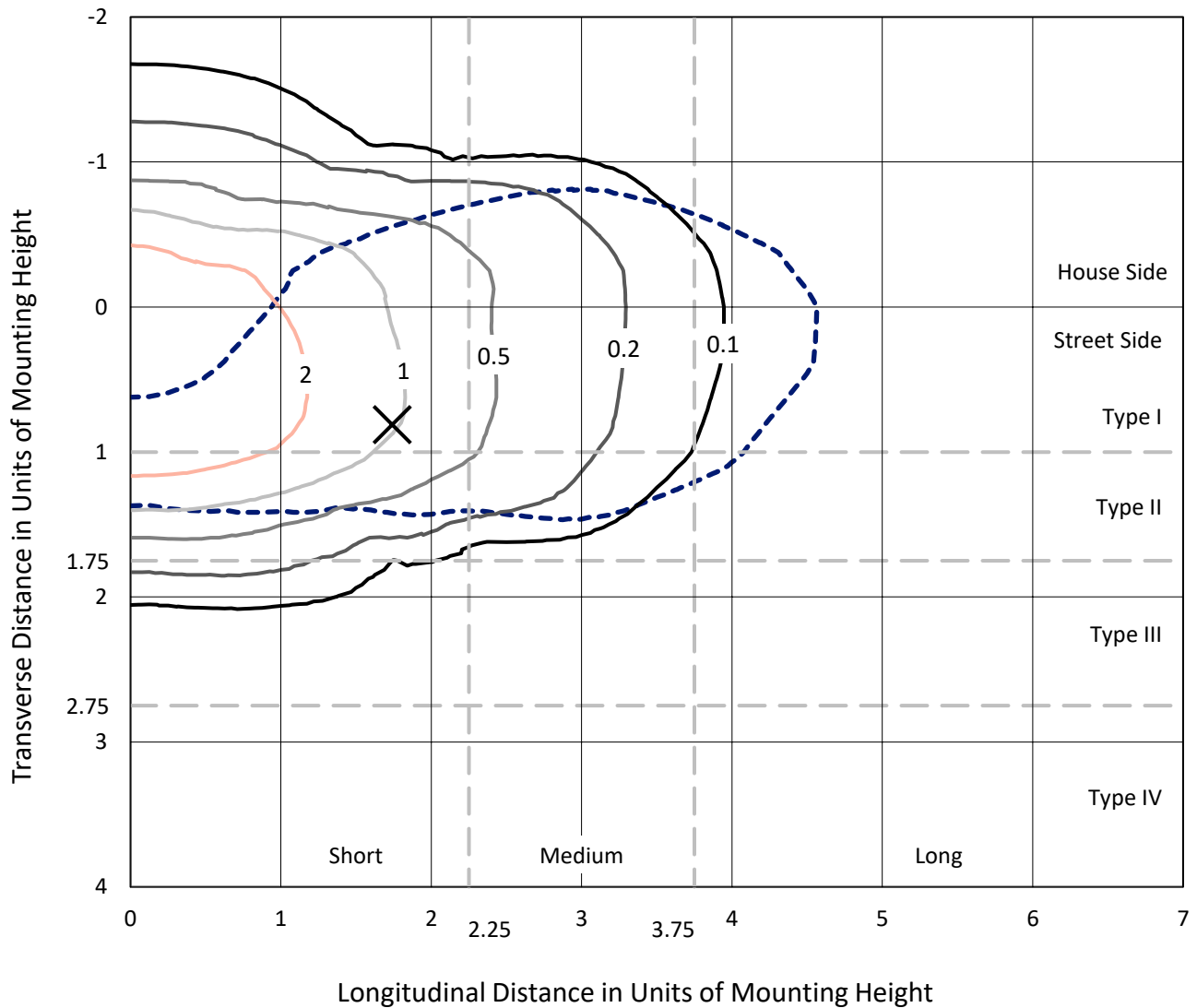
Lumens per Lamp: N/A  
Luminaire Lumens: 12256 lumens  
Efficiency: N/A  
Efficacy: 144.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

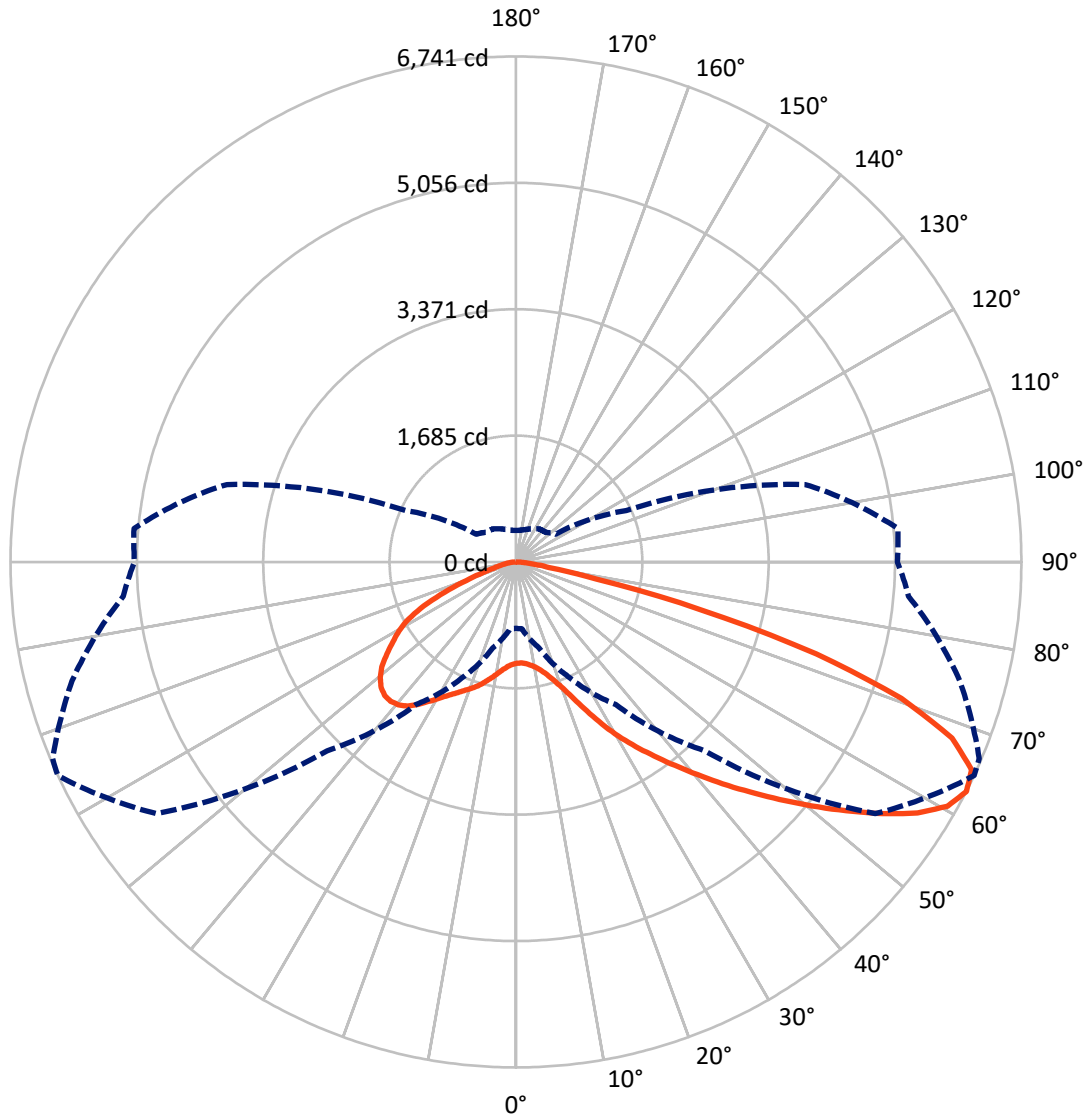
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3867.4	0.0	3867.4
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	8388.5	0.0	8388.5
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	12256.0	0.0	12256.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.7	1.1
10°-20°	456.6	3.7
20°-30°	925.8	7.6
30°-40°	1602.1	13.1
40°-50°	2424.5	19.8
50°-60°	2842.6	23.2
60°-70°	2383.2	19.4
70°-80°	1315.7	10.7
80°-90°	170.9	1.4
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°	12256.0	100.0
0°-180°	12256.0	100.0



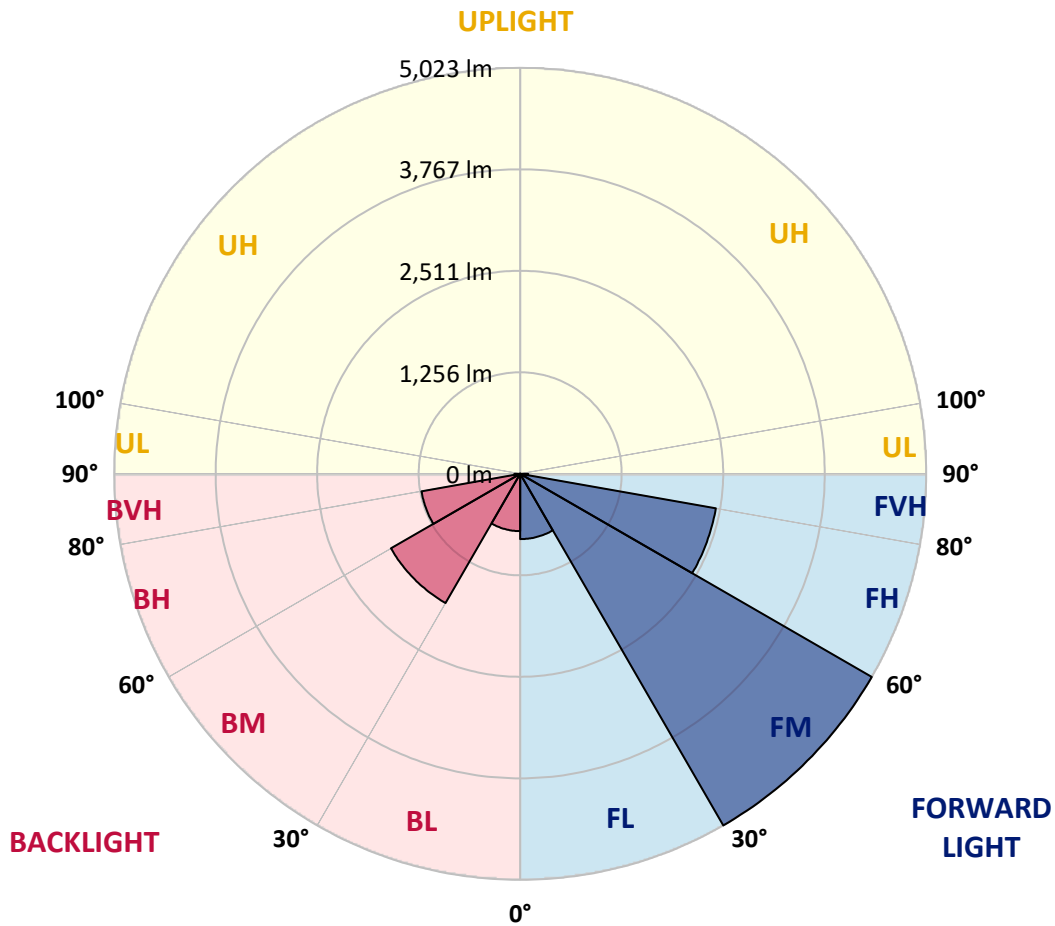
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	807.8	6.6			
FM (30°-60°)	5022.9	41.0			
FH (60°-80°)	2458.2	20.1			G2/5000
FVH (80°-90°)	99.6	0.8			G1/100
BL (0°-30°)	709.2	5.8	B2/1000		
BM (30°-60°)	1846.3	15.1	B2/2500		
BH (60°-80°)	1240.6	10.1	B3/2500		G3/2500
BVH (80°-90°)	71.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6
2.5°	1341.7	1337.8	1341.0	1341.0	1342.3	1341.7	1346.1	1347.4	1349.3	1353.1
5°	1328.3	1327.7	1333.4	1338.5	1343.6	1348.0	1353.7	1362.0	1363.3	1367.7
7.5°	1323.9	1320.0	1328.9	1335.3	1347.4	1358.2	1373.4	1387.4	1393.2	1395.1
10°	1358.2	1351.8	1360.1	1363.9	1374.1	1384.9	1402.7	1425.0	1431.3	1438.9
12.5°	1416.7	1409.7	1421.8	1427.5	1437.0	1446.6	1458.7	1480.3	1483.5	1497.4
15°	1496.8	1488.5	1496.2	1503.2	1519.1	1528.0	1540.0	1561.0	1561.0	1571.8
17.5°	1605.5	1594.7	1600.4	1603.0	1613.2	1626.5	1646.9	1665.3	1674.8	1671.0
20°	1767.7	1754.3	1754.3	1741.6	1737.8	1748.6	1775.3	1800.7	1810.9	1791.2
22.5°	2011.2	1992.1	1981.3	1938.1	1920.9	1922.2	1948.9	1980.1	1988.3	1953.3
25°	2320.9	2291.0	2276.4	2212.8	2174.0	2140.3	2161.3	2201.3	2212.8	2169.5
27.5°	2630.5	2632.4	2618.5	2542.2	2477.9	2416.3	2405.4	2447.4	2459.5	2410.5
30°	3064.8	3019.7	2993.0	2901.4	2809.8	2723.4	2678.9	2696.0	2699.2	2640.7
32.5°	3439.3	3427.9	3370.7	3290.6	3172.9	3037.5	2963.1	2935.7	2930.7	2847.4
35°	3866.0	3859.6	3799.2	3703.9	3576.7	3388.5	3254.3	3176.1	3169.7	3052.7
37.5°	4299.7	4299.7	4240.5	4136.2	4004.6	3769.4	3565.2	3441.3	3420.9	3268.3
40°	4645.6	4624.6	4635.4	4591.5	4440.8	4190.9	3910.5	3730.6	3703.2	3520.1
42.5°	4842.0	4835.0	4899.9	4948.9	4887.2	4687.5	4290.8	4044.0	4005.9	3797.3
45°	4885.9	4878.3	4994.0	5173.3	5259.8	5177.8	4704.1	4374.1	4327.6	4087.3
47.5°	4784.8	4769.6	4939.3	5222.3	5499.5	5643.9	5151.7	4732.0	4664.6	4369.6
50°	4480.9	4466.3	4723.1	5098.9	5580.3	5960.5	5637.5	5111.6	5008.6	4672.3
52.5°	3820.2	3827.2	4229.7	4746.0	5474.1	6157.6	6055.9	5511.6	5387.6	4981.9
55°	2975.8	2991.1	3485.8	4054.2	5049.3	6127.7	6341.4	5923.6	5800.3	5273.2
57.5°	2130.8	2198.2	2661.7	3224.4	4233.5	5654.0	6403.7	6315.3	6195.8	5591.1
60°	1381.1	1393.2	1870.1	2437.2	3223.8	4812.2	6277.2	6612.3	6518.8	5915.4
62.5°	885.1	893.4	1184.0	1704.7	2320.2	3560.2	5851.1	6741.3	6712.7	6129.7
65°	650.5	644.1	795.5	1126.7	1562.9	2195.6	5023.9	6679.0	6735.6	6263.8
67.5°	543.0	534.1	608.5	780.2	1151.5	1246.9	3717.2	6274.0	6481.3	6248.6
70°	494.7	487.1	532.2	579.3	898.5	834.9	1873.9	5454.4	5773.6	6075.0
72.5°	419.0	405.7	467.4	514.4	698.8	640.3	774.5	4189.7	4578.8	5518.6
75°	324.9	316.0	368.8	452.7	525.2	499.8	489.6	2544.1	2968.8	4267.9
77.5°	257.5	245.4	293.8	352.9	472.4	377.1	356.7	1095.6	1516.5	2724.6
80°	193.9	183.1	223.2	279.1	363.1	284.2	230.8	447.0	571.6	1380.4
82.5°	138.0	128.4	155.8	204.7	244.2	255.0	141.8	250.5	281.7	532.2
85°	88.4	82.7	104.3	128.4	155.1	164.1	86.5	131.0	143.7	219.4
87.5°	48.3	39.4	56.0	59.8	71.9	65.5	41.3	47.7	51.5	79.5
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°
1350.6	0°	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6
1353.1	2.5°	1355.6	1357.6	1363.9	1365.8	1370.3	1376.0	1379.8	1383.6	1383.6	1387.4
1373.4	5°	1374.1	1378.5	1391.9	1398.9	1410.3	1421.8	1428.8	1437.0	1442.1	1444.7
1405.9	7.5°	1409.7	1416.7	1435.8	1447.8	1467.6	1483.5	1494.3	1505.7	1508.3	1515.2
1451.0	10°	1458.0	1466.3	1487.9	1510.8	1534.3	1554.0	1564.2	1572.5	1575.7	1576.9
1508.9	12.5°	1513.3	1525.4	1553.4	1581.4	1606.2	1623.3	1625.9	1624.0	1615.1	1607.4
1580.1	15°	1581.4	1592.2	1623.3	1653.9	1678.0	1681.2	1665.3	1655.1	1644.3	1642.4
1659.6	17.5°	1662.8	1668.5	1697.1	1727.0	1728.9	1718.1	1694.6	1685.0	1674.8	1667.9
1763.2	20°	1757.5	1755.6	1775.9	1788.7	1775.3	1742.2	1706.6	1690.7	1680.6	1672.3
1890.4	22.5°	1870.7	1856.1	1853.5	1850.3	1814.7	1745.4	1697.1	1676.8	1660.9	1649.4
2067.8	25°	2035.4	1979.4	1940.6	1919.0	1838.9	1728.3	1666.6	1621.4	1591.5	1571.8
2284.6	27.5°	2241.4	2147.3	2049.4	1996.6	1838.9	1693.3	1592.8	1519.7	1470.7	1450.4
2494.5	30°	2437.9	2339.3	2195.0	2090.1	1834.4	1636.1	1473.9	1372.2	1315.0	1294.6
2673.8	32.5°	2605.7	2498.3	2349.5	2192.4	1823.6	1543.2	1326.4	1213.8	1158.5	1134.4
2851.2	35°	2761.5	2647.1	2504.6	2305.0	1795.0	1407.1	1164.3	1078.4	1016.7	977.9
3031.8	37.5°	2921.1	2785.0	2651.5	2406.7	1743.5	1248.2	1039.6	966.5	894.0	841.9
3223.8	40°	3094.7	2931.9	2808.6	2467.1	1658.9	1096.9	943.0	876.2	799.3	744.0
3445.1	42.5°	3297.5	3108.1	2983.4	2498.3	1543.2	989.4	880.0	814.5	742.0	696.9
3682.2	45°	3509.3	3302.0	3143.0	2497.6	1414.1	939.2	859.7	794.8	714.7	667.6
3925.8	47.5°	3731.2	3504.8	3281.0	2456.9	1302.2	946.2	848.2	752.2	663.8	618.1
4171.9	50°	3953.8	3726.8	3414.5	2380.6	1254.5	930.9	805.6	692.4	588.2	546.8
4402.7	52.5°	4174.4	3962.7	3529.6	2271.9	1206.2	874.3	750.9	614.9	557.0	528.4
4641.1	55°	4396.3	4196.0	3654.9	2113.6	1085.4	808.2	659.4	585.6	532.2	506.1
4874.5	57.5°	4618.9	4465.6	3773.8	1955.3	933.4	726.8	609.2	550.0	507.4	485.2
5069.7	60°	4850.3	4774.0	3896.5	1809.6	783.4	622.5	572.3	521.4	478.2	453.4
5257.3	62.5°	5088.8	5113.6	3992.5	1622.1	645.4	558.9	539.2	487.1	445.1	421.6
5412.4	65°	5329.1	5441.0	4055.5	1362.0	523.3	498.5	503.6	449.6	406.9	386.6
5526.2	67.5°	5510.3	5676.9	4037.7	1030.7	429.2	441.3	459.1	410.1	370.1	354.2
5507.8	70°	5530.7	5648.9	3862.2	705.8	359.3	385.3	409.5	371.3	330.0	318.6
5248.4	72.5°	5259.8	5267.4	3373.2	461.0	303.9	338.3	357.4	331.9	291.9	280.4
4591.5	75°	4549.5	4356.2	2476.7	303.9	254.3	290.6	308.4	290.6	251.8	254.3
3435.5	77.5°	3447.0	3085.2	1503.8	216.2	212.4	244.2	268.3	255.6	222.5	249.9
1727.6	80°	1775.9	1669.1	670.8	161.5	167.9	195.2	220.6	204.1	176.1	167.9
386.0	82.5°	406.9	473.1	264.5	115.7	121.4	140.5	168.5	153.2	126.5	106.8
160.9	85°	142.4	155.8	117.0	72.5	71.2	87.7	114.5	102.4	85.8	68.7
68.0	87.5°	45.1	59.1	43.9	29.2	30.5	39.4	52.8	48.3	40.1	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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180°  
1350.6  
1387.4  
1445.9  
1512.7  
1573.7  
1607.4  
1642.4  
1668.5  
1672.9  
1653.2  
1579.5  
1460.6  
1306.7  
1146.4  
990.7  
855.9  
754.8  
705.8  
675.3  
624.4  
549.4  
528.4  
503.6  
481.3  
451.5  
420.9  
386.0  
354.8  
319.2  
279.8  
245.4  
220.0  
153.2  
105.6  
72.5  
27.3  
0.0

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