

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: P939669

Luminaire Tested: **GALN-SB2B-840-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939669  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2B-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

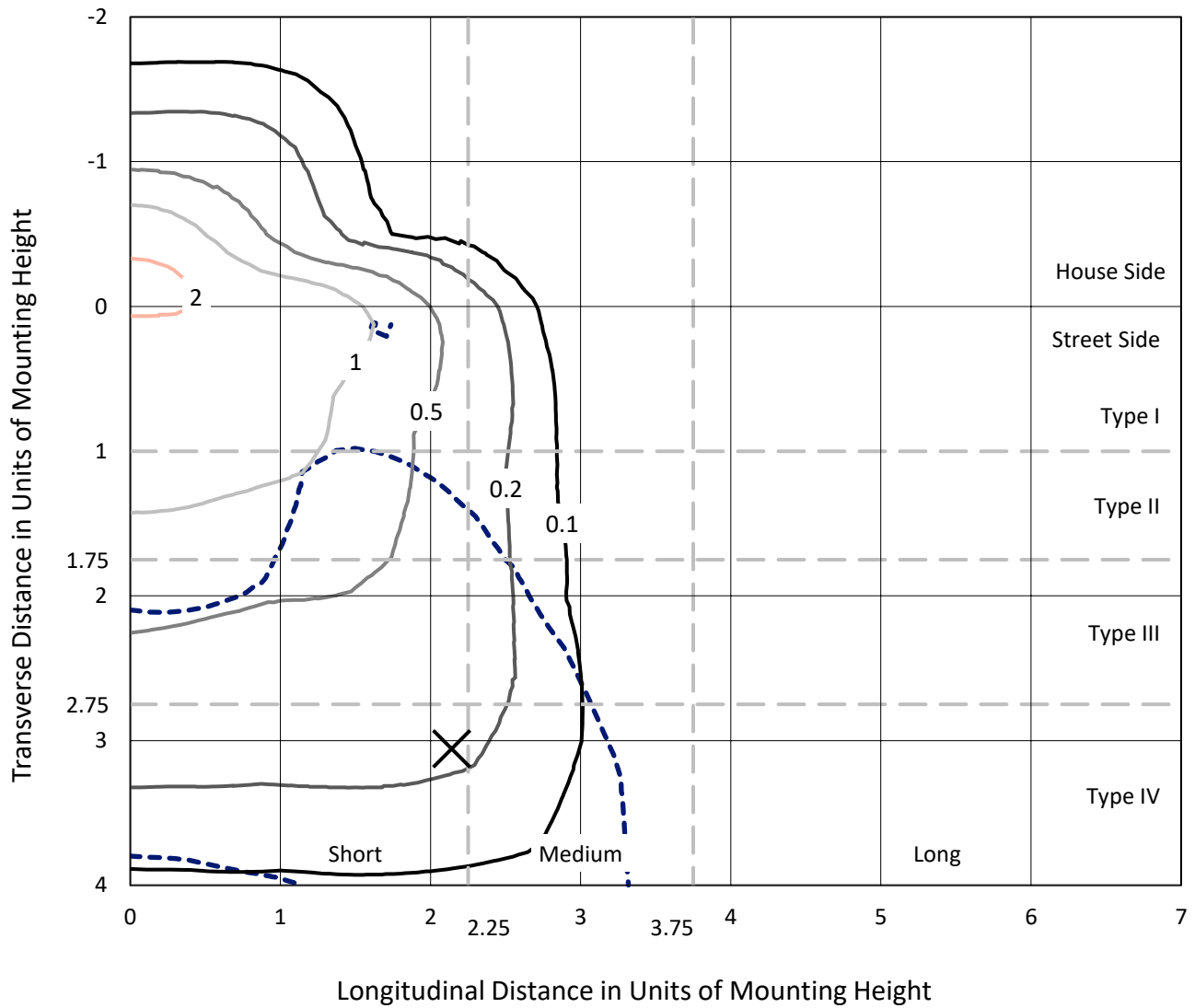
Lumens per Lamp: N/A  
Luminaire Lumens: 10646 lumens  
Efficiency: N/A  
Efficacy: 144.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

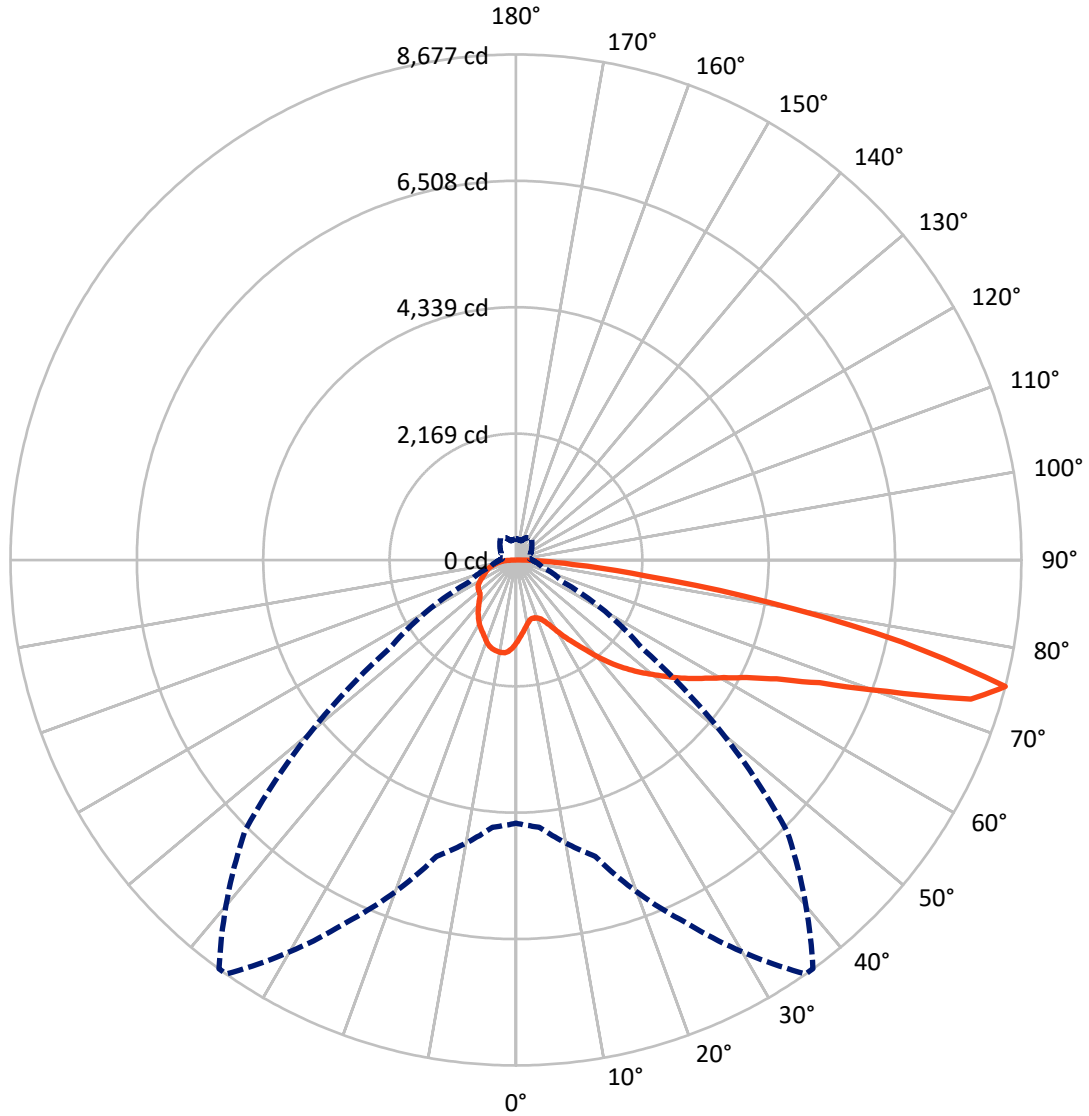
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2533.5	0.0	2533.5
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	8112.5	0.0	8112.5
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	10646.0	0.0	10646.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.3	1.3
10°-20°	387.4	3.6
20°-30°	650.6	6.1
30°-40°	1011.1	9.5
40°-50°	1500.8	14.1
50°-60°	2071.9	19.5
60°-70°	2513.7	23.6
70°-80°	2077.4	19.5
80°-90°	298.8	2.8
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°	10646.0	100.0
0°-180°	10646.0	100.0

**Coefficient of Utilization**



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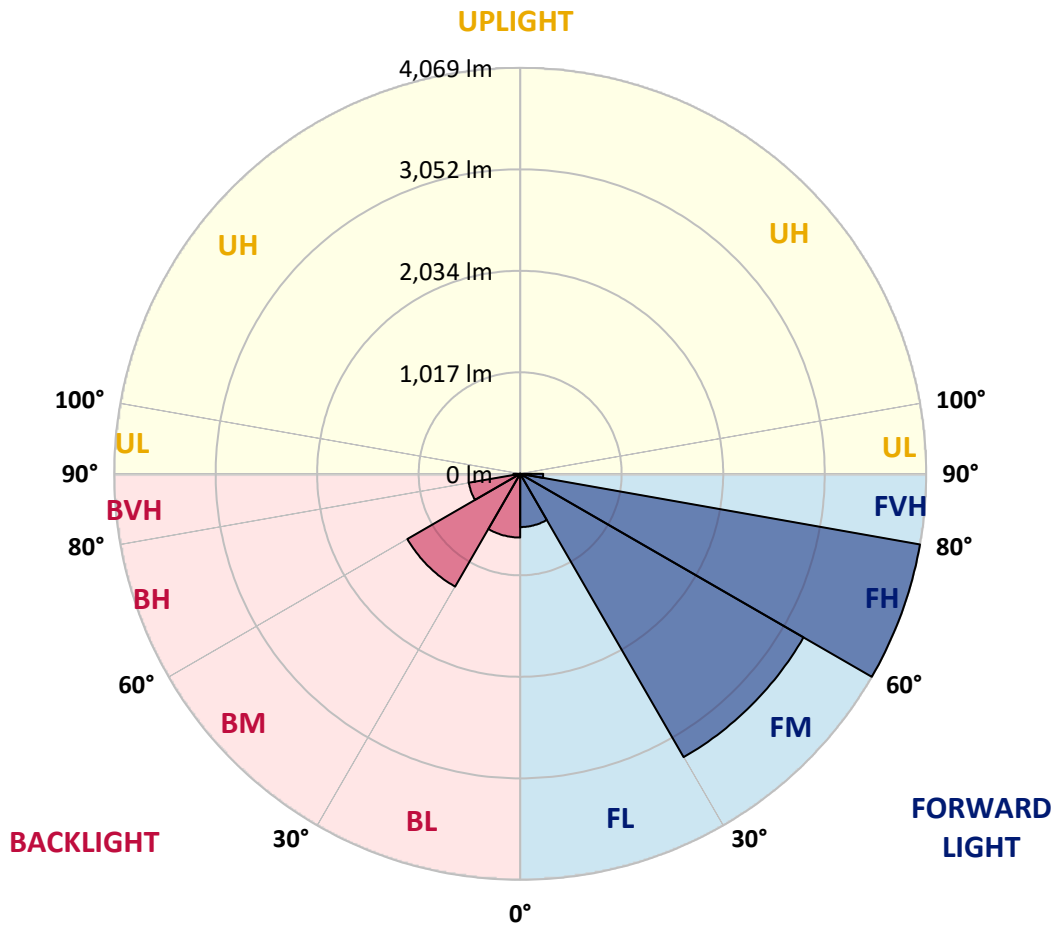
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	533.9	5.0			
FM (30°-60°)	3278.4	30.8			
FH (60°-80°)	4068.7	38.2			G2/5000
FVH (80°-90°)	231.5	2.2			G3/500
BL (0°-30°)	638.5	6.0	B2/1000		
BM (30°-60°)	1305.4	12.3	B2/2500		
BH (60°-80°)	522.3	4.9	B2/1000		G2/1000
BVH (80°-90°)	67.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1418.7	1418.7	1418.7	1418.7	1418.7	1418.7	1418.7	1418.7	1418.7	1418.7
2.5°	1308.2	1316.2	1319.7	1317.9	1326.6	1325.4	1337.5	1352.5	1373.2	1393.3
5°	1207.4	1216.1	1223.6	1230.5	1247.1	1252.3	1271.3	1300.1	1338.1	1376.6
7.5°	1113.6	1121.1	1132.6	1145.3	1173.5	1178.7	1210.3	1255.2	1308.2	1364.6
10°	1037.1	1044.6	1056.7	1071.0	1106.1	1112.5	1152.8	1212.6	1281.7	1353.0
12.5°	1004.3	1006.6	1013.5	1027.9	1058.4	1062.4	1106.7	1175.2	1255.8	1344.4
15°	1002.6	1007.2	1007.7	1015.2	1040.5	1042.3	1083.1	1151.0	1239.7	1342.7
17.5°	1019.8	1023.3	1018.1	1022.7	1044.0	1046.9	1079.1	1139.5	1234.5	1350.2
20°	1065.9	1068.7	1053.2	1046.9	1062.4	1064.7	1096.4	1147.0	1239.7	1365.7
22.5°	1163.7	1165.4	1127.4	1101.5	1102.7	1103.8	1131.5	1177.5	1259.8	1393.9
25°	1316.2	1315.1	1254.6	1204.6	1175.8	1169.5	1187.9	1227.0	1293.8	1431.3
27.5°	1494.6	1486.0	1425.6	1350.7	1288.0	1278.8	1274.8	1291.5	1342.1	1480.8
30°	1696.1	1688.0	1623.0	1525.1	1438.2	1423.3	1385.3	1376.6	1414.0	1548.1
32.5°	1917.0	1911.9	1834.2	1715.6	1599.4	1582.1	1518.2	1495.2	1524.5	1650.0
35°	2102.4	2097.8	2033.3	1911.3	1769.1	1747.8	1682.8	1656.9	1671.9	1780.7
37.5°	2269.8	2267.5	2212.3	2116.2	1969.4	1943.5	1870.4	1861.8	1858.9	1952.7
40°	2425.2	2419.5	2361.9	2311.3	2202.5	2178.9	2114.5	2107.0	2085.1	2164.5
42.5°	2597.3	2582.3	2498.9	2475.3	2446.0	2426.4	2387.8	2389.0	2340.6	2403.4
45°	2737.7	2729.1	2643.4	2629.5	2661.2	2653.1	2686.5	2695.2	2601.3	2653.7
47.5°	2888.5	2880.5	2808.0	2798.2	2883.9	2886.2	3004.2	3007.1	2855.7	2913.8
50°	3074.4	3062.9	2991.0	3003.1	3099.2	3107.8	3323.6	3304.0	3090.0	3178.0
52.5°	3197.0	3203.9	3188.4	3207.9	3339.2	3347.2	3637.8	3587.8	3321.9	3438.7
55°	3287.4	3301.2	3349.5	3394.4	3592.4	3600.4	3934.2	3857.7	3514.1	3680.4
57.5°	3403.6	3384.0	3474.4	3561.9	3832.9	3854.2	4222.6	4117.8	3684.5	3888.8
60°	3570.5	3556.7	3626.9	3756.4	4102.3	4136.2	4527.6	4352.1	3809.4	4053.9
62.5°	3908.9	3874.4	3885.3	3999.8	4441.8	4486.7	4871.8	4556.4	3871.5	4118.4
65°	4414.8	4355.5	4300.3	4379.7	4920.1	4964.4	5260.2	4716.9	3848.5	3993.5
67.5°	5051.9	4993.2	4925.3	5000.1	5624.5	5659.6	5739.6	4807.3	3667.2	3512.4
70°	5577.3	5555.5	5636.6	5944.5	6749.7	6750.8	6354.3	4732.5	3170.5	2490.3
72.5°	5507.7	5494.5	5922.1	6874.0	8167.7	8137.2	6936.1	4166.2	2135.7	1123.4
75°	4518.4	4604.1	5266.6	6857.3	8677.1	8673.1	6579.9	2648.5	883.4	465.6
77.5°	2422.9	2558.8	3419.2	5062.8	6773.8	6875.7	4626.0	926.6	379.3	298.1
80°	790.2	908.7	1362.8	2577.7	4401.6	4382.6	1982.7	363.7	259.6	211.2
82.5°	335.5	349.3	608.9	1217.2	2258.9	2223.8	631.3	208.9	182.4	144.5
85°	131.2	146.8	268.8	562.9	978.4	957.1	227.9	103.6	116.8	94.4
87.5°	43.2	52.4	96.1	192.8	304.4	293.5	55.8	35.7	50.6	43.2
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°
1418.7	0°	1418.7	1418.7	1418.7	1418.7	1418.7	1418.7	1418.7	1418.7	1418.7	1418.7
1422.7	2.5°	1430.7	1439.9	1450.9	1467.0	1480.8	1492.3	1504.4	1511.9	1514.8	1523.4
1425.0	5°	1441.1	1461.2	1488.3	1514.8	1540.7	1556.2	1570.0	1576.9	1583.2	1587.9
1431.3	7.5°	1458.4	1484.3	1526.8	1561.4	1583.2	1595.9	1605.1	1602.8	1605.1	1606.3
1438.2	10°	1473.3	1509.6	1560.2	1593.0	1609.7	1610.3	1608.0	1599.9	1595.9	1596.5
1448.6	12.5°	1491.2	1531.5	1586.1	1613.8	1618.4	1605.7	1595.9	1582.1	1576.9	1574.6
1464.1	15°	1515.3	1561.4	1614.3	1624.7	1613.2	1597.1	1580.4	1557.9	1546.4	1537.2
1490.6	17.5°	1544.7	1595.3	1636.2	1628.7	1604.0	1577.5	1550.4	1516.5	1492.9	1483.1
1526.8	20°	1585.6	1631.0	1652.9	1620.1	1582.7	1542.4	1496.3	1454.9	1433.0	1423.3
1572.9	22.5°	1635.0	1678.8	1669.0	1605.1	1552.2	1487.7	1430.2	1399.7	1388.7	1381.8
1632.2	25°	1694.3	1731.7	1680.5	1583.2	1502.1	1415.2	1370.9	1361.1	1355.9	1350.7
1704.7	27.5°	1771.4	1791.6	1689.1	1551.0	1423.8	1338.1	1322.0	1323.7	1322.0	1313.3
1805.4	30°	1873.3	1869.3	1697.2	1498.6	1334.1	1268.4	1269.6	1277.1	1278.2	1272.5
1945.8	32.5°	2007.4	1966.5	1701.2	1430.7	1248.3	1207.4	1208.6	1216.6	1222.4	1212.6
2129.4	35°	2169.7	2079.9	1694.9	1345.6	1182.1	1149.3	1140.7	1143.0	1144.7	1135.5
2352.1	37.5°	2359.0	2207.1	1666.7	1251.2	1127.4	1092.3	1073.9	1058.4	1049.2	1040.5
2604.2	40°	2566.8	2345.8	1614.9	1159.1	1066.4	1031.9	1004.3	974.9	943.8	932.3
2871.3	42.5°	2784.4	2488.5	1552.2	1071.0	996.2	968.0	938.7	896.1	849.5	825.9
3148.7	45°	3010.0	2634.7	1490.6	984.1	924.3	912.2	878.2	827.0	776.4	746.4
3426.6	47.5°	3231.0	2772.8	1400.2	896.7	856.9	870.2	843.7	796.5	740.1	692.9
3702.3	50°	3442.2	2902.3	1252.3	808.0	802.3	857.5	832.2	764.3	699.8	639.4
3972.8	52.5°	3651.7	3007.1	1063.0	727.5	772.9	854.1	817.2	742.4	663.6	600.3
4227.2	55°	3829.5	3061.2	880.5	658.4	730.3	824.7	799.4	716.5	612.4	545.0
4401.6	57.5°	3930.8	3017.4	728.6	590.5	671.6	776.4	768.9	661.3	551.3	499.5
4435.5	60°	3887.0	2840.2	604.3	531.2	615.8	724.0	715.9	606.6	504.7	455.8
4253.7	62.5°	3645.9	2502.4	505.9	479.4	565.2	670.5	663.0	564.6	469.0	421.9
3770.8	65°	3160.2	2035.6	429.3	436.2	513.9	606.0	617.0	529.5	440.8	394.8
2917.3	67.5°	2410.3	1474.5	369.5	398.8	463.9	542.7	574.4	504.2	417.3	373.5
1688.0	70°	1373.8	837.4	318.8	362.6	419.6	484.0	541.6	484.0	391.9	355.7
632.5	72.5°	520.8	384.4	275.7	326.3	377.0	434.5	505.3	452.4	362.6	335.5
326.9	75°	278.0	234.2	231.9	283.7	328.0	386.2	459.8	421.3	340.7	354.5
226.2	77.5°	189.3	165.7	193.9	242.9	274.5	332.6	411.5	374.1	295.2	294.1
156.5	80°	131.2	117.4	157.7	195.7	212.4	279.7	359.1	321.1	240.6	224.5
96.7	82.5°	78.8	76.5	118.0	146.2	150.2	215.8	297.5	269.3	196.8	171.5
57.6	85°	43.2	45.5	75.4	85.8	87.5	150.8	233.1	208.3	151.4	127.2
20.7	87.5°	12.1	15.5	27.6	34.0	42.0	78.3	138.7	123.7	76.0	52.9
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>
1418.7
1522.8
1589.0
1608.0
1597.6
1573.5
1540.1
1483.7
1422.1
1383.0
1350.7
1315.1
1275.3
1217.2
1141.8
1046.3
937.5
828.7
744.1
687.7
634.2
593.4
539.3
492.6
448.9
414.4
387.3
366.6
351.1
330.9
366.0
271.1
214.7
172.7
128.3
52.9
0.0

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