

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: P953574

Luminaire Tested: **GALN-SB7A-830-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953574  
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-SB7A-830-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

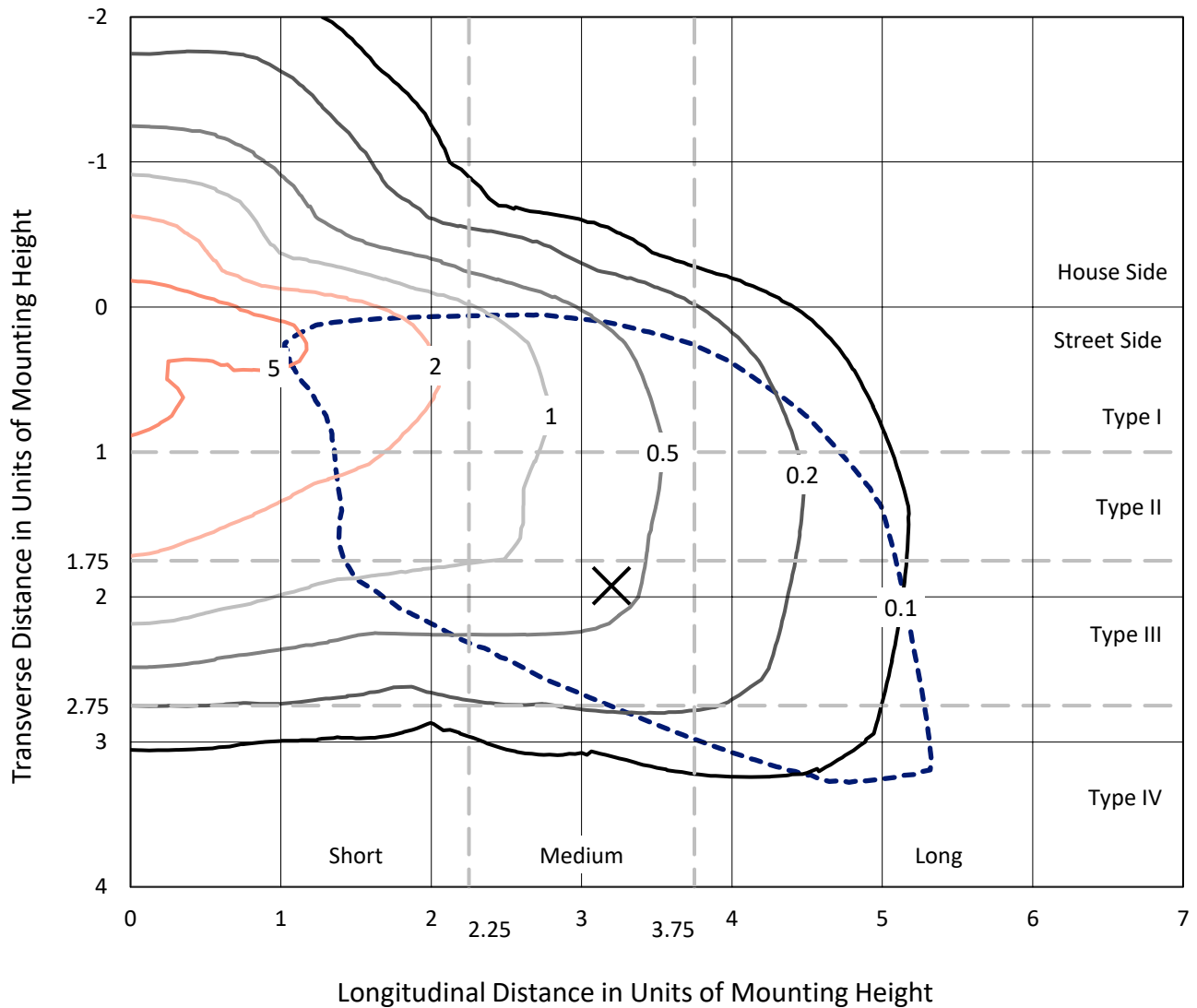
Lumens per Lamp: N/A  
Luminaire Lumens: 28015 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

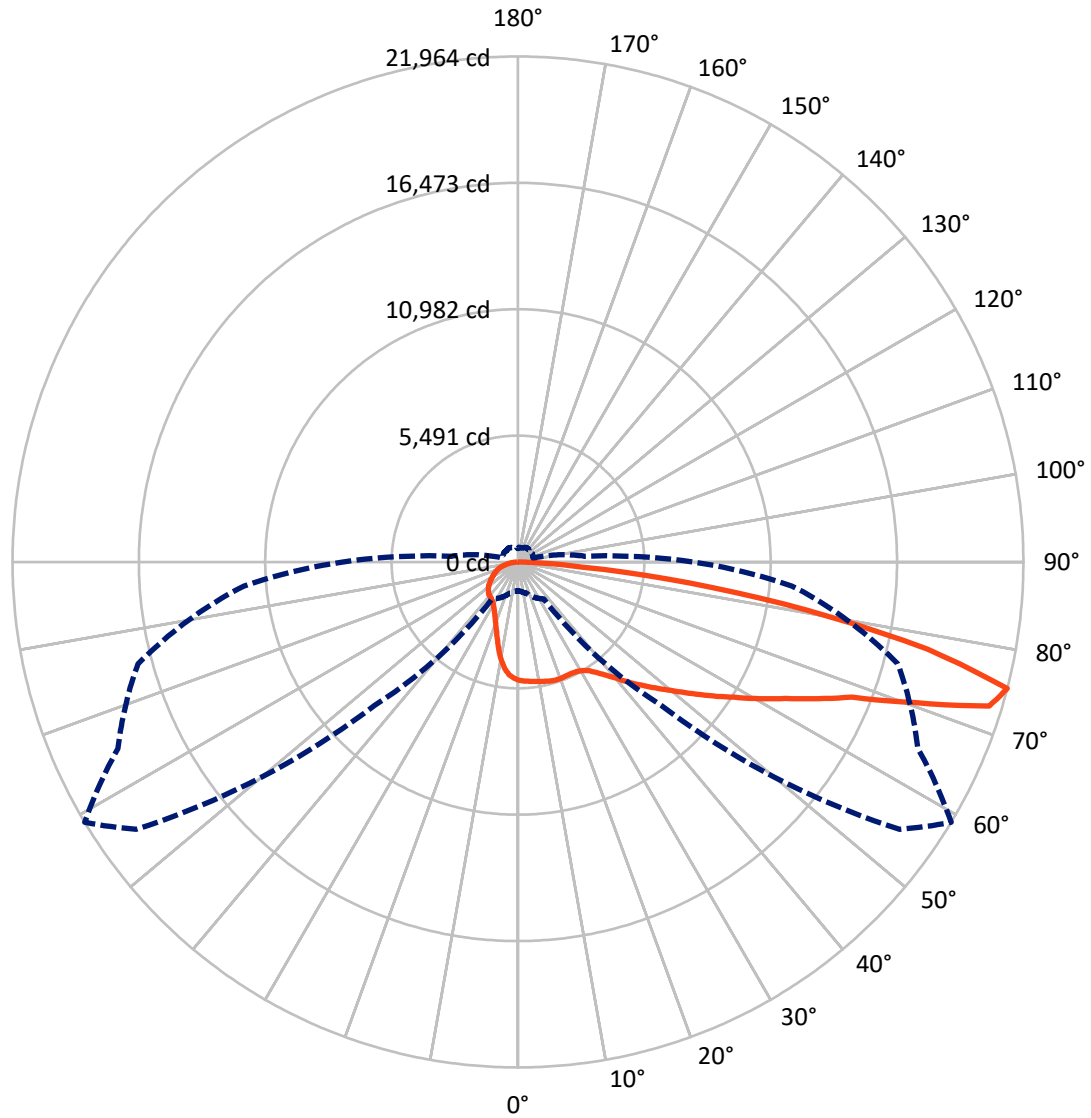
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	5254.4	0.0	5254.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	22760.6	0.0	22760.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	28015.0	0.0	28015.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.1	1.6
10°-20°	1178.5	4.2
20°-30°	1790.1	6.4
30°-40°	2660.9	9.5
40°-50°	3957.3	14.1
50°-60°	5371.5	19.2
60°-70°	6557.7	23.4
70°-80°	5146.4	18.4
80°-90°	891.5	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°	28015.0	100.0
0°-180°	28015.0	100.0

**Coefficient of Utilization**



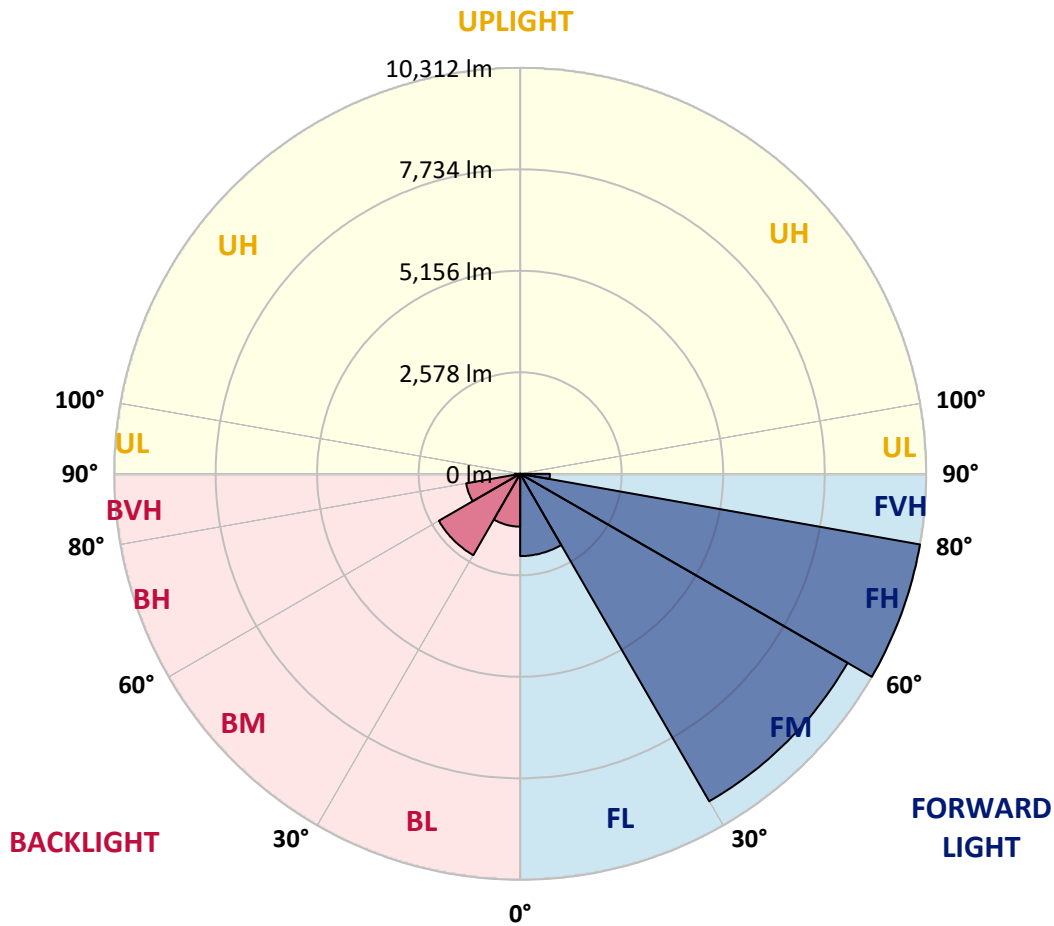
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2088.8	7.5			
FM (30°-60°)	9604.7	34.3			
FH (60°-80°)	10312.0	36.8			G4/12000
FVH (80°-90°)	755.0	2.7			G5
BL (0°-30°)	1340.9	4.8	B3/2500		
BM (30°-60°)	2385.0	8.5	B2/2500		
BH (60°-80°)	1392.1	5.0	B3/2500		G3/2500
BVH (80°-90°)	136.5	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-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	5142.1	5142.1	5142.1	5142.1	5142.1	5142.1	5142.1	5142.1	5142.1	5142.1
2.5°	5185.8	5167.7	5185.8	5178.3	5175.2	5169.2	5170.7	5181.3	5175.2	5182.8
5°	5151.1	5140.6	5158.7	5154.1	5173.7	5176.8	5196.3	5208.4	5215.9	5217.4
7.5°	5093.9	5083.3	5108.9	5130.0	5172.2	5184.3	5225.0	5244.6	5255.1	5273.2
10°	4884.4	4879.9	4943.2	5023.0	5122.5	5184.3	5246.1	5279.2	5295.8	5344.0
12.5°	4513.6	4519.7	4602.6	4756.3	4955.2	5154.1	5270.2	5318.4	5344.0	5404.3
15°	4159.5	4158.0	4248.4	4412.7	4691.5	5021.5	5282.2	5365.1	5408.8	5497.8
17.5°	3954.5	3948.5	4011.8	4136.9	4396.1	4818.1	5252.1	5390.8	5484.2	5595.7
20°	3916.9	3904.8	3937.9	3999.7	4183.6	4595.0	5173.7	5390.8	5544.5	5689.2
22.5°	4054.0	4034.4	4020.8	4013.3	4094.7	4411.2	5084.8	5372.7	5633.4	5823.3
25°	4329.8	4299.6	4230.3	4162.5	4138.4	4328.3	5006.5	5368.1	5766.0	6004.1
27.5°	4775.9	4738.2	4598.0	4435.3	4289.1	4370.5	4971.8	5395.3	5912.2	6195.5
30°	5329.0	5288.3	5111.9	4861.8	4599.5	4527.2	5015.5	5475.2	6099.1	6450.2
32.5°	5824.8	5779.6	5628.9	5374.2	5020.0	4798.5	5154.1	5627.4	6393.0	6804.4
35°	6264.9	6212.1	6076.5	5841.4	5535.4	5179.8	5404.3	5897.1	6810.4	7380.1
37.5°	6695.9	6634.1	6486.4	6237.7	6023.7	5687.6	5749.4	6243.8	7365.0	8079.4
40°	7178.1	7089.2	6909.9	6664.2	6456.2	6282.9	6203.1	6668.7	7928.6	8860.0
42.5°	7645.3	7560.9	7346.9	7137.4	6876.7	6827.0	6729.0	7166.1	8545.0	9717.5
45°	8148.7	8047.7	7788.5	7523.2	7359.0	7188.7	7238.4	7663.4	9149.4	10591.6
47.5°	8620.4	8507.4	8201.4	7906.0	7815.6	7493.1	7705.6	8210.5	9777.8	11477.8
50°	8875.1	8763.6	8508.9	8242.1	8171.3	7868.4	8212.0	8811.8	10436.4	12360.9
52.5°	9087.6	8967.0	8634.0	8486.3	8465.2	8276.8	8835.9	9499.0	11095.0	13141.6
55°	9313.6	9179.5	8754.5	8621.9	8718.3	8734.9	9575.9	10278.2	11791.2	13902.6
57.5°	9574.4	9404.1	8870.6	8736.4	8965.5	9271.4	10425.8	11085.9	12475.4	14607.9
60°	9820.0	9648.2	9093.6	8918.8	9232.3	9893.9	11400.9	12064.0	13250.1	15236.4
62.5°	9868.2	9726.6	9271.4	9269.9	9593.9	10620.3	12555.3	13051.1	13926.7	15857.3
65°	9033.3	8944.4	8674.6	9256.4	10112.4	11666.2	13840.8	14314.1	14787.3	16399.8
67.5°	6875.2	6887.3	6867.7	7990.4	9693.4	13168.7	15702.1	15665.9	15849.8	17008.7
70°	3143.7	3214.6	3675.7	5515.8	7765.9	13342.0	18779.5	18310.8	17183.5	17796.9
72.5°	1698.5	1752.7	1941.1	2672.0	4668.9	11862.1	21079.3	21412.3	18957.3	18327.4
75°	1246.3	1276.5	1407.6	1698.5	1960.7	8816.3	20254.9	21963.9	19178.9	17090.1
77.5°	932.9	946.4	1053.4	1345.8	1003.7	4647.8	16184.3	18190.2	16417.9	14041.3
80°	676.7	691.7	771.6	1009.7	703.8	1700.0	11113.1	12767.8	11244.2	8950.4
82.5°	467.2	473.2	507.9	687.2	491.3	660.1	6305.5	7487.1	6276.9	3140.7
85°	281.8	289.4	304.4	400.9	278.8	313.5	2721.8	2815.2	1876.3	750.5
87.5°	116.0	123.6	135.6	168.8	110.0	87.4	449.1	563.6	351.1	220.0
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°
5142.1	0°	5142.1	5142.1	5142.1	5142.1	5142.1	5142.1	5142.1	5142.1	5142.1	5142.1
5157.2	2.5°	5149.6	5139.1	5110.4	5071.3	5035.1	4989.9	4970.3	4953.7	4938.6	4910.0
5197.9	5°	5181.3	5152.6	5075.8	4976.3	4863.3	4739.7	4619.1	4536.3	4465.4	4412.7
5244.6	7.5°	5229.5	5175.2	5035.1	4831.6	4572.4	4307.2	4067.6	3897.3	3769.2	3722.4
5310.9	10°	5279.2	5214.4	4970.3	4611.6	4164.0	3755.6	3437.6	3262.8	3160.3	3127.2
5389.2	12.5°	5338.0	5243.1	4869.3	4305.7	3707.4	3259.8	2982.5	2880.0	2827.2	2809.2
5485.7	15°	5423.9	5267.2	4717.1	3922.9	3271.8	2898.1	2718.7	2647.9	2620.8	2619.3
5585.2	17.5°	5488.7	5271.7	4480.5	3513.0	2937.3	2679.6	2531.9	2504.7	2522.8	2549.9
5683.1	20°	5561.1	5231.0	4170.0	3139.2	2702.2	2488.2	2426.4	2444.5	2488.2	2527.3
5812.7	22.5°	5612.3	5157.2	3794.8	2848.3	2498.7	2378.1	2375.1	2412.8	2436.9	2456.5
5964.9	25°	5657.5	5032.1	3396.9	2604.2	2331.4	2311.8	2345.0	2332.9	2316.4	2332.9
6117.2	27.5°	5690.7	4834.7	3041.2	2390.2	2213.9	2266.6	2247.0	2219.9	2218.4	2227.4
6296.5	30°	5680.1	4570.9	2748.9	2186.7	2131.0	2182.2	2135.5	2131.0	2126.5	2131.0
6566.3	32.5°	5680.1	4271.0	2524.3	2046.6	2078.2	2058.6	2054.1	2043.6	2025.5	2024.0
6932.5	35°	5711.8	3971.1	2331.4	1971.2	2034.5	1987.8	1990.8	1965.2	1927.5	1909.4
7417.8	37.5°	5776.6	3730.0	2140.0	1935.1	1957.7	1956.2	1944.1	1900.4	1834.1	1776.8
8023.6	40°	5933.3	3659.1	2008.9	1918.5	1921.5	1939.6	1907.9	1823.5	1672.8	1579.4
8638.5	42.5°	6178.9	3778.2	1980.3	1877.8	1897.4	1915.5	1853.7	1657.8	1550.8	1495.0
9283.5	45°	6490.9	3986.2	2042.1	1819.0	1840.1	1871.8	1687.9	1594.5	1546.2	1547.8
9922.5	47.5°	6885.8	4204.7	2156.6	1767.8	1757.2	1775.3	1577.9	1520.6	1454.3	1470.9
10535.9	50°	7342.4	4426.2	2265.1	1698.5	1665.3	1606.5	1507.1	1452.8	1368.4	1329.2
11128.1	52.5°	7836.7	4640.2	2308.8	1614.1	1565.8	1498.0	1458.8	1392.5	1290.0	1225.2
11687.3	55°	8305.4	4834.7	2260.6	1513.1	1466.4	1413.6	1407.6	1366.9	1256.9	1166.5
12184.6	57.5°	8748.5	4997.4	2140.0	1410.6	1365.4	1333.7	1374.4	1354.8	1216.2	1100.2
12654.8	60°	9123.7	5108.9	1965.2	1306.6	1275.0	1258.4	1320.2	1314.2	1158.9	1029.3
13076.8	62.5°	9422.1	5152.6	1772.3	1207.2	1199.6	1169.5	1244.8	1244.8	1086.6	960.0
13447.5	65°	9655.7	5110.4	1576.4	1109.2	1124.3	1079.1	1152.9	1143.9	1009.7	898.2
13874.0	67.5°	9862.2	4971.8	1359.4	1012.7	1047.4	990.1	1056.4	1035.4	925.3	836.4
14243.2	70°	9954.1	4649.3	1112.2	916.3	958.5	902.7	960.0	920.8	830.4	770.1
13837.8	72.5°	9215.7	3864.1	875.6	815.3	851.5	806.3	856.0	810.8	727.9	700.8
11949.5	75°	7624.2	2899.6	673.7	705.3	732.4	697.8	730.9	697.8	622.4	642.0
8826.9	77.5°	5536.9	1957.7	515.4	589.3	601.3	583.2	611.9	574.2	506.4	501.9
4399.1	80°	2753.4	1146.9	403.9	465.7	461.2	449.1	482.3	464.2	406.9	431.0
1187.6	82.5°	797.2	491.3	293.9	327.0	318.0	321.0	345.1	354.2	530.5	526.0
369.2	85°	250.2	192.9	176.3	182.4	173.3	177.8	203.5	403.9	373.8	218.5
114.5	87.5°	64.8	66.3	43.7	46.7	48.2	57.3	64.8	245.7	117.6	76.9
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>
5142.1
4896.4
4369.0
3641.1
3075.9
2813.7
2625.3
2560.5
2540.9
2467.1
2343.5
2242.5
2147.6
2043.6
1927.5
1796.4
1591.5
1495.0
1555.3
1513.1
1339.8
1223.7
1166.5
1094.1
1024.8
955.5
892.2
830.4
758.1
678.2
586.2
479.2
426.5
538.0
236.6
81.4
0.0

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