

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: P956596

Luminaire Tested: **GALN-SB9A-950-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956596  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-950-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

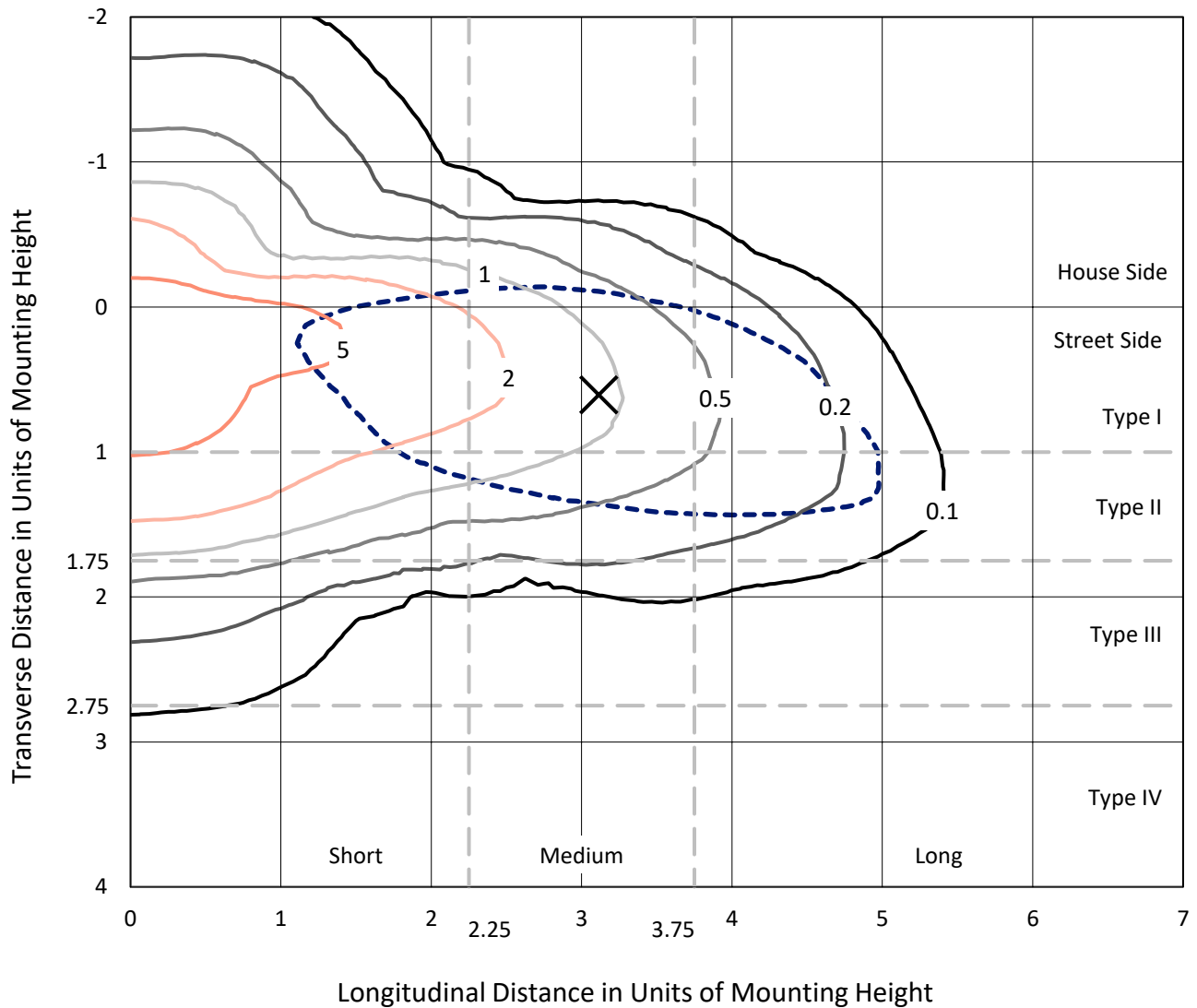
Lumens per Lamp: N/A  
Luminaire Lumens: 28251 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

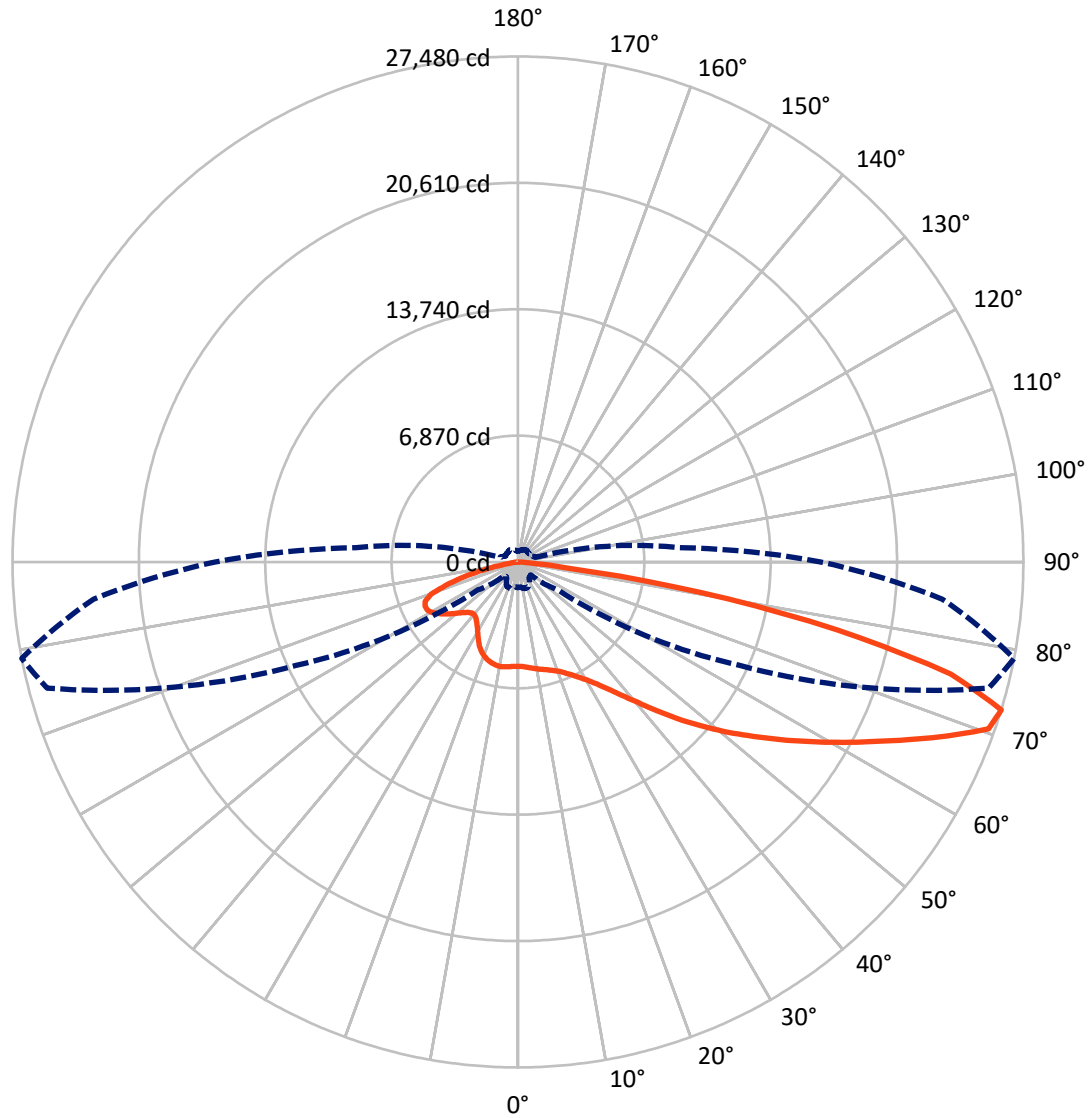
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6216.8	0.0	6216.8
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	22034.2	0.0	22034.2
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	28251.0	0.0	28251.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	514.8	1.8
10°-20°	1345.9	4.8
20°-30°	2171.7	7.7
30°-40°	3259.4	11.5
40°-50°	4623.6	16.4
50°-60°	5839.1	20.7
60°-70°	5930.4	21.0
70°-80°	4041.8	14.3
80°-90°	524.4	1.9
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°	28251.0	100.0
0°-180°	28251.0	100.0



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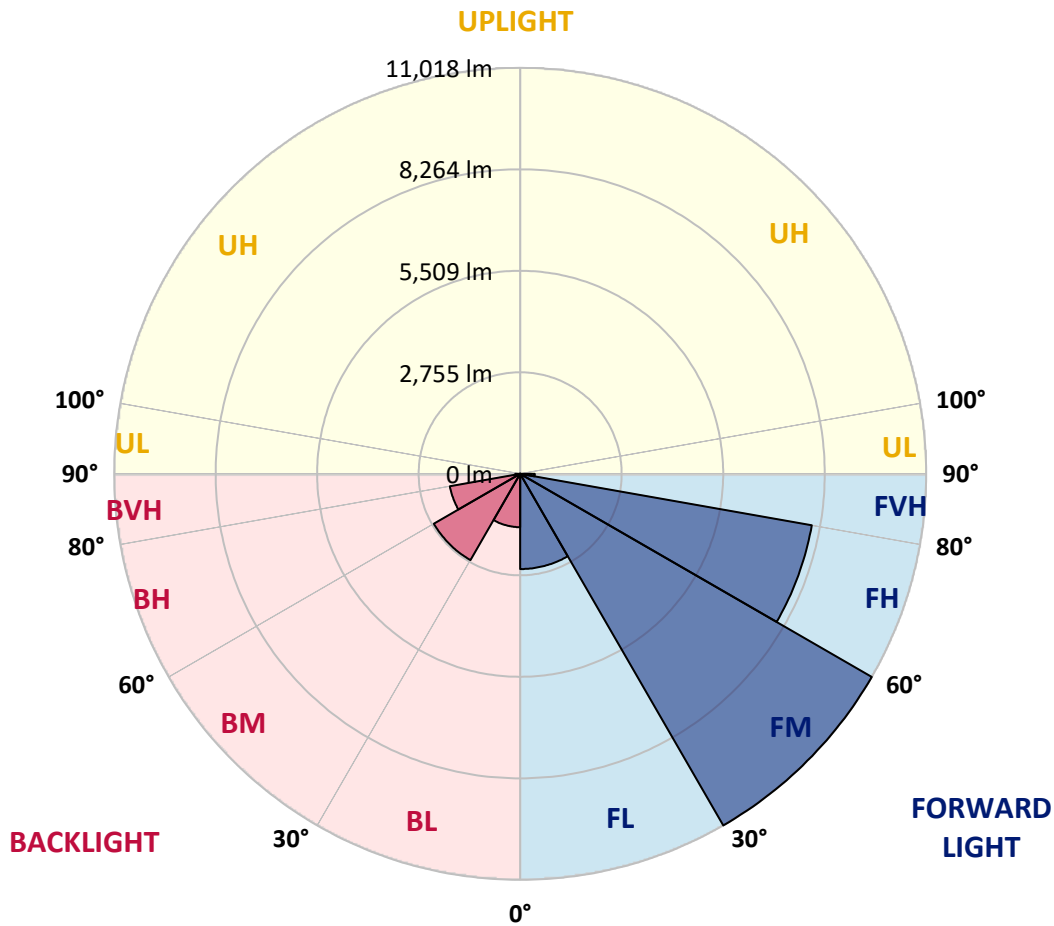
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2584.3	9.1			
FM (30°-60°)	11018.5	39.0			
FH (60°-80°)	8036.5	28.4			G4/12000
FVH (80°-90°)	395.0	1.4			G3/500
BL (0°-30°)	1448.1	5.1	B3/2500		
BM (30°-60°)	2703.6	9.6	B3/5000		
BH (60°-80°)	1935.7	6.9	B3/2500		G3/2500
BVH (80°-90°)	129.4	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	5671.1	5671.1	5671.1	5671.1	5671.1	5671.1	5671.1	5671.1	5671.1	5671.1
2.5°	5674.1	5647.2	5663.6	5657.7	5665.1	5674.1	5677.1	5681.6	5696.5	5695.0
5°	5662.2	5635.3	5657.7	5650.2	5669.6	5690.5	5708.5	5724.9	5748.8	5759.3
7.5°	5636.7	5618.8	5641.2	5663.6	5699.5	5730.9	5756.3	5793.7	5828.0	5834.0
10°	5488.8	5475.4	5527.7	5585.9	5684.6	5769.7	5825.0	5868.4	5905.7	5911.7
12.5°	5334.9	5318.4	5376.7	5455.9	5615.8	5769.7	5886.3	5943.1	5976.0	5995.4
15°	5309.5	5296.0	5328.9	5397.7	5530.6	5729.4	5928.2	6032.8	6061.1	6083.6
17.5°	5432.0	5406.6	5420.1	5444.0	5521.7	5692.0	5961.0	6134.4	6177.7	6201.6
20°	5716.0	5680.1	5659.2	5611.3	5597.9	5698.0	5958.0	6256.9	6313.7	6343.6
22.5°	6094.0	6070.1	6025.3	5904.2	5772.7	5771.2	6014.8	6413.8	6519.9	6548.3
25°	6551.3	6515.4	6458.7	6294.3	6041.7	5916.2	6110.5	6614.1	6791.9	6799.4
27.5°	7077.3	7023.5	6945.8	6729.1	6388.4	6143.3	6256.9	6844.2	7104.2	7101.2
30°	7631.7	7577.9	7495.7	7232.7	6803.8	6449.7	6460.1	7092.3	7474.8	7458.4
32.5°	8036.7	7996.4	7979.9	7776.7	7282.0	6811.3	6693.3	7367.2	7932.1	7917.2
35°	8347.5	8295.2	8314.7	8211.5	7803.6	7216.3	6978.7	7694.5	8488.0	8486.5
37.5°	8655.4	8609.0	8625.5	8556.7	8286.3	7730.4	7326.9	8095.0	9176.9	9209.8
40°	8936.3	8887.0	8952.7	8888.5	8661.3	8277.3	7722.9	8547.8	9974.9	10037.7
42.5°	9105.2	9066.3	9175.4	9176.9	8987.1	8739.1	8157.7	9046.9	10898.4	11038.9
45°	9163.5	9150.0	9314.4	9348.8	9275.5	9006.5	8549.3	9590.8	11893.7	12144.7
47.5°	9100.7	9075.3	9302.4	9429.5	9487.7	9132.1	8873.5	10179.6	12909.8	13277.4
50°	8783.9	8734.6	9072.3	9339.8	9547.5	9214.3	9200.8	10859.6	14065.0	14467.0
52.5°	8214.5	8177.2	8561.2	9026.0	9416.0	9254.6	9568.4	11602.3	15161.8	15681.9
55°	7486.8	7437.5	7860.4	8467.1	9088.7	9241.2	9936.0	12433.1	16456.0	16983.5
57.5°	6333.1	6234.5	6769.5	7486.8	8555.2	9224.7	10318.6	13259.5	17771.0	18403.1
60°	4650.5	4504.0	5160.0	6010.3	7512.2	9064.8	10792.3	14186.0	19349.1	19918.4
62.5°	2707.8	2622.6	3051.5	3845.0	5662.2	8123.4	11058.3	15263.5	20900.2	21498.0
65°	2102.6	2078.7	2116.0	2177.3	3151.6	6082.1	10237.9	16314.0	22872.8	23291.2
67.5°	1923.2	1905.3	1921.8	1806.7	1599.0	3387.7	8099.5	16580.0	24985.8	25239.8
70°	1709.6	1688.6	1742.4	1643.8	1258.3	1540.7	5233.3	15614.6	26667.0	27143.7
72.5°	1392.7	1368.8	1494.4	1449.5	1059.5	989.3	2628.6	13320.8	26490.6	27479.9
75°	1070.0	1056.5	1206.0	1243.3	863.7	778.6	1261.2	9901.7	23312.1	24308.9
77.5°	830.9	820.4	896.6	1032.6	696.4	603.7	775.6	6280.8	17567.8	17742.6
80°	623.2	593.3	663.5	799.5	542.5	440.8	526.0	3662.7	11104.6	10066.1
82.5°	390.0	375.1	433.4	533.5	382.6	303.4	342.2	2023.4	4450.2	2621.1
85°	222.7	216.7	236.1	304.9	207.7	174.8	195.8	893.6	812.9	558.9
87.5°	89.7	86.7	107.6	136.0	76.2	64.3	68.7	215.2	179.3	165.9
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°
5671.1	0°	5671.1	5671.1	5671.1	5671.1	5671.1	5671.1	5671.1	5671.1	5671.1	5671.1
5693.5	2.5°	5687.6	5687.6	5666.6	5633.8	5596.4	5572.5	5533.6	5523.2	5482.8	5470.9
5744.3	5°	5756.3	5744.3	5680.1	5587.4	5460.4	5343.9	5215.3	5134.6	5021.1	4980.7
5844.5	7.5°	5843.0	5810.1	5699.5	5496.3	5230.3	4968.8	4696.8	4490.6	4293.3	4223.1
5926.7	10°	5922.2	5875.8	5687.6	5331.9	4871.6	4418.8	3985.5	3682.1	3452.0	3357.8
6017.8	12.5°	6001.4	5916.2	5608.4	5058.4	4362.1	3747.9	3286.1	3050.0	2908.0	2794.5
6092.5	15°	6076.1	5956.5	5485.8	4692.3	3803.2	3180.0	2839.3	2651.0	2537.4	2462.7
6201.6	17.5°	6162.8	5990.9	5302.0	4227.6	3271.2	2787.0	2509.0	2395.5	2373.1	2364.1
6351.1	20°	6283.8	6022.3	5059.9	3707.5	2879.6	2473.2	2329.7	2319.3	2317.8	2313.3
6530.4	22.5°	6413.8	6059.7	4740.1	3235.3	2546.4	2277.4	2252.0	2231.1	2217.6	2216.1
6747.1	25°	6567.7	6071.6	4339.6	2848.3	2262.5	2184.8	2154.9	2123.5	2114.5	2114.5
6993.6	27.5°	6717.2	6031.3	3873.4	2512.0	2102.6	2099.6	2060.7	2050.3	2048.8	2053.3
7274.6	30°	6866.6	5955.0	3410.1	2201.2	2009.9	2009.9	1996.5	2003.9	2009.9	2024.9
7660.1	32.5°	7068.4	5874.4	3023.1	1971.1	1929.2	1914.3	1927.7	1942.7	1948.7	1968.1
8166.7	35°	7364.2	5817.6	2715.3	1845.5	1845.5	1826.1	1833.6	1830.6	1817.1	1808.2
8779.4	37.5°	7755.8	5814.6	2461.2	1787.3	1775.3	1772.3	1773.8	1754.4	1702.1	1639.3
9520.6	40°	8226.5	5895.3	2265.5	1746.9	1737.9	1755.9	1746.9	1694.6	1551.2	1442.1
10432.2	42.5°	8858.6	6125.4	2139.9	1697.6	1724.5	1746.9	1711.0	1530.2	1433.1	1359.9
11470.8	45°	9602.8	6499.0	2075.7	1645.3	1699.1	1726.0	1552.6	1473.4	1395.7	1307.6
12603.5	47.5°	10445.6	6969.7	2060.7	1596.0	1642.3	1658.7	1485.4	1449.5	1361.4	1265.7
13742.2	50°	11363.2	7527.1	2101.1	1537.7	1560.1	1503.3	1463.0	1430.1	1339.0	1244.8
14909.3	52.5°	12312.1	8141.3	2181.8	1458.5	1477.9	1415.2	1454.0	1425.6	1325.5	1198.5
16115.2	55°	13244.6	8760.0	2259.5	1365.9	1394.2	1336.0	1428.6	1407.7	1264.2	1120.8
17401.9	57.5°	14192.0	9375.7	2335.7	1283.7	1313.5	1259.8	1388.3	1359.9	1195.5	1049.0
18806.6	60°	15176.8	9973.4	2371.6	1204.5	1225.4	1189.5	1327.0	1277.7	1117.8	975.8
20187.4	62.5°	16098.8	10471.0	2313.3	1125.3	1138.7	1123.8	1246.3	1180.5	1040.1	893.6
21626.5	65°	17023.8	10766.9	2134.0	1047.6	1050.5	1043.1	1132.7	1075.9	948.9	821.9
22886.2	67.5°	17862.2	10932.8	1848.5	963.9	956.4	953.4	1026.6	962.4	860.8	750.2
23844.1	70°	18040.0	10511.4	1412.2	865.2	865.2	857.8	910.1	844.3	763.6	674.0
23158.2	72.5°	16476.9	8842.2	1002.7	753.2	765.1	750.2	793.5	738.2	665.0	605.2
19958.8	75°	13286.4	6484.1	729.3	638.1	659.0	633.6	674.0	635.1	572.3	570.8
13754.1	77.5°	9129.1	4009.4	529.0	526.0	541.0	508.1	554.4	533.5	476.7	451.3
5986.4	80°	3895.8	1599.0	385.5	406.5	406.5	376.6	430.4	436.4	387.0	375.1
1155.1	82.5°	775.6	454.3	270.5	279.4	263.0	254.0	304.9	337.7	466.2	518.5
348.2	85°	233.1	167.4	162.9	152.4	134.5	136.0	179.3	339.2	418.4	239.1
115.1	87.5°	64.3	41.8	43.3	34.4	28.4	37.4	61.3	257.0	140.5	59.8
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>
5671.1
5490.3
5010.6
4232.0
3378.8
2831.8
2476.2
2370.1
2328.2
2232.6
2123.5
2065.2
2035.3
1984.5
1829.1
1640.8
1439.1
1356.9
1301.6
1258.3
1234.3
1189.5
1113.3
1046.1
971.3
892.1
812.9
741.2
671.0
587.3
514.1
422.9
375.1
520.0
206.2
50.8
0.0

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