

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: P947912

Luminaire Tested: **GALN-SB3A-840-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947912  
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-840-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

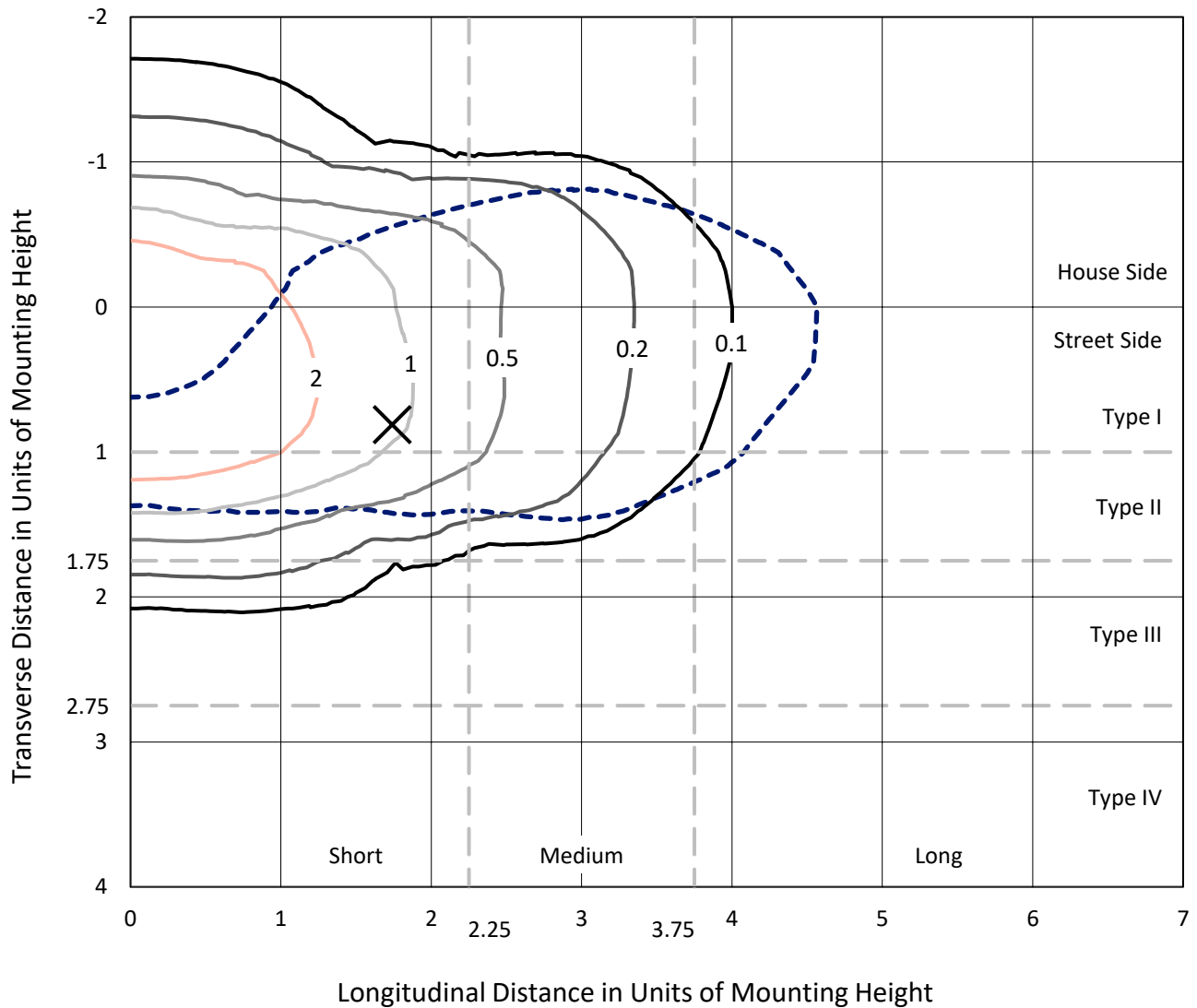
Lumens per Lamp: N/A  
Luminaire Lumens: 13046 lumens  
Efficiency: N/A  
Efficacy: 154.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

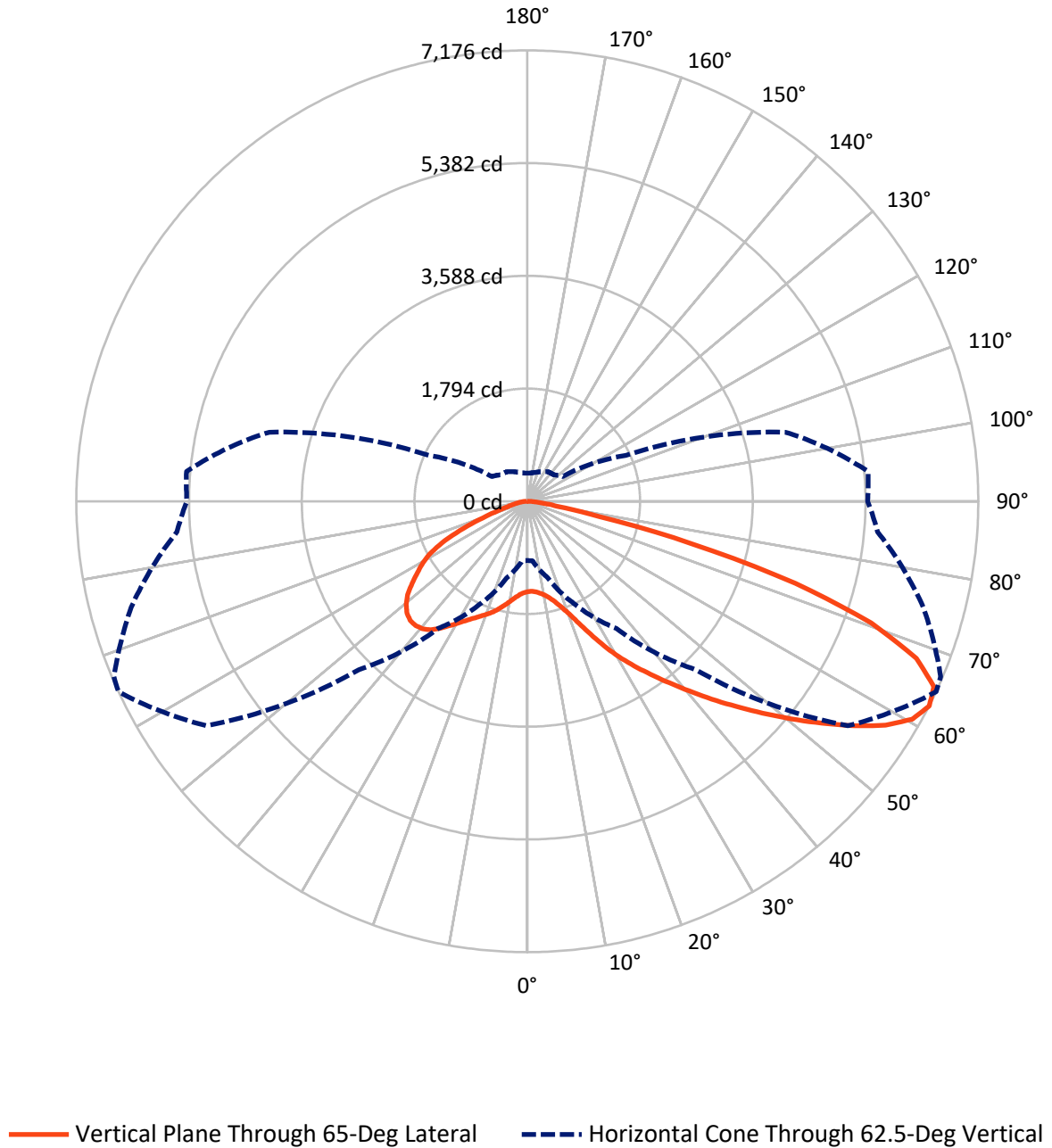
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4116.8	0.0	4116.8
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	8929.3	0.0	8929.3
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	13046.0	0.0	13046.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.3	1.1
10°-20°	486.0	3.7
20°-30°	985.5	7.6
30°-40°	1705.4	13.1
40°-50°	2580.8	19.8
50°-60°	3025.8	23.2
60°-70°	2536.8	19.4
70°-80°	1400.5	10.7
80°-90°	181.9	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°	13046.0	100.0
0°-180°	13046.0	100.0

**Coefficient of Utilization**



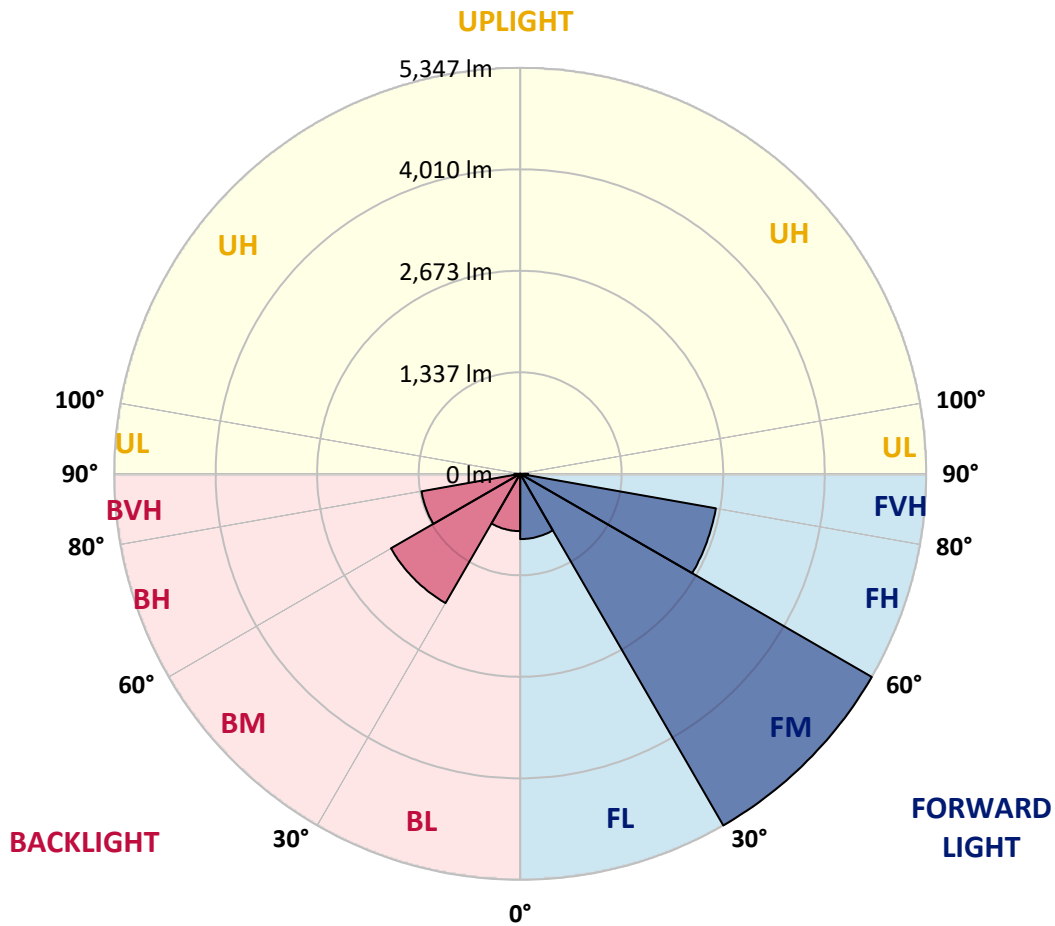
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	859.9	6.6			
FM (30°-60°)	5346.7	41.0			
FH (60°-80°)	2616.6	20.1			G2/5000
FVH (80°-90°)	106.0	0.8			G2/225
BL (0°-30°)	755.0	5.8	B2/1000		
BM (30°-60°)	1965.3	15.1	B2/2500		
BH (60°-80°)	1320.6	10.1	B3/2500		G3/2500
BVH (80°-90°)	75.9	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°	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6
2.5°	1428.1	1424.1	1427.5	1427.5	1428.8	1428.1	1432.9	1434.2	1436.3	1440.3
5°	1413.9	1413.2	1419.3	1424.8	1430.2	1434.9	1441.0	1449.8	1451.1	1455.9
7.5°	1409.2	1405.1	1414.6	1421.4	1434.2	1445.7	1462.0	1476.9	1483.0	1485.0
10°	1445.7	1439.0	1447.8	1451.8	1462.7	1474.2	1493.1	1516.8	1523.6	1531.7
12.5°	1508.0	1500.6	1513.4	1519.5	1529.7	1539.8	1552.7	1575.7	1579.1	1594.0
15°	1593.3	1584.5	1592.6	1600.1	1617.0	1626.5	1639.3	1661.6	1661.6	1673.2
17.5°	1709.0	1697.5	1703.6	1706.3	1717.1	1731.4	1753.0	1772.6	1782.8	1778.7
20°	1881.6	1867.4	1867.4	1853.9	1849.8	1861.3	1889.7	1916.8	1927.6	1906.7
22.5°	2140.9	2120.5	2109.0	2063.0	2044.7	2046.1	2074.5	2107.7	2116.5	2079.3
25°	2470.5	2438.7	2423.1	2355.4	2314.1	2278.3	2300.6	2343.2	2355.4	2309.4
27.5°	2800.1	2802.1	2787.2	2706.0	2637.7	2572.0	2560.5	2605.2	2618.0	2565.9
30°	3262.4	3214.3	3185.9	3088.4	2991.0	2898.9	2851.5	2869.8	2873.2	2810.9
32.5°	3661.0	3648.9	3587.9	3502.7	3377.4	3233.3	3154.1	3125.0	3119.6	3030.9
35°	4115.2	4108.4	4044.1	3942.6	3807.2	3606.9	3464.1	3380.8	3374.1	3249.5
37.5°	4576.8	4576.8	4513.9	4402.9	4262.8	4012.3	3795.1	3663.1	3641.4	3479.0
40°	4945.0	4922.7	4934.2	4887.5	4727.1	4461.1	4162.6	3971.0	3941.9	3747.0
42.5°	5154.2	5146.7	5215.7	5267.9	5202.2	4989.7	4567.3	4304.7	4264.1	4042.1
45°	5200.9	5192.7	5315.9	5506.8	5598.8	5511.5	5007.3	4656.0	4606.6	4350.7
47.5°	5093.2	5077.0	5257.7	5558.9	5854.0	6007.7	5483.8	5037.1	4965.3	4651.3
50°	4769.7	4754.1	5027.6	5427.6	5940.0	6344.7	6000.9	5441.1	5331.5	4973.4
52.5°	4066.5	4073.9	4502.4	5051.9	5826.9	6554.5	6446.2	5866.9	5734.9	5303.1
55°	3167.6	3183.9	3710.4	4315.5	5374.8	6522.7	6750.1	6305.5	6174.2	5613.1
57.5°	2268.1	2339.8	2833.3	3432.3	4506.4	6018.5	6816.5	6722.4	6595.1	5951.5
60°	1470.1	1483.0	1990.6	2594.3	3431.6	5122.3	6681.8	7038.5	6939.0	6296.7
62.5°	942.2	951.0	1260.3	1814.6	2469.8	3789.6	6228.3	7175.9	7145.4	6524.8
65°	692.4	685.6	846.7	1199.4	1663.7	2337.1	5347.7	7109.5	7169.8	6667.6
67.5°	578.0	568.5	647.7	830.5	1225.8	1327.3	3956.8	6678.4	6899.1	6651.3
70°	526.6	518.5	566.5	616.6	956.4	888.7	1994.7	5806.0	6145.7	6466.5
72.5°	446.0	431.8	497.5	547.6	743.8	681.6	824.4	4459.7	4873.9	5874.3
75°	345.9	336.4	392.6	481.9	559.1	532.0	521.2	2708.0	3160.2	4543.0
77.5°	274.1	261.3	312.7	375.6	502.9	401.4	379.7	1166.2	1614.3	2900.3
80°	206.4	194.9	237.6	297.1	386.5	302.5	245.7	475.8	608.5	1469.4
82.5°	146.9	136.7	165.8	217.9	259.9	271.4	150.9	266.7	299.8	566.5
85°	94.1	88.0	111.0	136.7	165.1	174.6	92.1	139.4	153.0	233.5
87.5°	51.4	42.0	59.6	63.6	76.5	69.7	44.0	50.8	54.8	84.6
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°
1437.6	0°	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6
1440.3	2.5°	1443.0	1445.1	1451.8	1453.9	1458.6	1464.7	1468.7	1472.8	1472.8	1476.9
1462.0	5°	1462.7	1467.4	1481.6	1489.1	1501.2	1513.4	1520.9	1529.7	1535.1	1537.8
1496.5	7.5°	1500.6	1508.0	1528.3	1541.2	1562.2	1579.1	1590.6	1602.8	1605.5	1612.9
1544.6	10°	1552.0	1560.8	1583.8	1608.2	1633.2	1654.2	1665.0	1673.8	1677.2	1678.6
1606.1	12.5°	1610.9	1623.7	1653.5	1683.3	1709.7	1728.0	1730.7	1728.7	1719.2	1711.1
1682.0	15°	1683.3	1694.8	1728.0	1760.5	1786.2	1789.6	1772.6	1761.8	1750.3	1748.3
1766.6	17.5°	1769.9	1776.0	1806.5	1838.3	1840.3	1828.8	1803.8	1793.6	1782.8	1775.4
1876.9	20°	1870.8	1868.8	1890.4	1904.0	1889.7	1854.5	1816.6	1799.7	1788.9	1780.1
2012.3	22.5°	1991.3	1975.7	1973.0	1969.6	1931.7	1857.9	1806.5	1784.8	1767.9	1755.7
2201.1	25°	2166.6	2107.0	2065.7	2042.7	1957.4	1839.7	1774.0	1725.9	1694.1	1673.2
2431.9	27.5°	2385.9	2285.7	2181.5	2125.3	1957.4	1802.4	1695.5	1617.7	1565.5	1543.9
2655.3	30°	2595.0	2490.1	2336.5	2224.8	1952.7	1741.5	1568.9	1460.6	1399.7	1378.1
2846.1	32.5°	2773.7	2659.3	2500.9	2333.8	1941.2	1642.7	1411.9	1292.1	1233.2	1207.5
3035.0	35°	2939.5	2817.7	2666.1	2453.6	1910.7	1497.9	1239.3	1147.9	1082.3	1041.0
3227.2	37.5°	3109.4	2964.6	2822.4	2561.8	1855.9	1328.6	1106.6	1028.8	951.6	896.1
3431.6	40°	3294.2	3120.9	2989.6	2626.1	1765.9	1167.6	1003.8	932.7	850.8	791.9
3667.1	42.5°	3510.1	3308.4	3175.7	2659.3	1642.7	1053.2	936.7	867.0	789.9	741.8
3919.6	45°	3735.5	3514.8	3345.6	2658.6	1505.3	999.7	915.1	846.1	760.8	710.7
4178.8	47.5°	3971.7	3730.8	3492.5	2615.3	1386.2	1007.1	902.9	800.7	706.6	657.9
4440.8	50°	4208.6	3967.0	3634.6	2534.1	1335.4	990.9	857.6	737.1	626.1	582.1
4686.5	52.5°	4443.5	4218.1	3757.2	2418.4	1284.0	930.7	799.4	654.5	592.9	562.5
4940.3	55°	4679.7	4466.5	3890.5	2249.8	1155.4	860.3	701.9	623.4	566.5	538.8
5188.7	57.5°	4916.6	4753.5	4017.1	2081.3	993.6	773.6	648.4	585.5	540.1	516.4
5396.5	60°	5163.0	5081.7	4147.7	1926.3	833.9	662.6	609.2	555.0	509.0	482.6
5596.1	62.5°	5416.8	5443.2	4249.9	1726.6	687.0	594.9	574.0	518.5	473.8	448.7
5761.3	65°	5672.6	5791.7	4316.9	1449.8	557.0	530.6	536.1	478.5	433.2	411.5
5882.4	67.5°	5865.5	6042.8	4297.9	1097.2	456.9	469.7	488.7	436.6	393.9	377.0
5862.8	70°	5887.2	6013.1	4111.1	751.3	382.4	410.2	435.9	395.3	351.3	339.1
5586.7	72.5°	5598.8	5607.0	3590.6	490.7	323.5	360.1	380.4	353.3	310.7	298.5
4887.5	75°	4842.8	4637.0	2636.3	323.5	270.7	309.3	328.3	309.3	268.0	270.7
3657.0	77.5°	3669.2	3284.0	1600.7	230.1	226.1	259.9	285.6	272.1	236.9	266.0
1839.0	80°	1890.4	1776.7	714.1	171.9	178.7	207.8	234.9	217.3	187.5	178.7
410.8	82.5°	433.2	503.6	281.6	123.2	129.3	149.6	179.4	163.1	134.7	113.7
171.2	85°	151.6	165.8	124.5	77.2	75.8	93.4	121.8	109.0	91.4	73.1
72.4	87.5°	48.1	62.9	46.7	31.1	32.5	42.0	56.2	51.4	42.6	27.8
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>
1437.6
1476.9
1539.1
1610.2
1675.2
1711.1
1748.3
1776.0
1780.8
1759.8
1681.3
1554.7
1390.9
1220.3
1054.5
911.0
803.4
751.3
718.8
664.7
584.8
562.5
536.1
512.4
480.6
448.1
410.8
377.7
339.8
297.8
261.3
234.2
163.1
112.4
77.2
29.1
0.0

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