

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: P946717

Luminaire Tested: **GALN-SB2B-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12231 lumens
Efficiency: N/A
Efficacy: 165.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

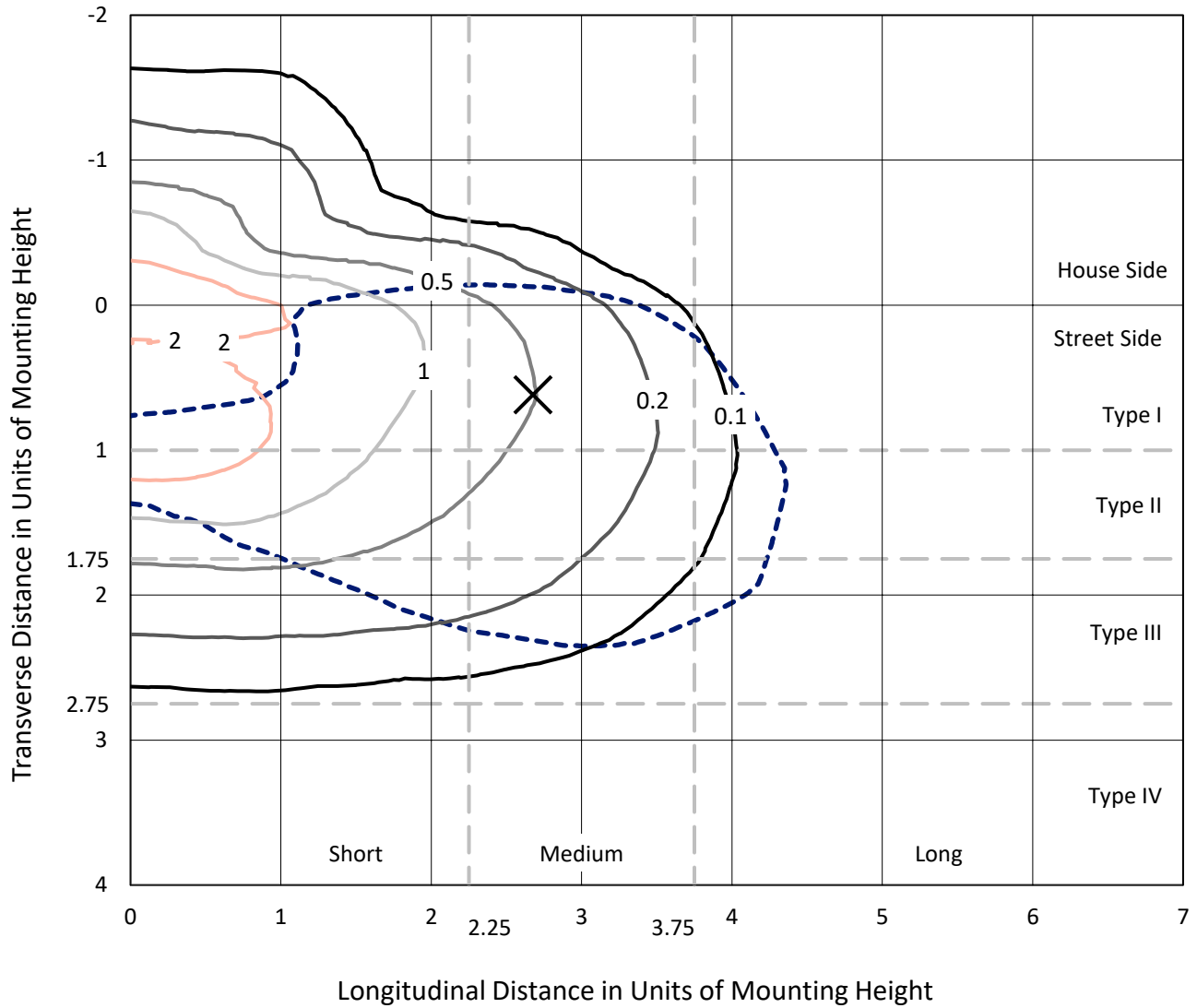
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

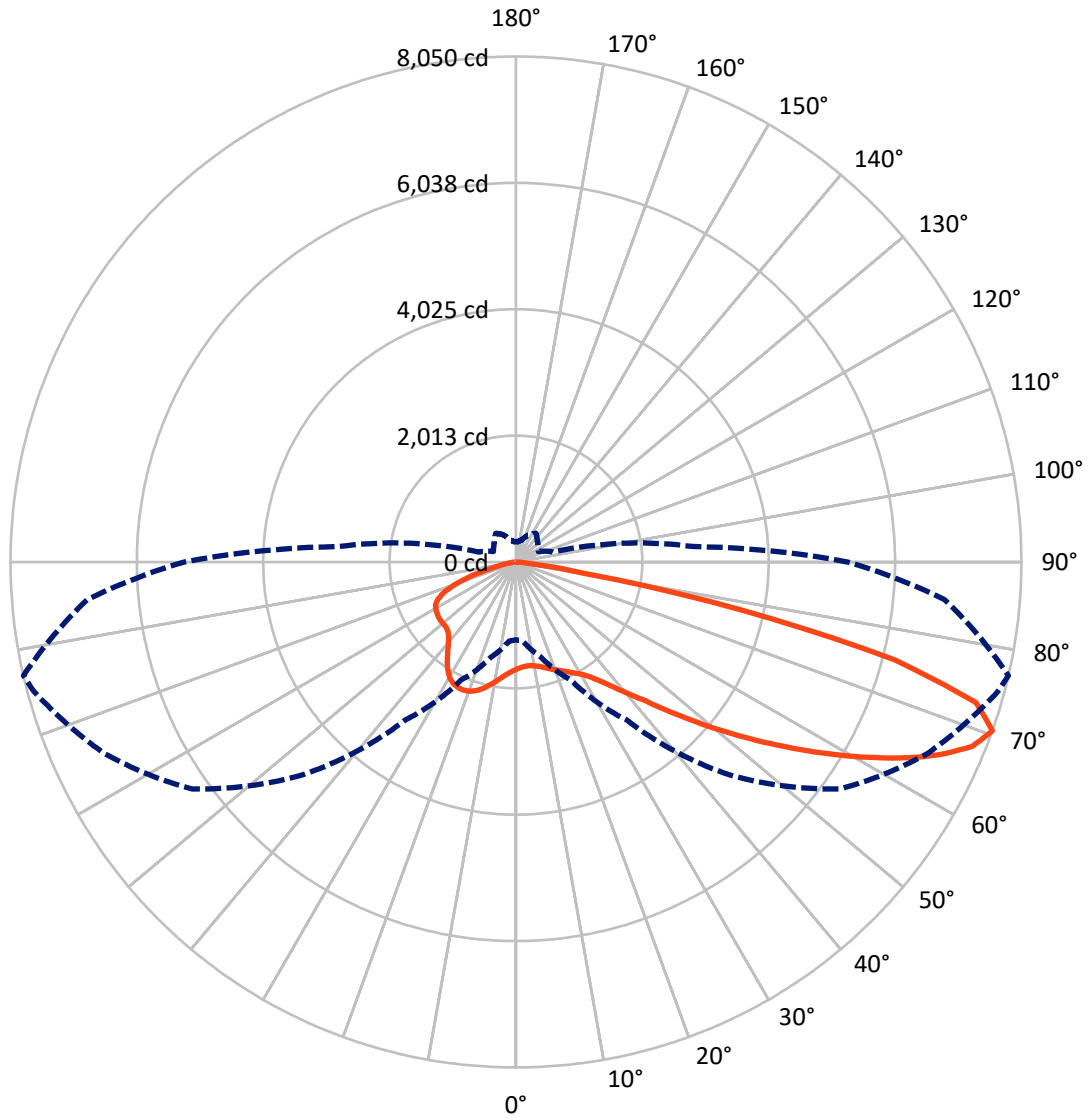
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2678.4	0.0	2678.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9552.6	0.0	9552.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	12231.0	0.0	12231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	1.3
10°-20°	469.7	3.8
20°-30°	803.2	6.6
30°-40°	1291.7	10.6
40°-50°	2016.6	16.5
50°-60°	2693.7	22.0
60°-70°	2871.1	23.5
70°-80°	1767.4	14.5
80°-90°	154.9	1.3
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°	12231.0	100.0
0°-180°	12231.0	100.0

Coefficient of Utilization



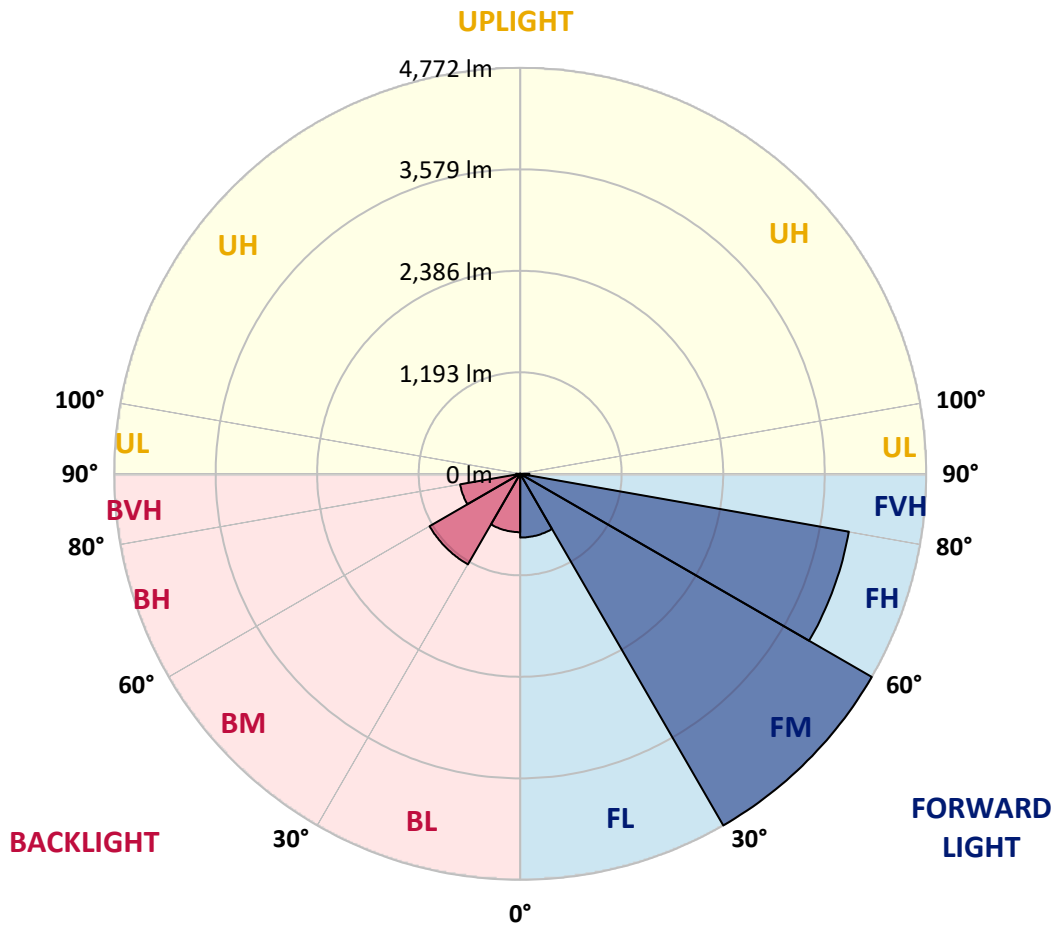
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	749.3	6.1			
FM (30°-60°)	4772.3	39.0			
FH (60°-80°)	3922.7	32.1			G2/5000
FVH (80°-90°)	108.3	0.9			G2/225
BL (0°-30°)	686.3	5.6	B2/1000		
BM (30°-60°)	1229.7	10.1	B2/2500		
BH (60°-80°)	715.8	5.9	B2/1000		G2/1000
BVH (80°-90°)	46.6	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-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3
2.5°	1572.9	1572.3	1580.4	1582.9	1598.0	1608.6	1628.7	1650.0	1677.5	1680.7
5°	1482.1	1482.1	1491.5	1501.5	1520.9	1542.2	1572.9	1609.9	1657.5	1665.0
7.5°	1405.0	1410.0	1418.2	1437.6	1460.2	1490.9	1537.8	1590.5	1653.1	1665.0
10°	1343.0	1348.7	1358.7	1374.3	1408.2	1450.8	1512.1	1579.8	1663.7	1682.5
12.5°	1323.6	1329.2	1334.9	1346.8	1378.1	1428.2	1501.5	1584.8	1689.4	1708.2
15°	1368.7	1375.6	1371.2	1368.1	1384.4	1430.1	1506.5	1603.0	1721.4	1748.3
17.5°	1472.7	1475.2	1465.2	1435.7	1433.2	1457.7	1530.3	1628.0	1761.5	1790.9
20°	1640.6	1636.2	1615.5	1557.3	1524.1	1519.0	1571.0	1665.6	1802.8	1834.1
22.5°	1868.6	1863.6	1822.2	1730.1	1656.2	1607.4	1629.9	1714.5	1849.2	1884.2
25°	2153.0	2146.1	2085.3	1960.0	1845.4	1724.5	1710.1	1779.0	1906.2	1938.7
27.5°	2485.0	2479.3	2413.6	2248.2	2082.8	1884.9	1809.7	1854.8	1965.7	2002.6
30°	2842.0	2858.3	2741.8	2563.9	2354.7	2094.1	1943.7	1948.1	2042.7	2075.9
32.5°	3261.7	3289.9	3149.6	2924.1	2638.4	2321.5	2112.9	2078.4	2154.8	2182.4
35°	3677.6	3709.6	3593.1	3343.8	3014.9	2589.6	2289.5	2228.1	2303.9	2334.0
37.5°	4037.2	4079.8	4019.7	3802.9	3417.7	2912.8	2520.0	2404.2	2487.5	2525.1
40°	4321.0	4386.1	4381.7	4246.4	3892.5	3304.9	2812.6	2621.5	2715.5	2756.2
42.5°	4551.5	4607.9	4656.7	4649.8	4388.0	3750.3	3156.5	2904.0	2975.4	3022.4
45°	4710.6	4770.7	4876.0	4989.3	4864.7	4227.0	3550.5	3239.2	3304.3	3375.1
47.5°	4852.8	4921.1	5057.6	5237.4	5269.3	4705.6	3982.1	3629.4	3688.9	3762.2
50°	4865.3	4924.2	5135.9	5390.9	5556.9	5165.4	4445.6	4067.3	4123.0	4201.3
52.5°	4562.8	4655.5	5025.0	5386.5	5689.0	5550.0	4906.0	4522.7	4585.3	4679.3
55°	3541.7	3677.6	4699.9	5218.6	5642.1	5798.7	5343.9	5006.9	5087.1	5185.4
57.5°	3050.6	3110.1	3730.9	4912.9	5427.8	5863.2	5713.5	5496.1	5625.1	5732.9
60°	2741.8	2791.3	3158.4	4437.5	5145.9	5761.1	5999.1	5952.1	6175.1	6303.5
62.5°	2411.0	2458.0	2791.9	3705.2	4785.1	5591.3	6179.5	6373.1	6738.9	6879.2
65°	2082.8	2122.9	2443.0	3113.2	4326.6	5421.6	6272.9	6737.0	7260.7	7406.0
67.5°	1717.0	1750.2	2052.7	2626.5	3769.1	5189.2	6319.2	7023.3	7714.8	7839.5
70°	1239.0	1264.7	1577.3	2077.2	3069.4	4789.5	6300.4	7226.2	7950.4	8050.0
72.5°	585.7	608.9	975.9	1348.7	2168.0	4011.5	5920.2	7065.3	7711.1	7661.6
75°	312.6	332.6	560.6	739.8	1145.1	2749.9	4844.6	6086.2	6475.2	6234.6
77.5°	211.7	227.4	347.0	444.1	523.1	1305.4	3113.9	4213.8	4054.1	3657.0
80°	167.9	184.2	284.4	300.7	253.1	471.7	1286.6	1950.6	1401.3	1120.6
82.5°	129.0	147.2	239.3	218.0	137.8	193.6	374.6	617.0	358.9	273.1
85°	78.9	98.3	187.9	139.1	77.7	88.3	127.2	171.6	109.6	91.5
87.5°	40.1	56.4	95.2	50.7	35.1	20.7	33.8	33.8	28.8	25.1
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°
1706.3	0°	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3
1697.6	2.5°	1712.6	1725.1	1746.4	1766.5	1782.1	1797.2	1812.2	1820.3	1822.8	1832.9
1707.0	5°	1732.6	1755.8	1797.2	1836.0	1860.4	1875.5	1886.1	1892.4	1893.6	1896.8
1732.6	7.5°	1769.6	1806.6	1864.2	1903.0	1921.2	1919.9	1915.6	1899.9	1893.6	1888.0
1770.2	10°	1821.6	1870.5	1941.2	1968.2	1956.9	1926.8	1888.0	1842.3	1821.0	1800.3
1821.6	12.5°	1886.1	1948.1	2017.7	2016.4	1960.7	1883.6	1793.4	1723.2	1678.8	1646.8
1884.9	15°	1964.4	2035.8	2089.1	2046.5	1924.3	1785.9	1653.7	1562.3	1522.2	1487.1
1948.8	17.5°	2045.2	2121.6	2146.1	2037.1	1832.9	1641.2	1491.5	1419.4	1380.0	1361.2
2017.7	20°	2124.2	2199.9	2179.9	1983.2	1693.8	1477.1	1343.6	1304.2	1296.0	1300.4
2084.7	22.5°	2207.5	2275.1	2186.8	1879.2	1516.5	1309.2	1235.9	1237.2	1255.3	1268.5
2154.8	25°	2292.7	2338.4	2168.6	1728.9	1326.1	1185.8	1167.6	1187.7	1223.4	1249.1
2233.8	27.5°	2374.7	2394.8	2129.2	1542.8	1162.6	1097.5	1100.6	1141.9	1195.8	1231.5
2329.6	30°	2467.4	2444.9	2053.4	1333.6	1049.2	1021.7	1048.0	1096.2	1150.1	1182.0
2450.5	32.5°	2572.0	2488.1	1933.1	1140.1	969.1	960.9	1004.1	1035.5	1059.3	1068.7
2610.9	35°	2702.3	2548.9	1779.0	1004.1	897.0	916.4	957.8	942.1	932.7	927.7
2826.4	37.5°	2871.5	2630.9	1598.6	915.8	838.8	884.5	901.4	852.5	815.6	797.4
3087.6	40°	3075.0	2751.2	1425.1	847.5	801.8	856.9	827.5	768.6	721.6	695.9
3381.4	42.5°	3301.2	2877.1	1279.1	796.2	781.1	834.4	773.0	702.8	627.0	618.9
3731.5	45°	3538.6	3006.8	1179.5	756.7	771.1	815.0	741.7	628.3	574.4	607.6
4082.9	47.5°	3776.0	3125.8	1119.4	727.3	766.1	793.0	714.1	586.9	548.7	597.0
4459.4	50°	4040.3	3232.3	1092.5	706.0	760.5	784.3	672.8	576.3	521.8	553.7
4849.0	52.5°	4302.8	3315.0	1072.4	684.7	752.3	777.4	652.7	563.8	489.2	491.1
5241.2	55°	4564.6	3368.8	1050.5	656.5	734.2	762.3	650.8	550.0	464.8	456.0
5655.8	57.5°	4844.0	3399.5	1023.6	625.2	702.8	724.1	649.0	539.3	457.3	442.9
6079.9	60°	5128.4	3444.6	988.5	586.9	660.9	678.4	644.6	535.6	452.9	428.5
6479.6	62.5°	5383.4	3460.3	946.5	550.6	607.0	633.3	635.2	532.4	441.0	399.0
6811.6	65°	5550.6	3392.6	873.2	509.3	548.7	586.9	617.0	521.8	419.7	377.7
6975.7	67.5°	5543.7	3199.7	758.6	456.0	492.4	535.6	590.7	503.6	394.0	351.4
6851.7	70°	5285.6	2818.8	613.3	394.0	430.3	480.5	556.9	476.7	363.3	322.6
6092.4	72.5°	4533.3	2206.2	445.4	321.3	358.3	423.5	513.0	444.1	332.0	296.9
4502.6	75°	3238.5	1396.3	301.9	246.8	278.8	358.9	458.5	405.9	303.2	298.2
2255.1	77.5°	1654.3	667.1	199.8	180.4	194.2	283.1	385.2	362.7	307.6	246.2
641.4	80°	538.1	246.2	125.9	122.8	129.0	188.5	298.2	297.5	233.0	167.3
155.3	82.5°	171.6	105.9	82.1	78.9	75.8	118.4	208.0	235.5	157.2	105.9
55.8	85°	68.3	63.3	48.2	44.5	31.9	55.8	109.0	156.6	117.1	76.4
14.4	87.5°	25.1	25.1	13.2	9.4	6.9	18.8	29.4	47.0	67.0	39.5
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°
1706.3
1838.5
1901.8
1889.2
1794.0
1639.3
1483.3
1366.8
1298.5
1271.6
1255.9
1240.3
1189.5
1073.7
932.7
801.8
697.8
627.0
625.2
619.5
577.5
504.3
462.3
444.7
430.3
399.0
377.7
353.3
326.4
295.0
281.3
219.2
147.8
105.2
78.3
38.8
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