

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: P939425

Luminaire Tested: **GALN-SB2A-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8889 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

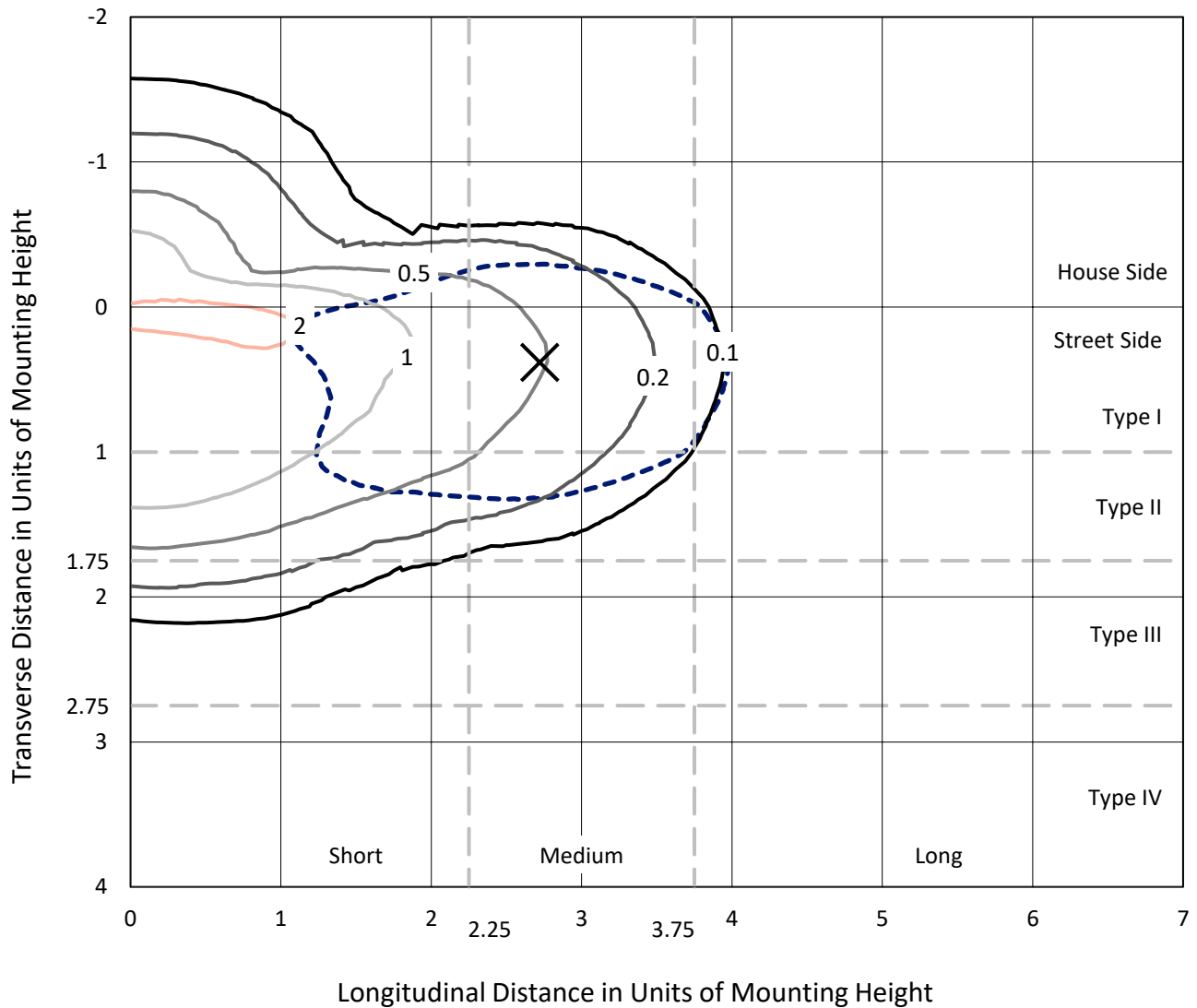
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

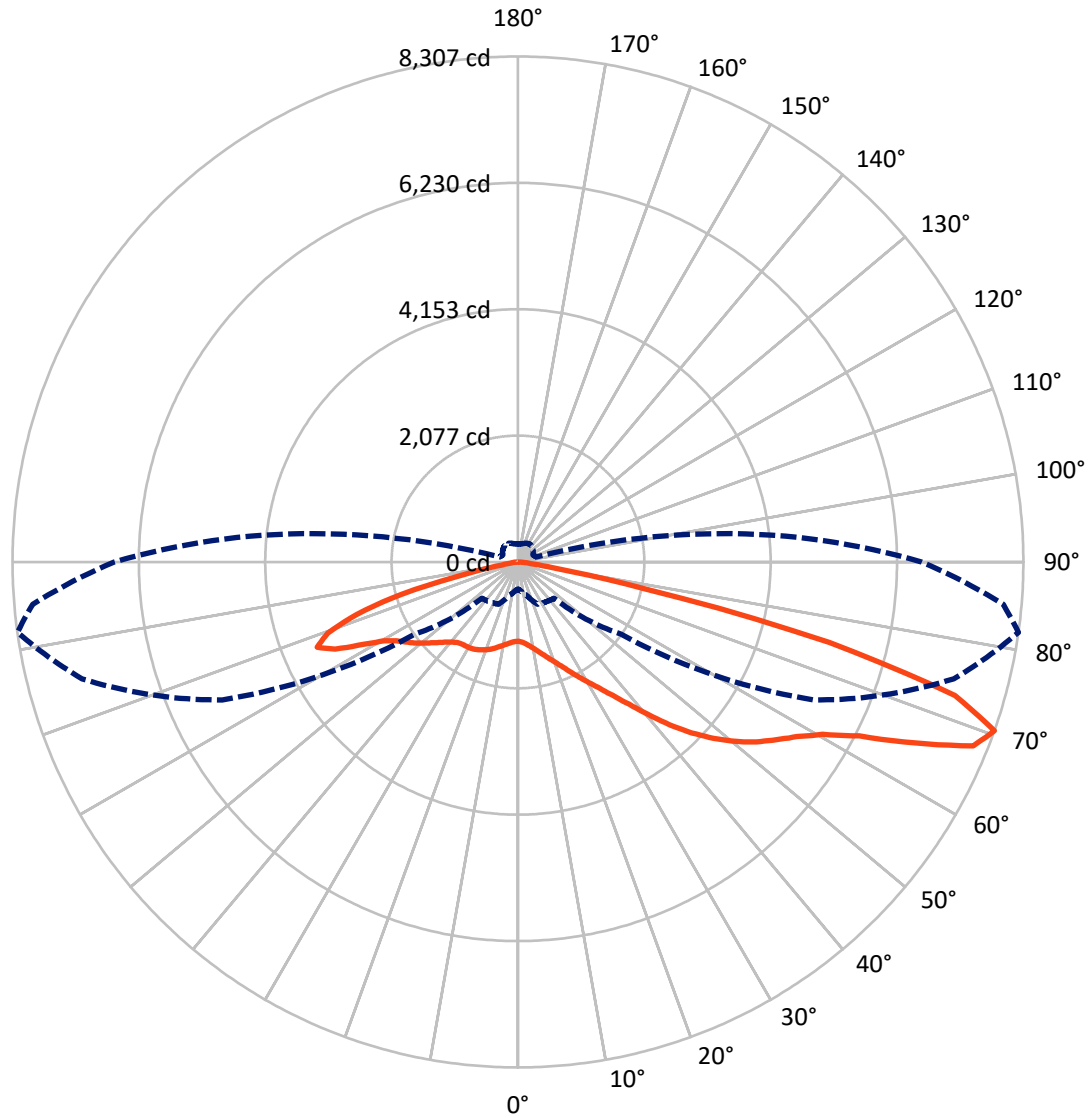
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2191.4	0.0	2191.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	6697.6	0.0	6697.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	8889.0	0.0	8889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	1.4
10°-20°	353.5	4.0
20°-30°	591.4	6.7
30°-40°	923.9	10.4
40°-50°	1471.5	16.6
50°-60°	2047.8	23.0
60°-70°	2142.0	24.1
70°-80°	1119.5	12.6
80°-90°	116.2	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°	8889.0	100.0
0°-180°	8889.0	100.0

Coefficient of Utilization



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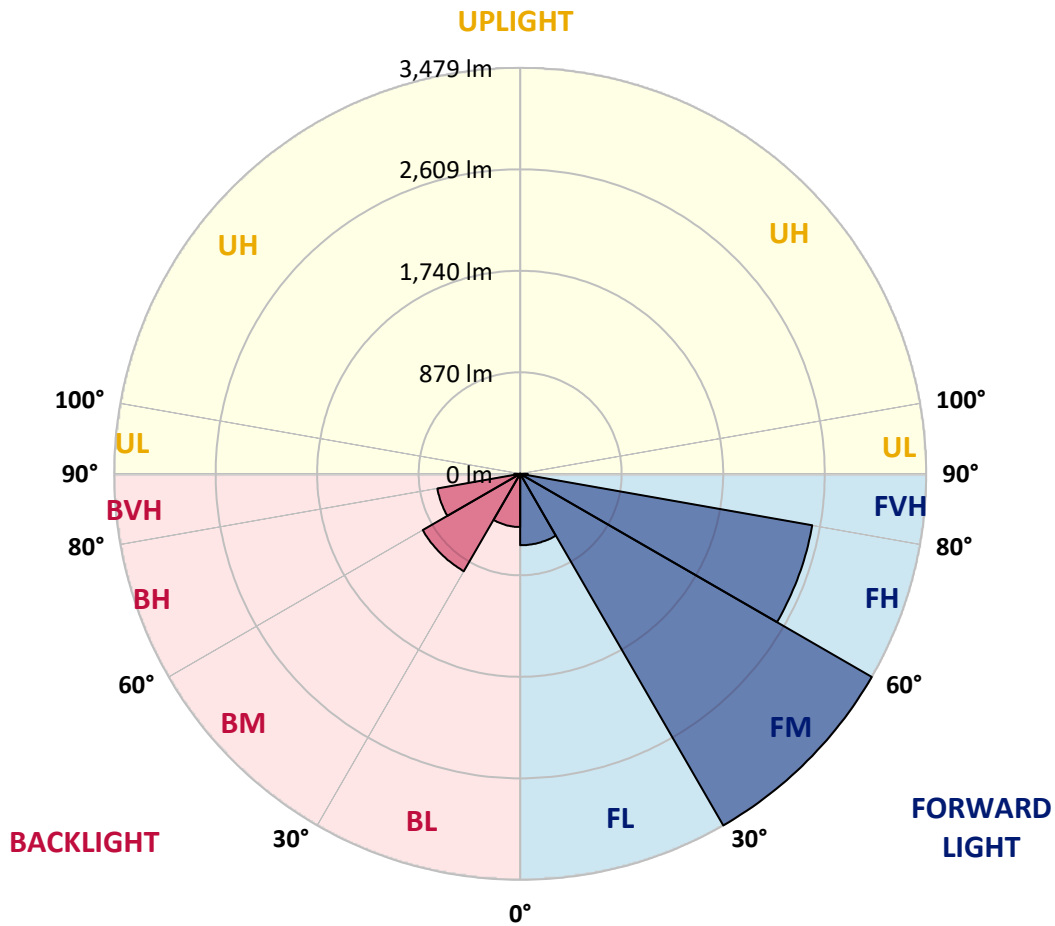
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.1	6.9			
FM (30°-60°)	3479.1	39.1			
FH (60°-80°)	2541.4	28.6			G2/5000
FVH (80°-90°)	65.1	0.7			G1/100
BL (0°-30°)	455.9	5.1	B1/500		
BM (30°-60°)	964.1	10.8	B1/1000		
BH (60°-80°)	720.2	8.1	B2/1000		G2/1000
BVH (80°-90°)	51.2	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1303.2	1303.2	1303.2	1303.2	1303.2	1303.2	1303.2	1303.2	1303.2	1303.2
2.5°	1334.4	1341.9	1339.6	1337.2	1337.2	1333.9	1333.4	1328.7	1324.9	1318.8
5°	1351.3	1359.4	1358.4	1360.3	1366.4	1367.9	1369.3	1366.4	1358.9	1351.3
7.5°	1336.3	1345.2	1348.0	1359.4	1378.2	1395.2	1408.0	1413.1	1406.1	1395.2
10°	1285.3	1295.2	1305.1	1332.0	1365.5	1405.6	1439.6	1459.8	1458.4	1448.0
12.5°	1182.0	1192.4	1213.6	1266.0	1327.3	1398.0	1461.2	1503.7	1518.3	1510.8
15°	1099.5	1108.4	1124.5	1178.2	1258.0	1365.5	1469.3	1551.8	1589.1	1584.8
17.5°	1097.1	1100.9	1110.8	1136.3	1197.6	1314.6	1460.8	1599.0	1670.2	1669.7
20°	1138.6	1140.0	1145.7	1150.9	1185.8	1275.9	1439.1	1638.1	1761.2	1761.2
22.5°	1196.2	1195.2	1200.9	1196.2	1213.1	1272.6	1425.4	1672.6	1862.6	1870.2
25°	1282.5	1277.8	1276.4	1265.5	1268.8	1303.2	1440.5	1711.7	1982.9	1998.5
27.5°	1397.6	1390.0	1384.8	1359.8	1351.3	1366.4	1486.7	1758.9	2116.9	2143.8
30°	1547.6	1533.9	1526.3	1482.9	1452.3	1454.6	1556.5	1821.6	2257.0	2300.4
32.5°	1752.3	1731.0	1710.8	1639.5	1583.4	1565.0	1646.6	1908.4	2408.8	2478.2
35°	1981.5	1964.5	1942.8	1832.9	1746.6	1704.2	1768.3	2029.6	2586.7	2696.6
37.5°	2202.3	2187.6	2198.0	2049.9	1938.6	1876.8	1927.7	2192.3	2806.0	2968.3
40°	2430.5	2419.2	2420.6	2279.1	2149.4	2080.1	2121.1	2396.6	3057.4	3291.3
42.5°	2678.6	2670.2	2641.9	2516.4	2370.6	2306.0	2343.8	2632.4	3327.2	3659.3
45°	2956.5	2951.3	2924.9	2781.0	2614.0	2541.4	2592.3	2892.8	3598.4	4005.5
47.5°	3196.5	3200.8	3197.5	3076.3	2903.2	2796.6	2857.4	3164.5	3850.8	4330.9
50°	3312.1	3334.3	3366.8	3329.1	3221.5	3113.1	3124.8	3426.7	4091.3	4636.1
52.5°	3251.7	3293.7	3382.4	3442.8	3484.3	3461.6	3430.0	3687.1	4317.7	4911.6
55°	3026.7	3085.7	3232.9	3378.6	3590.4	3755.0	3796.5	3975.8	4538.5	5154.0
57.5°	2616.9	2712.6	2844.7	3139.5	3496.1	3897.0	4223.9	4376.2	4772.4	5412.9
60°	1914.1	2042.4	2206.5	2645.2	3165.9	3821.0	4587.5	4991.3	5104.9	5748.3
62.5°	1224.9	1304.2	1455.1	1868.3	2466.9	3431.9	4698.8	5760.1	5668.6	6298.3
65°	838.6	889.6	1027.8	1259.8	1594.7	2554.6	4400.7	6336.5	6563.8	7169.9
67.5°	609.4	648.1	766.0	969.3	1039.1	1511.7	3414.9	6310.1	7434.1	8068.0
70°	444.3	471.7	570.7	766.0	799.5	841.0	2068.8	5363.9	7415.2	8306.7
72.5°	329.2	348.1	414.6	594.3	647.1	567.9	1024.0	3898.4	6371.9	7513.3
75°	238.2	252.3	301.4	454.7	517.9	432.5	510.8	2278.2	4444.6	5285.1
77.5°	182.1	192.9	225.0	333.0	414.6	324.5	317.0	1048.1	2107.4	2117.8
80°	146.2	153.3	170.7	234.4	317.9	242.9	206.6	423.1	666.0	563.7
82.5°	107.5	119.3	144.3	164.6	227.3	167.4	125.9	213.7	253.3	217.9
85°	61.3	69.3	87.3	117.9	145.3	102.4	72.2	94.8	117.9	96.7
87.5°	21.7	28.3	30.7	46.2	63.2	42.5	27.8	27.4	38.7	28.8
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°
1303.2	0°	1303.2	1303.2	1303.2	1303.2	1303.2	1303.2	1303.2	1303.2	1303.2	1303.2
1317.4	2.5°	1312.7	1310.3	1300.9	1288.1	1274.9	1262.2	1258.0	1249.0	1242.9	1239.6
1348.0	5°	1339.1	1331.5	1309.4	1281.1	1251.4	1219.3	1196.6	1175.9	1160.8	1146.6
1390.0	7.5°	1376.8	1363.6	1325.4	1275.9	1223.1	1169.8	1130.1	1099.9	1079.7	1066.5
1439.1	10°	1420.7	1400.4	1341.9	1267.9	1186.3	1109.9	1063.2	1037.2	1024.5	1017.4
1495.2	12.5°	1471.2	1442.4	1358.9	1249.5	1130.1	1042.9	1010.8	1003.3	1003.7	1004.2
1566.0	15°	1533.4	1493.3	1372.6	1209.4	1057.0	991.5	985.8	998.1	1010.8	1016.9
1646.1	17.5°	1603.7	1547.1	1374.9	1143.3	985.3	958.4	976.4	1002.8	1022.1	1030.6
1735.8	20°	1679.2	1601.8	1358.0	1049.9	926.4	931.6	963.6	997.6	1018.8	1029.7
1838.1	22.5°	1765.5	1660.3	1317.4	951.8	878.3	902.3	940.0	973.1	995.2	1006.1
1958.4	25°	1864.1	1725.9	1253.7	869.3	836.8	869.3	907.0	934.4	952.3	962.2
2092.8	27.5°	1973.5	1794.3	1168.8	803.7	800.4	835.3	866.5	887.7	897.1	904.7
2235.7	30°	2083.4	1856.5	1066.0	754.2	768.8	801.8	824.0	833.5	836.3	837.7
2395.2	32.5°	2202.3	1910.3	958.0	713.2	738.6	769.3	782.5	786.8	773.5	764.6
2588.6	35°	2346.1	1967.8	852.3	680.6	708.9	735.3	739.6	735.8	720.2	701.9
2831.0	37.5°	2523.9	2039.5	767.9	657.5	681.1	698.6	693.4	692.4	693.8	672.1
3122.5	40°	2741.8	2132.9	706.1	639.6	658.5	662.2	647.6	655.6	662.7	629.7
3442.3	42.5°	2983.8	2245.6	666.9	627.3	639.6	630.6	608.0	617.0	616.0	572.6
3763.5	45°	3230.5	2368.3	653.3	618.4	622.1	604.2	579.2	581.6	561.8	522.6
4071.5	47.5°	3475.8	2499.9	661.8	610.8	600.4	580.2	560.8	550.4	521.2	492.0
4366.8	50°	3716.3	2638.1	692.9	595.7	570.7	558.9	544.8	526.4	495.3	470.3
4646.0	52.5°	3939.4	2777.2	727.8	570.7	533.5	540.5	531.6	510.4	479.7	454.2
4910.1	55°	4150.7	2916.4	741.5	536.3	498.6	524.5	519.3	480.2	443.4	422.6
5186.5	57.5°	4380.9	3083.8	726.4	492.4	470.3	506.1	486.3	442.9	421.7	406.1
5546.4	60°	4699.8	3346.5	693.8	438.2	443.4	478.8	444.8	426.9	403.8	386.3
6086.0	62.5°	5229.5	3836.6	641.5	384.4	411.8	438.2	425.0	407.1	383.5	366.5
7008.6	65°	6012.4	4517.7	542.9	342.4	376.4	398.6	403.8	385.8	361.3	343.4
7817.1	67.5°	6672.8	4945.0	410.8	307.5	340.1	366.5	381.1	363.7	337.7	320.3
8006.2	70°	6636.5	4634.7	313.7	273.1	308.0	334.9	353.8	340.1	312.2	295.7
7272.3	72.5°	5894.5	3877.2	253.8	238.2	275.5	301.9	324.5	314.1	285.8	269.8
5327.6	75°	4330.4	2752.2	202.8	202.8	234.9	267.4	292.4	285.8	259.9	248.6
2236.7	77.5°	1825.4	1154.7	159.0	168.4	195.3	229.7	260.8	263.2	240.6	254.7
591.5	80°	485.4	318.4	121.2	132.5	153.3	189.6	226.9	225.9	201.4	188.2
219.8	82.5°	184.9	125.5	86.3	93.4	110.8	145.3	179.7	185.4	160.8	139.1
86.3	85°	71.2	53.8	53.3	56.1	64.6	96.2	135.8	140.6	121.2	102.8
24.1	87.5°	18.4	16.0	19.8	18.9	29.7	51.4	77.8	80.7	74.1	42.9
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>
1303.2
1243.3
1152.3
1069.3
1019.3
1005.1
1016.5
1032.5
1032.5
1008.9
965.0
907.5
841.0
767.4
702.8
673.6
630.6
572.1
524.0
492.0
468.4
454.7
420.7
404.7
385.4
366.5
344.3
320.7
297.2
269.8
245.3
231.1
175.0
139.1
106.1
61.3
0.0

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