

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: P951514

Luminaire Tested: **GALN-SB5C-927-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951514
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-SB5C-927-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22888 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

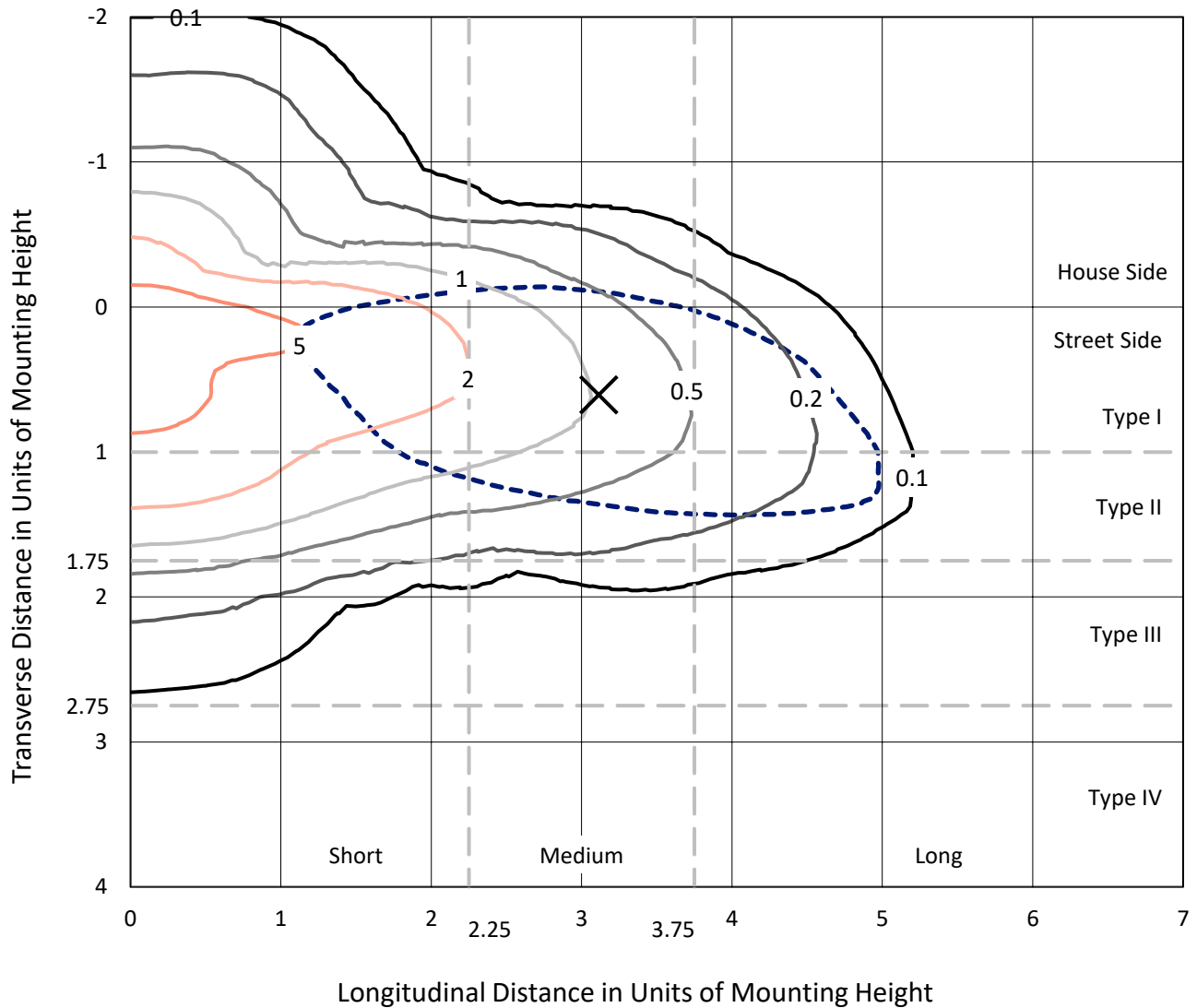
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

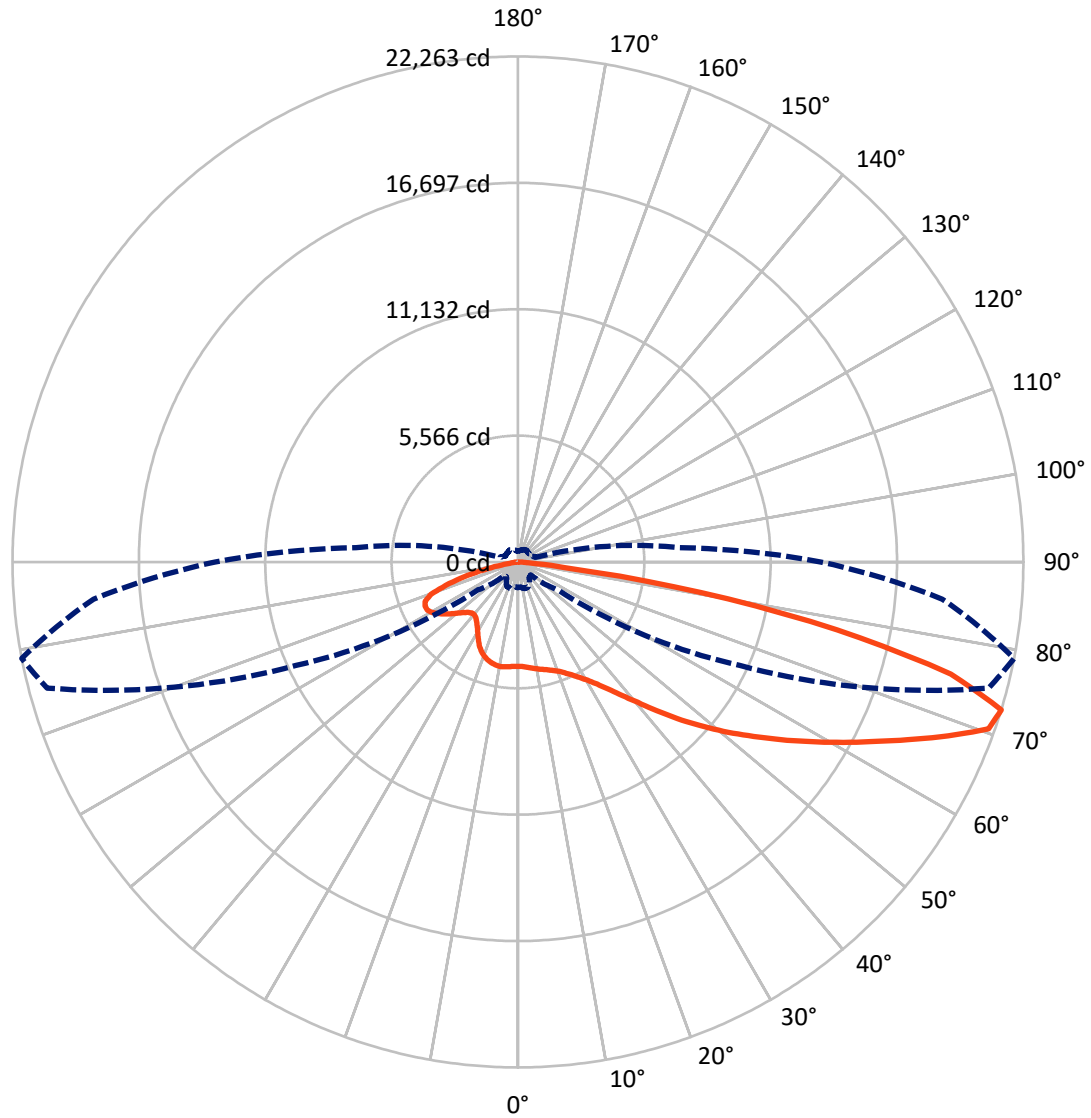
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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
House Side	Lumens	5036.6	0.0	5036.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	17851.4	0.0	17851.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	22888.0	0.0	22888.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.1	1.8
10°-20°	1090.4	4.8
20°-30°	1759.4	7.7
30°-40°	2640.7	11.5
40°-50°	3745.9	16.4
50°-60°	4730.6	20.7
60°-70°	4804.6	21.0
70°-80°	3274.5	14.3
80°-90°	424.8	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°	22888.0	100.0
0°-180°	22888.0	100.0



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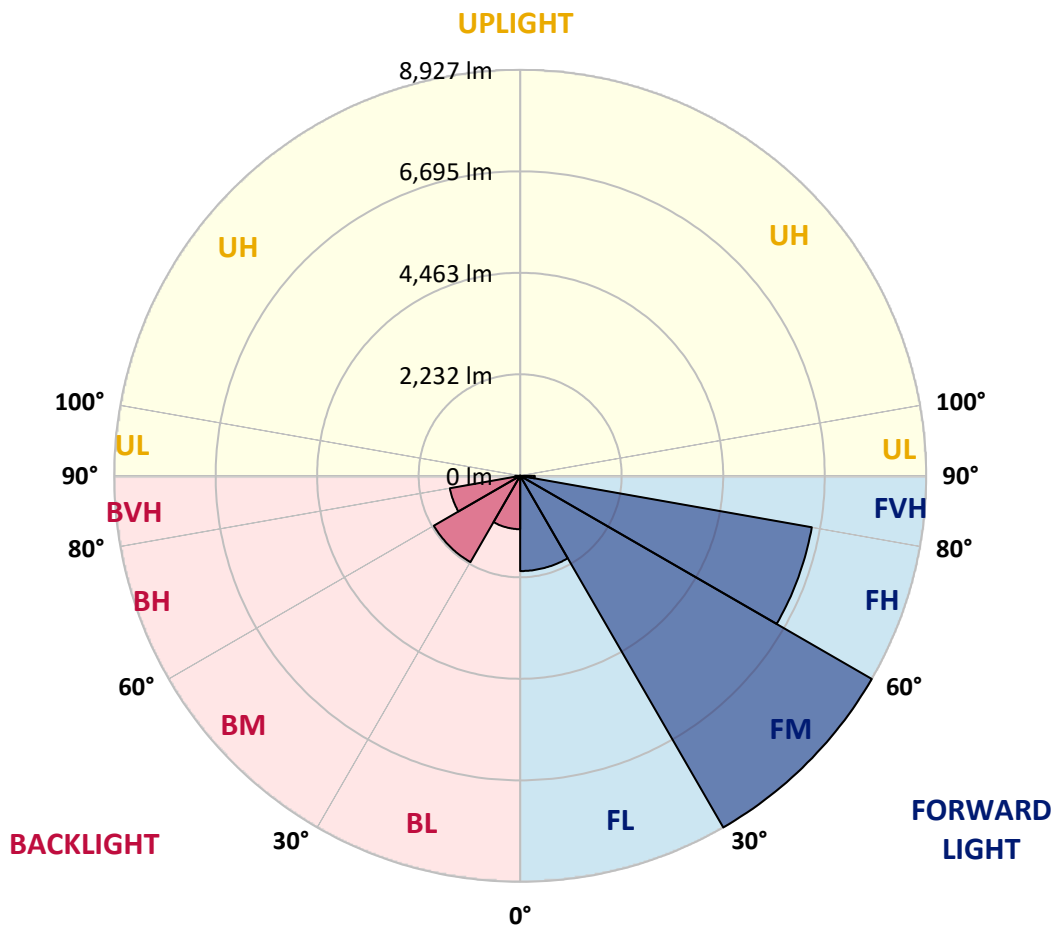
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2093.7	9.1			
FM (30°-60°)	8926.8	39.0			
FH (60°-80°)	6510.9	28.4			G3/7500
FVH (80°-90°)	320.0	1.4			G3/500
BL (0°-30°)	1173.2	5.1	B3/2500		
BM (30°-60°)	2190.4	9.6	B2/2500		
BH (60°-80°)	1568.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	104.8	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4594.5	4594.5	4594.5	4594.5	4594.5	4594.5	4594.5	4594.5	4594.5	4594.5
2.5°	4597.0	4575.2	4588.5	4583.7	4589.7	4597.0	4599.4	4603.0	4615.1	4613.9
5°	4587.3	4565.5	4583.7	4577.6	4593.3	4610.3	4624.8	4638.1	4657.5	4666.0
7.5°	4566.7	4552.2	4570.3	4588.5	4617.6	4643.0	4663.6	4693.8	4721.7	4726.5
10°	4446.8	4435.9	4478.3	4525.5	4605.4	4674.5	4719.2	4754.4	4784.6	4789.5
12.5°	4322.1	4308.8	4356.0	4420.2	4549.8	4674.5	4768.9	4814.9	4841.5	4857.3
15°	4301.6	4290.7	4317.3	4373.0	4480.7	4641.8	4802.8	4887.5	4910.5	4928.7
17.5°	4400.8	4380.3	4391.2	4410.5	4473.5	4611.5	4829.4	4969.9	5005.0	5024.3
20°	4630.9	4601.8	4584.9	4546.1	4535.2	4616.3	4827.0	5069.1	5115.1	5139.4
22.5°	4937.2	4917.8	4881.5	4783.4	4676.9	4675.7	4873.0	5196.3	5282.2	5305.2
25°	5307.6	5278.6	5232.6	5099.4	4894.8	4793.1	4950.5	5358.5	5502.6	5508.6
27.5°	5733.8	5690.2	5627.3	5451.7	5175.7	4977.1	5069.1	5544.9	5755.6	5753.2
30°	6183.0	6139.4	6072.8	5859.7	5512.2	5225.3	5233.8	5745.9	6055.8	6042.5
32.5°	6511.1	6478.4	6465.1	6300.4	5899.7	5518.3	5422.7	5968.7	6426.3	6414.2
35°	6762.9	6720.5	6736.2	6652.7	6322.2	5846.4	5653.9	6233.8	6876.7	6875.5
37.5°	7012.3	6974.8	6988.1	6932.4	6713.2	6262.9	5936.0	6558.3	7434.8	7461.4
40°	7239.9	7199.9	7253.2	7201.2	7017.1	6706.0	6256.8	6925.1	8081.3	8132.2
42.5°	7376.7	7345.2	7433.6	7434.8	7281.1	7080.1	6609.1	7329.5	8829.5	8943.3
45°	7423.9	7413.0	7546.2	7574.0	7514.7	7296.8	6926.3	7770.2	9635.8	9839.2
47.5°	7373.1	7352.5	7536.5	7639.4	7686.6	7398.5	7189.0	8247.2	10459.1	10756.9
50°	7116.4	7076.5	7350.1	7566.8	7735.1	7465.1	7454.2	8798.0	11395.0	11720.6
52.5°	6655.1	6624.9	6936.0	7312.5	7628.5	7497.8	7752.0	9399.8	12283.6	12704.9
55°	6065.5	6025.6	6368.2	6859.7	7363.4	7486.9	8049.8	10072.9	13332.1	13759.4
57.5°	5130.9	5051.0	5484.4	6065.5	6931.2	7473.6	8359.8	10742.4	14397.5	14909.6
60°	3767.7	3649.0	4180.5	4869.4	6086.1	7344.0	8743.6	11493.0	15675.9	16137.2
62.5°	2193.8	2124.8	2472.2	3115.1	4587.3	6581.3	8959.1	12365.9	16932.6	17416.9
65°	1703.4	1684.1	1714.3	1764.0	2553.3	4927.5	8294.4	13217.0	18530.7	18869.7
67.5°	1558.2	1543.6	1556.9	1463.7	1295.4	2744.6	6561.9	13432.5	20242.6	20448.5
70°	1385.0	1368.1	1411.7	1331.8	1019.4	1248.2	4239.8	12650.4	21604.7	21990.9
72.5°	1128.4	1109.0	1210.7	1174.4	858.4	801.5	2129.6	10792.0	21461.8	22263.3
75°	866.9	856.0	977.0	1007.3	699.8	630.8	1021.8	8022.0	18886.7	19694.2
77.5°	673.1	664.7	726.4	836.6	564.2	489.1	628.3	5088.5	14232.8	14374.5
80°	504.9	480.6	537.5	647.7	439.5	357.2	426.2	2967.4	8996.6	8155.2
82.5°	316.0	303.9	351.1	432.2	309.9	245.8	277.2	1639.3	3605.4	2123.5
85°	180.4	175.5	191.3	247.0	168.3	141.7	158.6	724.0	658.6	452.8
87.5°	72.6	70.2	87.2	110.2	61.7	52.1	55.7	174.3	145.3	134.4
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°
4594.5	0°	4594.5	4594.5	4594.5	4594.5	4594.5	4594.5	4594.5	4594.5	4594.5	4594.5
4612.7	2.5°	4607.9	4607.9	4590.9	4564.3	4534.0	4514.6	4483.2	4474.7	4442.0	4432.3
4653.9	5°	4663.6	4653.9	4601.8	4526.8	4423.8	4329.4	4225.3	4159.9	4067.9	4035.2
4735.0	7.5°	4733.8	4707.1	4617.6	4452.9	4237.4	4025.5	3805.2	3638.1	3478.3	3421.4
4801.6	10°	4797.9	4760.4	4607.9	4319.7	3946.8	3580.0	3228.9	2983.1	2796.7	2720.4
4875.4	12.5°	4862.1	4793.1	4543.7	4098.2	3534.0	3036.4	2662.3	2471.0	2356.0	2264.0
4936.0	15°	4922.6	4825.8	4444.4	3801.5	3081.2	2576.3	2300.3	2147.8	2055.7	1995.2
5024.3	17.5°	4992.9	4853.6	4295.5	3425.0	2650.2	2257.9	2032.7	1940.7	1922.6	1915.3
5145.4	20°	5090.9	4879.1	4099.4	3003.7	2333.0	2003.7	1887.5	1879.0	1877.8	1874.1
5290.7	22.5°	5196.3	4909.3	3840.3	2621.1	2063.0	1845.1	1824.5	1807.6	1796.7	1795.4
5466.2	25°	5321.0	4919.0	3515.8	2307.6	1833.0	1770.0	1745.8	1720.4	1713.1	1713.1
5666.0	27.5°	5442.0	4886.3	3138.1	2035.2	1703.4	1701.0	1669.5	1661.1	1659.8	1663.5
5893.6	30°	5563.1	4824.6	2762.8	1783.3	1628.4	1628.4	1617.5	1623.5	1628.4	1640.5
6206.0	32.5°	5726.5	4759.2	2449.2	1596.9	1563.0	1550.9	1561.8	1573.9	1578.7	1594.5
6616.4	35°	5966.3	4713.2	2199.8	1495.2	1495.2	1479.5	1485.5	1483.1	1472.2	1464.9
7112.8	37.5°	6283.5	4710.8	1994.0	1448.0	1438.3	1435.9	1437.1	1421.3	1379.0	1328.1
7713.3	40°	6664.8	4776.2	1835.4	1415.3	1408.0	1422.6	1415.3	1372.9	1256.7	1168.3
8451.8	42.5°	7176.9	4962.6	1733.7	1375.3	1397.1	1415.3	1386.2	1239.7	1161.0	1101.7
9293.2	45°	7779.9	5265.3	1681.6	1333.0	1376.5	1398.3	1257.9	1193.7	1130.8	1059.3
10210.9	47.5°	8462.7	5646.6	1669.5	1293.0	1330.5	1343.9	1203.4	1174.4	1102.9	1025.4
11133.5	50°	9206.0	6098.2	1702.2	1245.8	1264.0	1217.9	1185.3	1158.6	1084.8	1008.5
12079.0	52.5°	9974.8	6595.8	1767.6	1181.6	1197.4	1146.5	1178.0	1155.0	1073.9	971.0
13056.0	55°	10730.3	7097.0	1830.6	1106.6	1129.6	1082.4	1157.4	1140.5	1024.2	908.0
14098.4	57.5°	11497.9	7595.8	1892.3	1040.0	1064.2	1020.6	1124.7	1101.7	968.5	849.9
15236.5	60°	12295.7	8080.1	1921.4	975.8	992.8	963.7	1075.1	1035.1	905.6	790.6
16355.1	62.5°	13042.7	8483.3	1874.1	911.6	922.5	910.4	1009.7	956.4	842.6	724.0
17521.0	65°	13792.1	8723.0	1728.9	848.7	851.1	845.1	917.7	871.7	768.8	665.9
18541.6	67.5°	14471.3	8857.4	1497.6	780.9	774.8	772.4	831.7	779.7	697.4	607.8
19317.7	70°	14615.4	8516.0	1144.1	701.0	701.0	694.9	737.3	684.0	618.7	546.0
18762.0	72.5°	13349.0	7163.6	812.4	610.2	619.9	607.8	642.9	598.1	538.8	490.3
16169.9	75°	10764.2	5253.2	590.8	517.0	533.9	513.3	546.0	514.5	463.7	462.5
11143.1	77.5°	7396.1	3248.3	428.6	426.2	438.3	411.6	449.2	432.2	386.2	365.6
4850.0	80°	3156.3	1295.4	312.4	329.3	329.3	305.1	348.7	353.5	313.6	303.9
935.9	82.5°	628.3	368.0	219.1	226.4	213.1	205.8	247.0	273.6	377.7	420.1
282.1	85°	188.9	135.6	132.0	123.5	109.0	110.2	145.3	274.8	339.0	193.7
93.2	87.5°	52.1	33.9	35.1	27.8	23.0	30.3	49.6	208.2	113.8	48.4
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>
4594.5
4448.1
4059.4
3428.7
2737.4
2294.2
2006.1
1920.1
1886.2
1808.8
1720.4
1673.2
1649.0
1607.8
1481.9
1329.3
1165.9
1099.3
1054.5
1019.4
1000.0
963.7
902.0
847.5
786.9
722.8
658.6
600.5
543.6
475.8
416.5
342.6
303.9
421.3
167.1
41.2
0.0

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