

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: P950634

Luminaire Tested: **GALN-SB5A-740-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950634  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5A-740-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

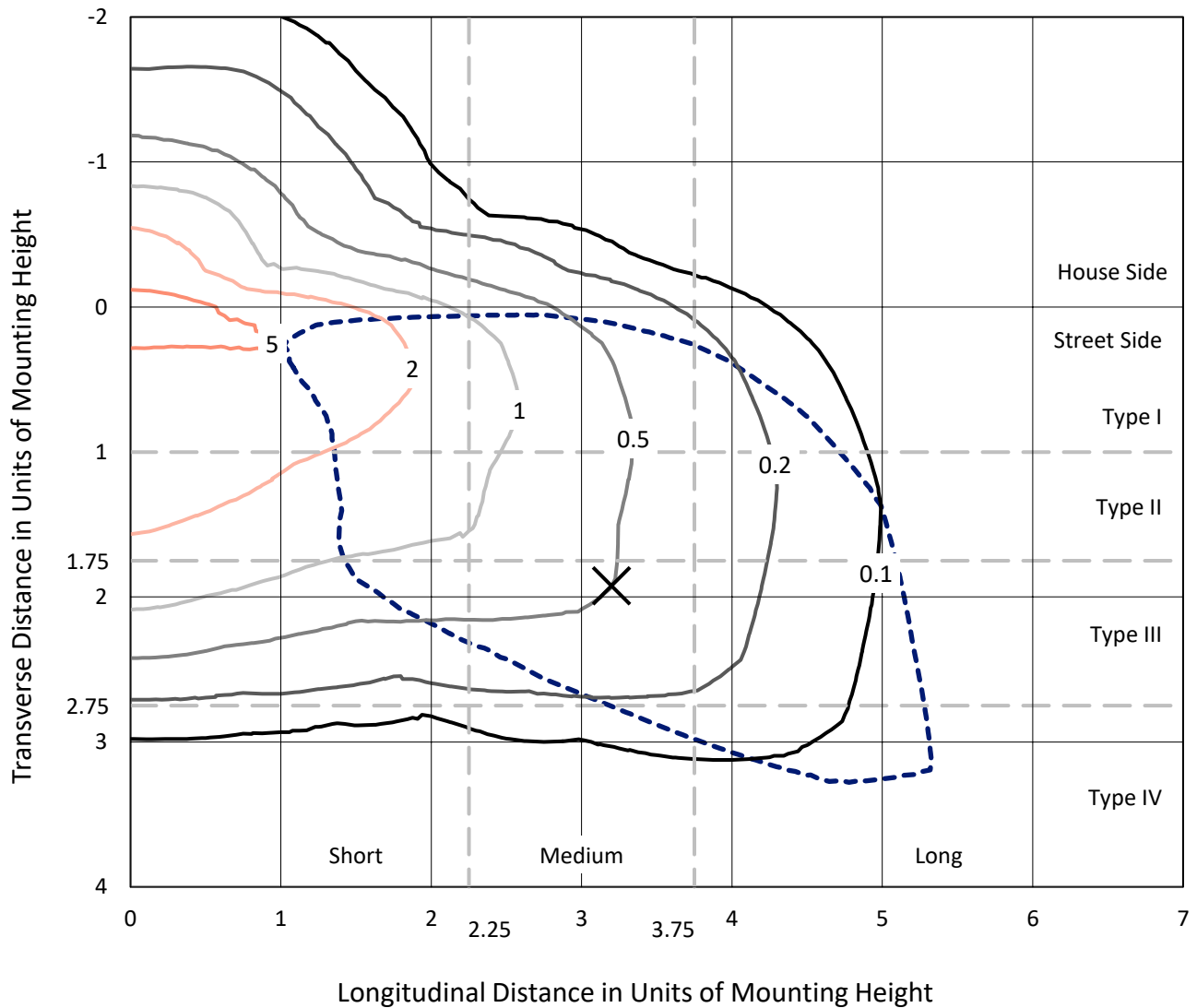
Lumens per Lamp: N/A  
Luminaire Lumens: 23430 lumens  
Efficiency: N/A  
Efficacy: 165.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

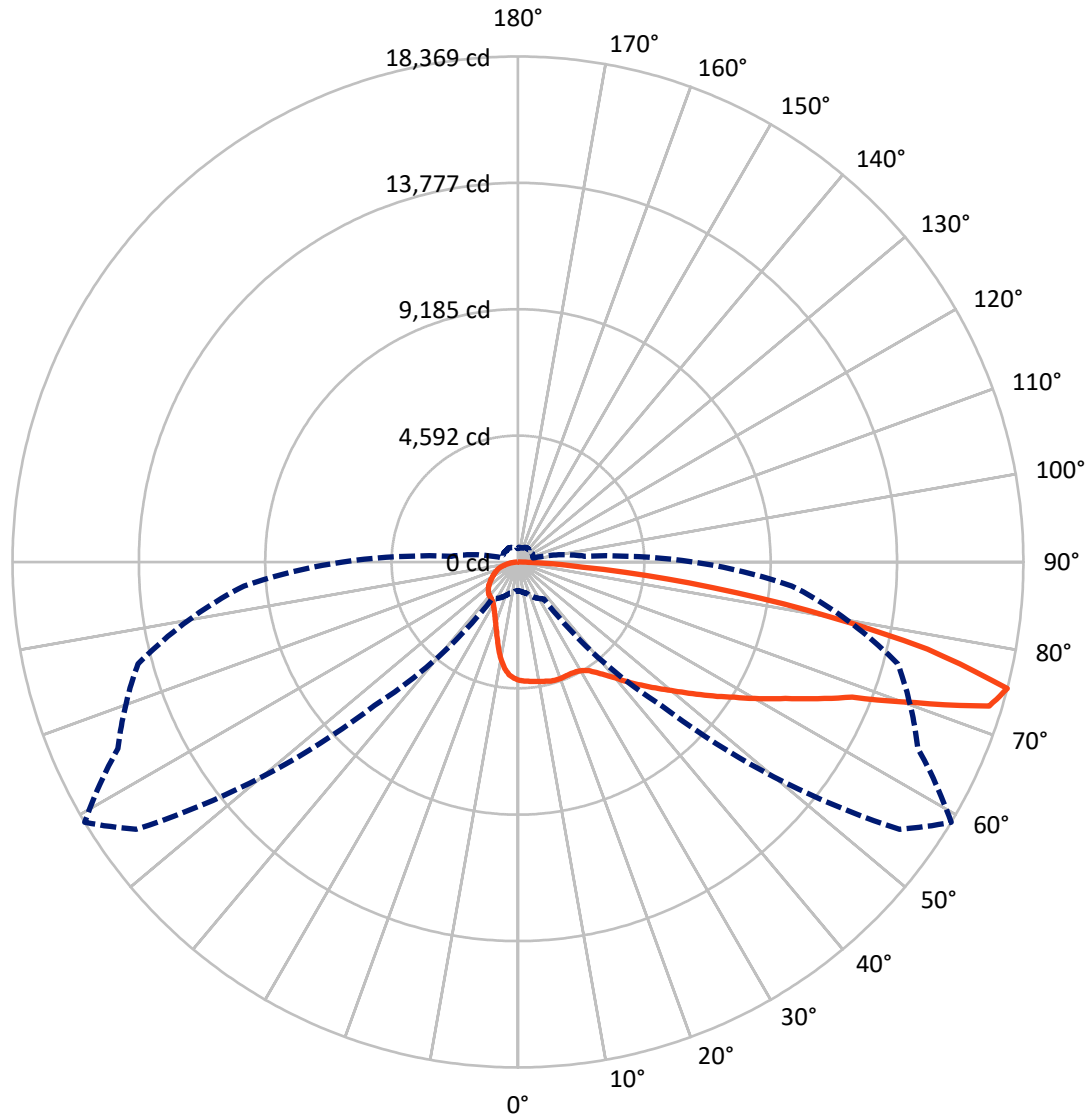
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4394.5	0.0	4394.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	19035.6	0.0	19035.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	23430.0	0.0	23430.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.6	1.6
10°-20°	985.6	4.2
20°-30°	1497.1	6.4
30°-40°	2225.4	9.5
40°-50°	3309.6	14.1
50°-60°	4492.4	19.2
60°-70°	5484.5	23.4
70°-80°	4304.1	18.4
80°-90°	745.6	3.2
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°	23430.0	100.0
0°-180°	23430.0	100.0

**Coefficient of Utilization**



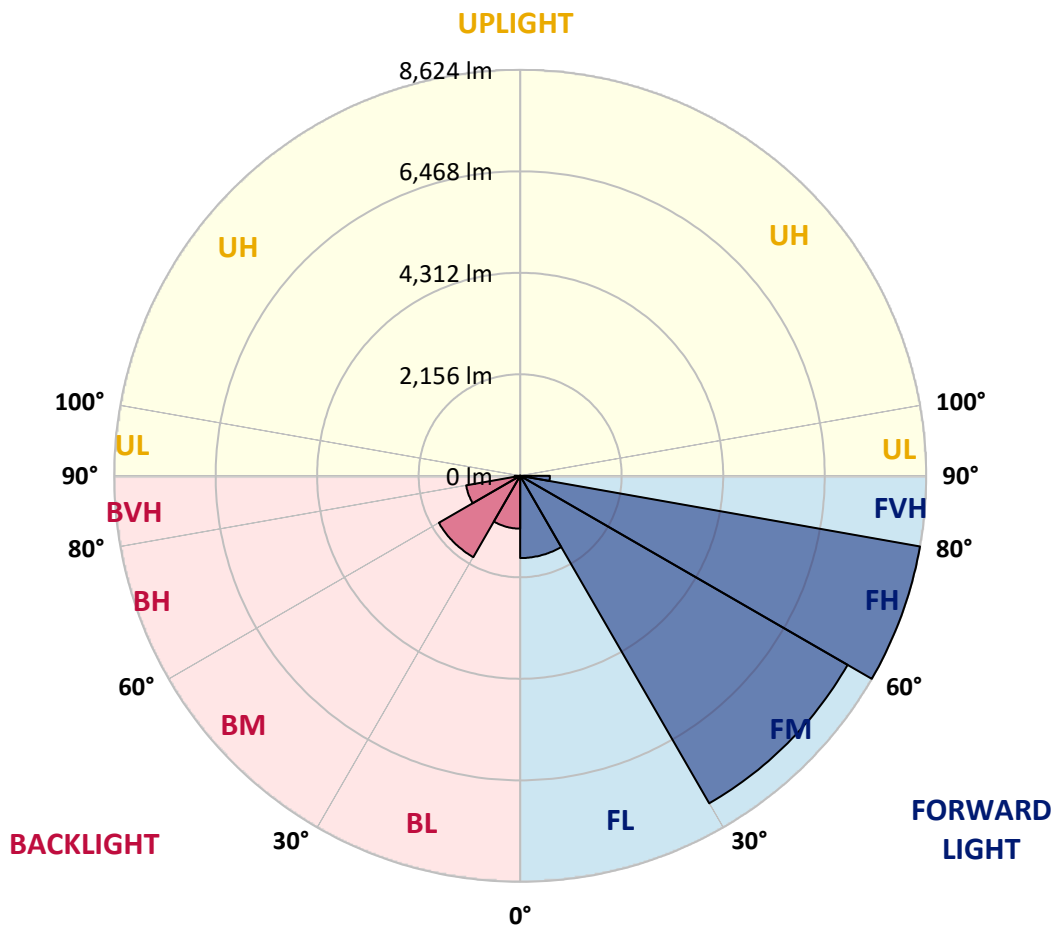
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1747.0	7.5			
FM (30°-60°)	8032.8	34.3			
FH (60°-80°)	8624.4	36.8			G4/12000
FVH (80°-90°)	631.5	2.7			G4/750
BL (0°-30°)	1121.4	4.8	B3/2500		
BM (30°-60°)	1994.7	8.5	B2/2500		
BH (60°-80°)	1164.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	114.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5
2.5°	4337.1	4322.0	4337.1	4330.8	4328.3	4323.2	4324.5	4333.3	4328.3	4334.6
5°	4308.1	4299.3	4314.4	4310.6	4327.0	4329.5	4345.9	4356.0	4362.3	4363.5
7.5°	4260.2	4251.4	4272.8	4290.4	4325.7	4335.8	4369.8	4386.2	4395.1	4410.2
10°	4085.0	4081.2	4134.1	4201.0	4284.1	4335.8	4387.5	4415.2	4429.1	4469.4
12.5°	3774.9	3780.0	3849.3	3977.9	4144.2	4310.6	4407.7	4448.0	4469.4	4519.8
15°	3478.7	3477.5	3553.1	3690.5	3923.7	4199.7	4417.7	4487.1	4523.6	4598.0
17.5°	3307.3	3302.3	3355.2	3459.8	3676.6	4029.5	4392.5	4508.5	4586.6	4679.9
20°	3275.8	3265.7	3293.5	3345.1	3498.9	3843.0	4327.0	4508.5	4637.1	4758.1
22.5°	3390.5	3374.1	3362.8	3356.5	3424.5	3689.2	4252.6	4493.4	4711.4	4870.2
25°	3621.2	3596.0	3538.0	3481.3	3461.1	3619.9	4187.1	4489.6	4822.3	5021.5
27.5°	3994.2	3962.7	3845.5	3709.4	3587.1	3655.2	4158.1	4512.3	4944.6	5181.6
30°	4456.8	4422.8	4275.3	4066.1	3846.8	3786.3	4194.6	4579.1	5100.9	5394.6
32.5°	4871.5	4833.7	4707.6	4494.6	4198.4	4013.2	4310.6	4706.4	5346.7	5690.8
35°	5239.5	5195.4	5082.0	4885.4	4629.5	4332.0	4519.8	4932.0	5695.8	6172.2
37.5°	5600.0	5548.3	5424.8	5216.8	5037.9	4756.8	4808.5	5221.9	6159.6	6757.1
40°	6003.3	5929.0	5779.0	5573.5	5399.6	5254.7	5187.9	5577.3	6631.0	7410.0
42.5°	6394.1	6323.5	6144.5	5969.3	5751.3	5709.7	5627.7	5993.3	7146.5	8127.1
45°	6815.0	6730.6	6513.8	6292.0	6154.6	6012.2	6053.8	6409.2	7652.0	8858.2
47.5°	7209.6	7115.0	6859.2	6612.1	6536.5	6266.8	6444.5	6866.7	8177.6	9599.3
50°	7422.6	7329.3	7116.3	6893.2	6834.0	6580.6	6868.0	7369.6	8728.4	10337.9
52.5°	7600.3	7499.4	7220.9	7097.4	7079.7	6922.2	7389.8	7944.4	9279.2	10990.8
55°	7789.3	7677.2	7321.7	7210.8	7291.5	7305.3	8008.7	8596.0	9861.5	11627.3
57.5°	8007.4	7865.0	7418.8	7306.6	7498.2	7754.1	8719.5	9271.6	10433.7	12217.2
60°	8212.8	8069.2	7605.3	7459.1	7721.3	8274.6	9535.0	10089.6	11081.5	12742.8
62.5°	8253.2	8134.7	7754.1	7752.8	8023.8	8882.1	10500.5	10915.2	11647.5	13262.1
65°	7554.9	7480.5	7254.9	7741.4	8457.4	9756.8	11575.6	11971.4	12367.2	13715.8
67.5°	5750.0	5760.1	5743.7	6682.7	8107.0	11013.5	13132.2	13102.0	13255.7	14225.0
70°	2629.2	2688.5	3074.1	4613.1	6494.9	11158.4	15706.0	15314.0	14371.2	14884.2
72.5°	1420.5	1465.9	1623.4	2234.7	3904.8	9920.7	17629.4	17907.9	15854.7	15327.9
75°	1042.4	1067.6	1177.2	1420.5	1639.8	7373.4	16939.9	18369.2	16040.0	14293.1
77.5°	780.2	791.5	881.0	1125.5	839.4	3887.1	13535.6	15213.2	13730.9	11743.3
80°	565.9	578.5	645.3	844.5	588.6	1421.7	9294.3	10678.2	9403.9	7485.6
82.5°	390.7	395.8	424.8	574.7	410.9	552.1	5273.6	6261.7	5249.6	2626.7
85°	235.7	242.0	254.6	335.3	233.2	262.2	2276.3	2354.4	1569.2	627.7
87.5°	97.1	103.4	113.4	141.2	92.0	73.1	375.6	471.4	293.7	184.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4300.5	0°	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5
4313.1	2.5°	4306.8	4298.0	4274.1	4241.3	4211.0	4173.2	4156.8	4143.0	4130.4	4106.4
4347.2	5°	4333.3	4309.3	4245.1	4161.9	4067.3	3964.0	3863.2	3793.8	3734.6	3690.5
4386.2	7.5°	4373.6	4328.3	4211.0	4040.9	3824.1	3602.3	3401.9	3259.4	3152.3	3113.2
4441.7	10°	4415.2	4361.0	4156.8	3856.9	3482.5	3140.9	2875.0	2728.8	2643.1	2615.4
4507.2	12.5°	4464.4	4385.0	4072.4	3601.0	3100.6	2726.3	2494.4	2408.6	2364.5	2349.4
4587.9	15°	4536.2	4405.1	3945.1	3280.9	2736.4	2423.8	2273.8	2214.5	2191.9	2190.6
4671.1	17.5°	4590.4	4408.9	3747.2	2938.0	2456.5	2241.0	2117.5	2094.8	2109.9	2132.6
4753.0	20°	4650.9	4374.9	3487.6	2625.4	2259.9	2080.9	2029.3	2044.4	2080.9	2113.7
4861.4	22.5°	4693.8	4313.1	3173.7	2382.2	2089.8	1988.9	1986.4	2017.9	2038.1	2054.5
4988.7	25°	4731.6	4208.5	2841.0	2178.0	1949.9	1933.5	1961.2	1951.1	1937.3	1951.1
5116.0	27.5°	4759.3	4043.4	2543.5	1999.0	1851.5	1895.7	1879.3	1856.6	1855.3	1862.9
5266.0	30°	4750.5	3822.8	2299.0	1828.9	1782.2	1825.1	1786.0	1782.2	1778.4	1782.2
5491.6	32.5°	4750.5	3572.0	2111.2	1711.6	1738.1	1721.7	1717.9	1709.1	1694.0	1692.7
5797.9	35°	4777.0	3321.2	1949.9	1648.6	1701.6	1662.5	1665.0	1643.6	1612.1	1596.9
6203.7	37.5°	4831.2	3119.5	1789.8	1618.4	1637.3	1636.0	1625.9	1589.4	1533.9	1486.0
6710.4	40°	4962.2	3060.3	1680.1	1604.5	1607.0	1622.1	1595.7	1525.1	1399.1	1320.9
7224.7	42.5°	5167.7	3159.9	1656.2	1570.5	1586.9	1602.0	1550.3	1386.5	1297.0	1250.3
7764.1	45°	5428.6	3333.8	1707.9	1521.3	1539.0	1565.4	1411.7	1333.5	1293.2	1294.4
8298.5	47.5°	5758.8	3516.5	1803.6	1478.5	1469.6	1484.8	1319.7	1271.8	1216.3	1230.2
8811.5	50°	6140.7	3701.8	1894.4	1420.5	1392.8	1343.6	1260.4	1215.0	1144.5	1111.7
9306.9	52.5°	6554.1	3880.8	1931.0	1349.9	1309.6	1252.8	1220.1	1164.6	1078.9	1024.7
9774.5	55°	6946.1	4043.4	1890.6	1265.5	1226.4	1182.3	1177.2	1143.2	1051.2	975.6
10190.4	57.5°	7316.7	4179.5	1789.8	1179.7	1141.9	1115.5	1149.5	1133.1	1017.2	920.1
10583.7	60°	7630.5	4272.8	1643.6	1092.8	1066.3	1052.4	1104.1	1099.1	969.3	860.9
10936.6	62.5°	7880.1	4309.3	1482.2	1009.6	1003.3	978.1	1041.1	1041.1	908.8	802.9
11246.7	65°	8075.5	4274.1	1318.4	927.7	940.3	902.5	964.2	956.7	844.5	751.2
11603.3	67.5°	8248.1	4158.1	1136.9	847.0	876.0	828.1	883.5	865.9	773.9	699.5
11912.1	70°	8325.0	3888.4	930.2	766.3	801.6	755.0	802.9	770.1	694.5	644.1
11573.1	72.5°	7707.4	3231.7	732.3	681.9	712.1	674.3	715.9	678.1	608.8	586.1
9993.8	75°	6376.4	2425.0	563.4	589.9	612.6	583.6	611.3	583.6	520.5	536.9
7382.2	77.5°	4630.8	1637.3	431.1	492.8	502.9	487.8	511.7	480.2	423.5	419.7
3679.1	80°	2302.8	959.2	337.8	389.5	385.7	375.6	403.3	388.2	340.3	360.5
993.2	82.5°	666.8	410.9	245.8	273.5	265.9	268.5	288.6	296.2	443.7	439.9
308.8	85°	209.2	161.3	147.5	152.5	144.9	148.7	170.2	337.8	312.6	182.8
95.8	87.5°	54.2	55.5	36.6	39.1	40.3	47.9	54.2	205.4	98.3	64.3
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>
4300.5
4095.1
3653.9
3045.2
2572.5
2353.2
2195.6
2141.4
2125.1
2063.3
1959.9
1875.5
1796.1
1709.1
1612.1
1502.4
1331.0
1250.3
1300.7
1265.5
1120.5
1023.5
975.6
915.1
857.1
799.1
746.2
694.5
634.0
567.2
490.3
400.8
356.7
450.0
197.9
68.1
0.0

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