

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: P953742

Luminaire Tested: **GALN-SB7A-950-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953742
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-950-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 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: 21689 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

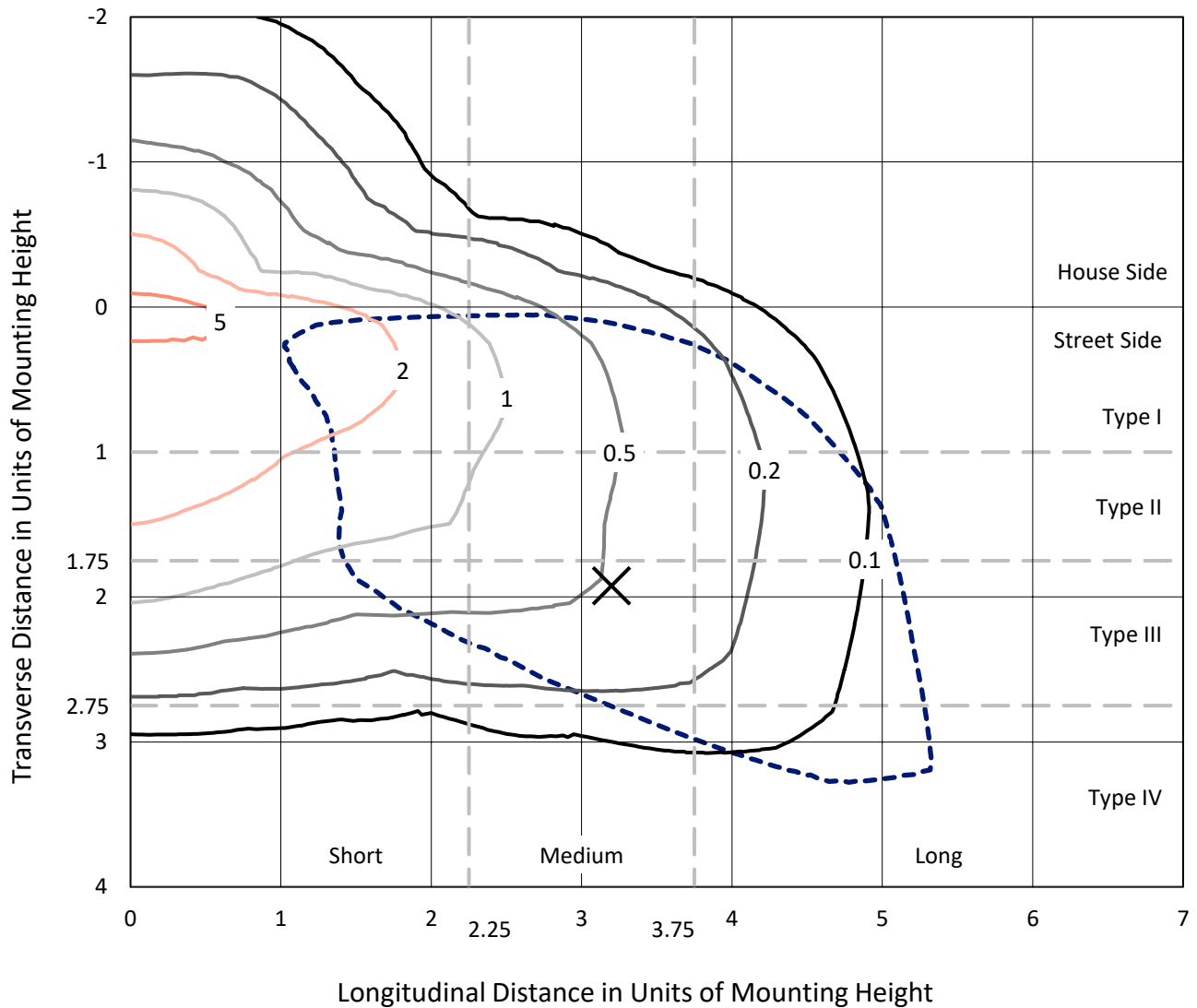
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

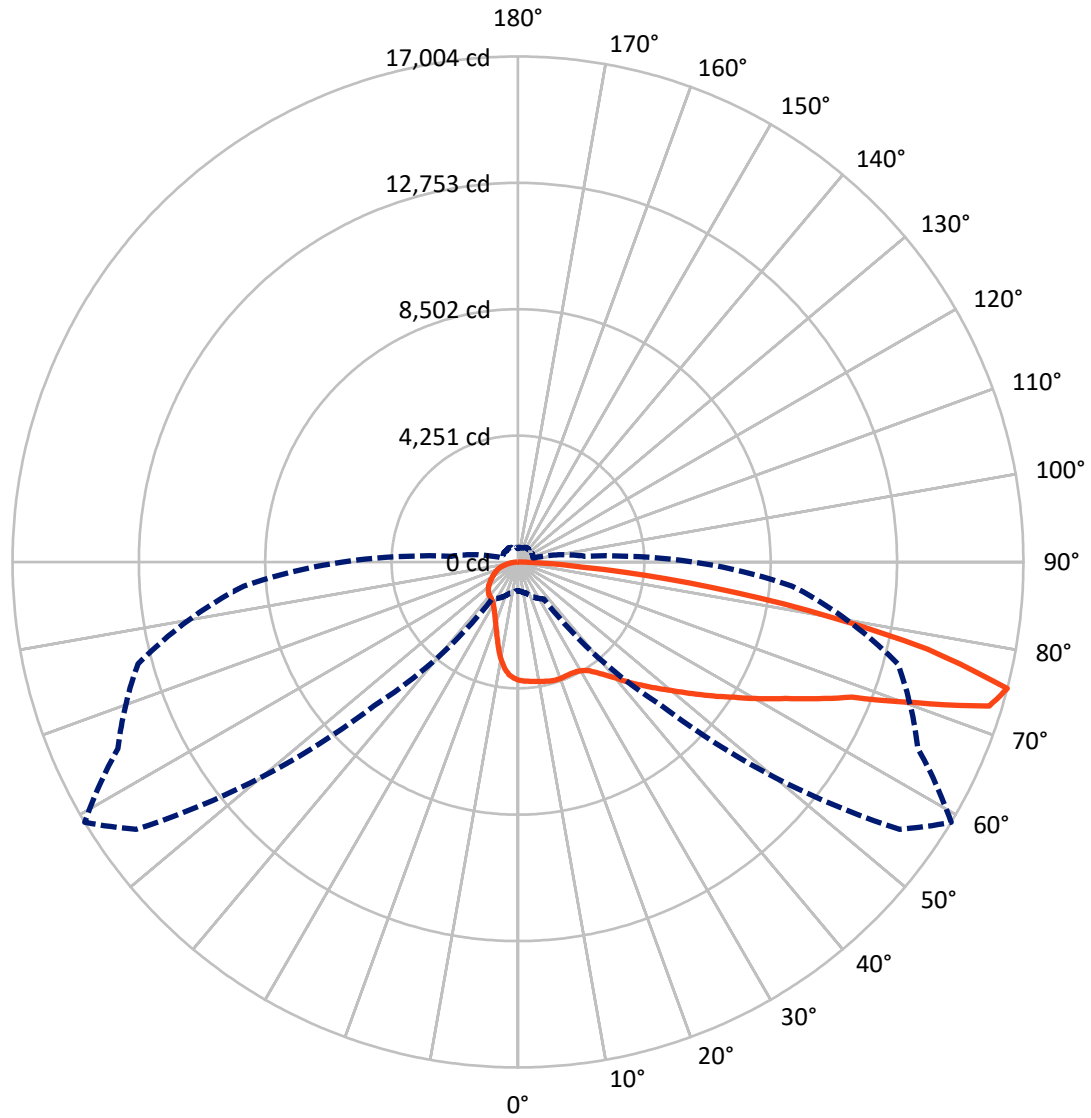
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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
House Side	Lumens	4067.9	0.0	4067.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17621.1	0.0	17621.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	21689.0	0.0	21689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.0	1.6
10°-20°	912.4	4.2
20°-30°	1385.9	6.4
30°-40°	2060.1	9.5
40°-50°	3063.7	14.1
50°-60°	4158.6	19.2
60°-70°	5076.9	23.4
70°-80°	3984.3	18.4
80°-90°	690.2	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°	21689.0	100.0
0°-180°	21689.0	100.0

Coefficient of Utilization



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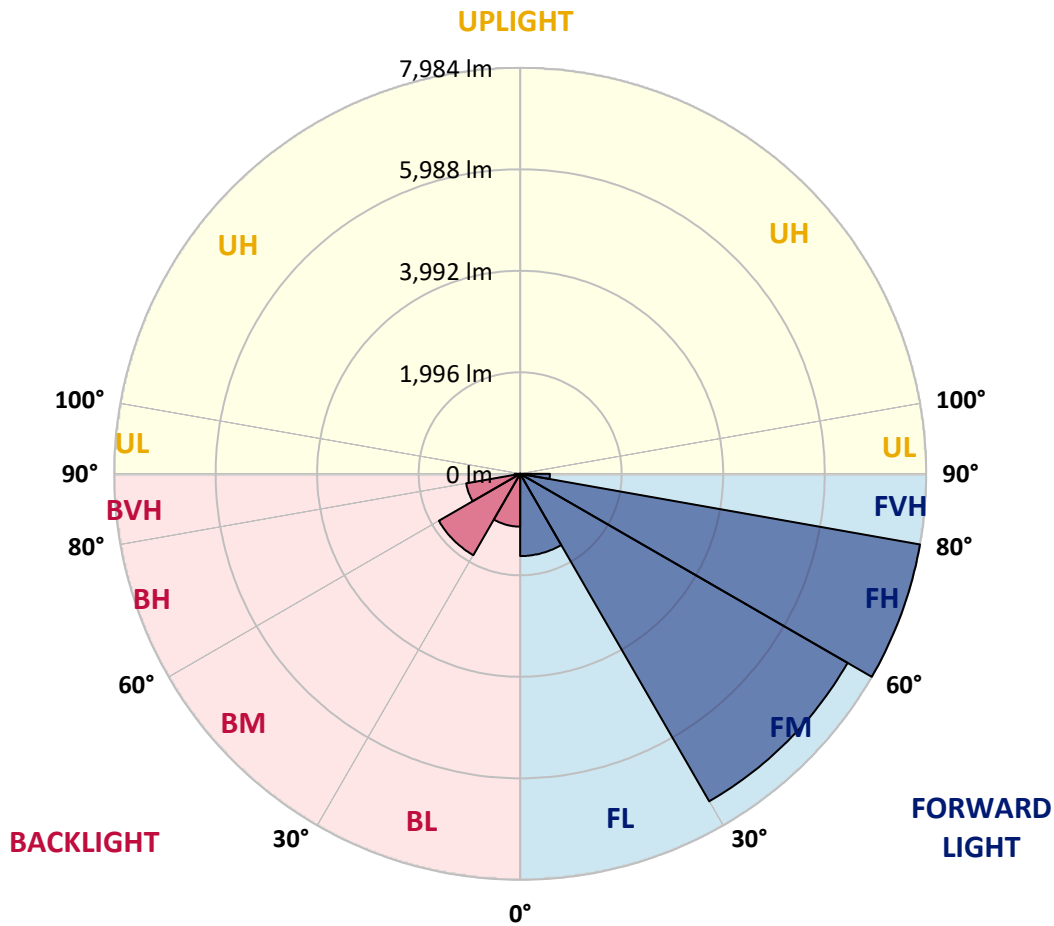
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1617.2	7.5			
FM	(30°-60°)	7435.9	34.3			
FH	(60°-80°)	7983.5	36.8			G4/12000
FVH	(80°-90°)	584.5	2.7			G4/750
BL	(0°-30°)	1038.1	4.8	B3/2500		
BM	(30°-60°)	1846.4	8.5	B2/2500		
BH	(60°-80°)	1077.7	5.0	B3/2500		G3/2500
BVH	(80°-90°)	105.7	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°	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0
2.5°	4014.8	4000.8	4014.8	4009.0	4006.6	4002.0	4003.1	4011.3	4006.6	4012.5
5°	3988.0	3979.8	3993.8	3990.3	4005.5	4007.8	4023.0	4032.3	4038.1	4039.3
7.5°	3943.6	3935.5	3955.3	3971.6	4004.3	4013.6	4045.1	4060.3	4068.5	4082.5
10°	3781.5	3778.0	3827.0	3888.8	3965.8	4013.6	4061.5	4087.1	4100.0	4137.3
12.5°	3494.4	3499.1	3563.3	3682.3	3836.3	3990.3	4080.1	4117.5	4137.3	4184.0
15°	3220.2	3219.1	3289.1	3416.3	3632.1	3887.6	4089.5	4153.6	4187.5	4256.3
17.5°	3061.6	3056.9	3105.9	3202.7	3403.4	3730.1	4066.1	4173.5	4245.8	4332.2
20°	3032.4	3023.1	3048.7	3096.6	3238.9	3557.4	4005.5	4173.5	4292.5	4404.5
22.5°	3138.6	3123.4	3112.9	3107.1	3170.1	3415.1	3936.6	4159.5	4361.3	4508.3
25°	3352.1	3328.8	3275.1	3222.6	3203.9	3350.9	3876.0	4156.0	4464.0	4648.4
27.5°	3697.4	3668.3	3559.8	3433.8	3320.6	3383.6	3849.1	4177.0	4577.2	4796.5
30°	4125.6	4094.1	3957.6	3764.0	3560.9	3504.9	3883.0	4238.8	4721.9	4993.7
32.5°	4509.5	4474.5	4357.8	4160.6	3886.5	3714.9	3990.3	4356.7	4949.4	5267.9
35°	4850.2	4809.4	4704.4	4522.3	4285.5	4010.1	4184.0	4565.5	5272.6	5713.6
37.5°	5183.9	5136.1	5021.7	4829.2	4663.5	4403.3	4451.2	4833.9	5701.9	6255.0
40°	5557.3	5488.4	5349.6	5159.4	4998.4	4864.2	4802.4	5162.9	6138.3	6859.4
42.5°	5918.9	5853.6	5687.9	5525.8	5323.9	5285.4	5209.6	5547.9	6615.5	7523.2
45°	6308.6	6230.5	6029.8	5824.4	5697.3	5565.4	5603.9	5932.9	7083.4	8200.0
47.5°	6673.8	6586.3	6349.5	6120.8	6050.8	5801.1	5965.6	6356.5	7569.9	8886.0
50°	6871.0	6784.7	6587.5	6381.0	6326.1	6091.6	6357.6	6822.0	8079.8	9569.7
52.5°	7035.5	6942.2	6684.3	6570.0	6553.7	6407.8	6840.7	7354.1	8589.6	10174.1
55°	7210.5	7106.7	6777.7	6675.0	6749.7	6762.5	7413.6	7957.3	9128.7	10763.3
57.5°	7412.4	7280.6	6867.5	6763.7	6941.0	7177.9	8071.6	8582.6	9658.4	11309.4
60°	7602.6	7469.6	7040.2	6904.9	7147.5	7659.7	8826.5	9339.9	10258.1	11795.9
62.5°	7639.9	7530.2	7177.9	7176.7	7427.6	8222.1	9720.2	10104.1	10782.0	12276.6
65°	6993.5	6924.7	6715.8	7166.2	7828.9	9031.8	10715.5	11081.8	11448.2	12696.6
67.5°	5322.7	5332.1	5316.9	6186.1	7504.6	10195.1	12156.4	12128.4	12270.8	13168.0
70°	2433.9	2488.7	2845.7	4270.3	6012.3	10329.3	14538.9	14176.1	13303.3	13778.2
72.5°	1314.9	1356.9	1502.8	2068.7	3614.6	9183.5	16319.4	16577.3	14676.6	14188.9
75°	964.9	988.2	1089.7	1314.9	1517.9	6825.5	15681.2	17004.3	14848.1	13231.0
77.5°	722.2	732.7	815.6	1041.9	777.1	3598.3	12529.8	14082.7	12710.6	10870.7
80°	523.9	535.5	597.4	781.7	544.9	1316.1	8603.7	9884.7	8705.2	6929.4
82.5°	361.7	366.4	393.2	532.0	380.4	511.0	4881.7	5796.4	4859.5	2431.5
85°	218.2	224.0	235.7	310.4	215.8	242.7	2107.2	2179.5	1452.6	581.0
87.5°	89.8	95.7	105.0	130.7	85.2	67.7	347.7	436.4	271.9	170.3
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°
3981.0	0°	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0
3992.6	2.5°	3986.8	3978.6	3956.5	3926.1	3898.1	3863.1	3848.0	3835.1	3823.5	3801.3
4024.1	5°	4011.3	3989.1	3929.6	3852.6	3765.1	3669.4	3576.1	3511.9	3457.1	3416.3
4060.3	7.5°	4048.6	4006.6	3898.1	3740.6	3539.9	3334.6	3149.1	3017.2	2918.1	2881.9
4111.6	10°	4087.1	4037.0	3848.0	3570.3	3223.7	2907.6	2661.4	2526.0	2446.7	2421.0
4172.3	12.5°	4132.6	4059.1	3769.8	3333.4	2870.2	2523.7	2309.0	2229.7	2188.8	2174.8
4247.0	15°	4199.2	4077.8	3651.9	3037.1	2533.0	2243.7	2104.8	2050.0	2029.0	2027.8
4324.0	17.5°	4249.3	4081.3	3468.8	2719.7	2274.0	2074.5	1960.1	1939.1	1953.1	1974.1
4399.8	20°	4305.3	4049.8	3228.4	2430.4	2092.0	1926.3	1878.5	1892.5	1926.3	1956.6
4500.2	22.5°	4345.0	3992.6	2937.9	2205.2	1934.5	1841.1	1838.8	1868.0	1886.6	1901.8
4618.0	25°	4380.0	3895.8	2629.9	2016.2	1805.0	1789.8	1815.5	1806.1	1793.3	1806.1
4735.9	27.5°	4405.7	3742.9	2354.5	1850.5	1714.0	1754.8	1739.6	1718.6	1717.5	1724.5
4874.7	30°	4397.5	3538.8	2128.2	1693.0	1649.8	1689.5	1653.3	1649.8	1646.3	1649.8
5083.6	32.5°	4397.5	3306.6	1954.3	1584.5	1609.0	1593.8	1590.3	1582.1	1568.1	1567.0
5367.1	35°	4422.0	3074.4	1805.0	1526.1	1575.1	1538.9	1541.3	1521.4	1492.3	1478.3
5742.8	37.5°	4472.2	2887.7	1656.8	1498.1	1515.6	1514.4	1505.1	1471.3	1419.9	1375.6
6211.8	40°	4593.5	2832.9	1555.3	1485.3	1487.6	1501.6	1477.1	1411.8	1295.1	1222.8
6687.8	42.5°	4783.7	2925.1	1533.1	1453.8	1468.9	1482.9	1435.1	1283.4	1200.6	1157.4
7187.2	45°	5025.2	3086.1	1581.0	1408.3	1424.6	1449.1	1306.8	1234.4	1197.1	1198.3
7681.9	47.5°	5330.9	3255.2	1669.6	1368.6	1360.4	1374.4	1221.6	1177.3	1125.9	1138.8
8156.8	50°	5684.4	3426.8	1753.6	1314.9	1289.3	1243.8	1166.8	1124.8	1059.4	1029.1
8615.3	52.5°	6067.1	3592.4	1787.5	1249.6	1212.3	1159.8	1129.4	1078.1	998.7	948.6
9048.2	55°	6430.0	3742.9	1750.1	1171.4	1135.3	1094.4	1089.7	1058.2	973.1	903.1
9433.2	57.5°	6773.0	3869.0	1656.8	1092.1	1057.1	1032.6	1064.1	1048.9	941.6	851.7
9797.2	60°	7063.5	3955.3	1521.4	1011.6	987.1	974.2	1022.1	1017.4	897.2	796.9
10123.9	62.5°	7294.6	3989.1	1372.1	934.6	928.7	905.4	963.7	963.7	841.2	743.2
10411.0	65°	7475.4	3956.5	1220.4	858.7	870.4	835.4	892.6	885.6	781.7	695.4
10741.1	67.5°	7635.2	3849.1	1052.4	784.1	810.9	766.6	817.9	801.6	716.4	647.5
11027.0	70°	7706.4	3599.4	861.1	709.4	742.1	698.9	743.2	712.9	642.9	596.2
10713.1	72.5°	7134.7	2991.6	677.9	631.2	659.2	624.2	662.7	627.7	563.5	542.5
9251.2	75°	5902.6	2244.8	521.5	546.0	567.0	540.2	565.9	540.2	481.9	497.0
6833.7	77.5°	4286.7	1515.6	399.0	456.2	465.5	451.5	473.7	444.5	392.0	388.5
3405.8	80°	2131.7	887.9	312.7	360.5	357.0	347.7	373.4	359.4	315.0	333.7
919.4	82.5°	617.2	380.4	227.5	253.2	246.2	248.5	267.2	274.2	410.7	407.2
285.9	85°	193.7	149.3	136.5	141.2	134.2	137.7	157.5	312.7	289.4	169.2
88.7	87.5°	50.2	51.3	33.8	36.2	37.3	44.3	50.2	190.2	91.0	59.5
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>
3981.0
3790.8
3382.4
2818.9
2381.3
2178.3
2032.5
1982.3
1967.1
1910.0
1814.3
1736.1
1662.6
1582.1
1492.3
1390.8
1232.1
1157.4
1204.1
1171.4
1037.2
947.4
903.1
847.1
793.4
739.7
690.7
642.9
586.9
525.0
453.9
371.0
330.2
416.5
183.2
63.0
0.0

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