

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: P950170

Luminaire Tested: **GALN-SB4C-950-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950170
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-SB4C-950-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 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: 20753 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

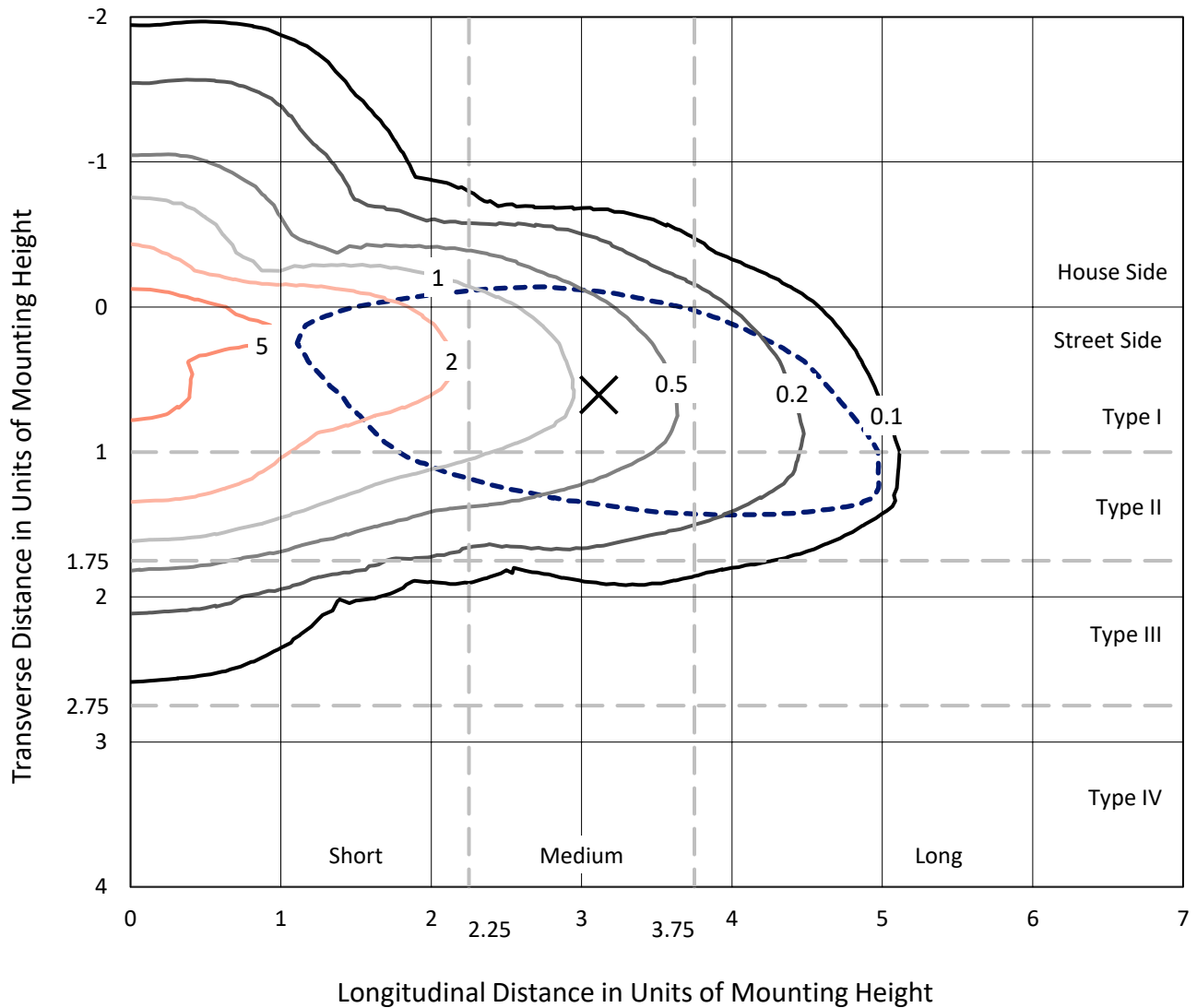
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

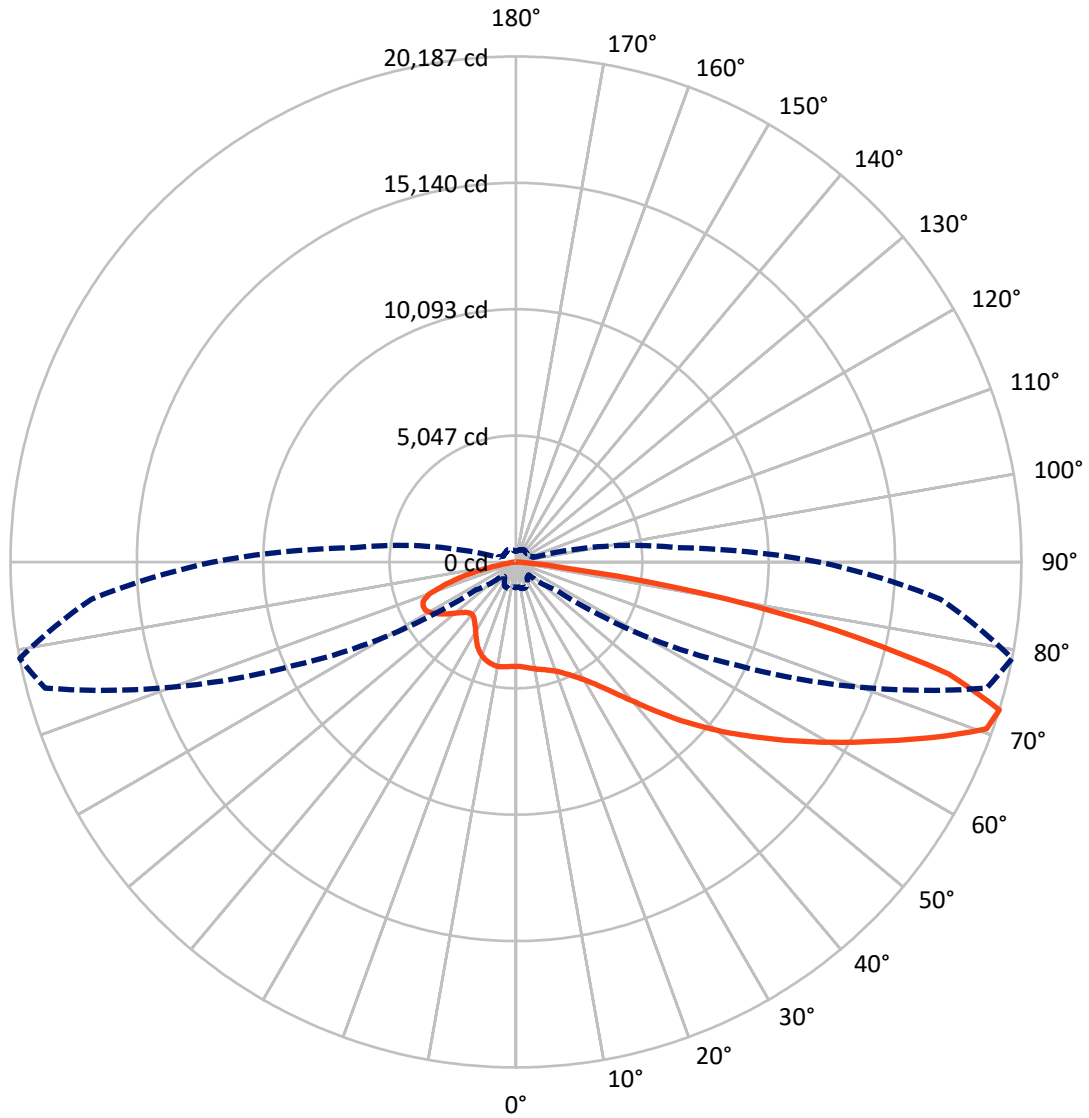
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	4566.8	0.0	4566.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	16186.2	0.0	16186.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	20753.0	0.0	20753.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.2	1.8
10°-20°	988.7	4.8
20°-30°	1595.3	7.7
30°-40°	2394.3	11.5
40°-50°	3396.5	16.4
50°-60°	4289.3	20.7
60°-70°	4356.4	21.0
70°-80°	2969.1	14.3
80°-90°	385.2	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°	20753.0	100.0
0°-180°	20753.0	100.0



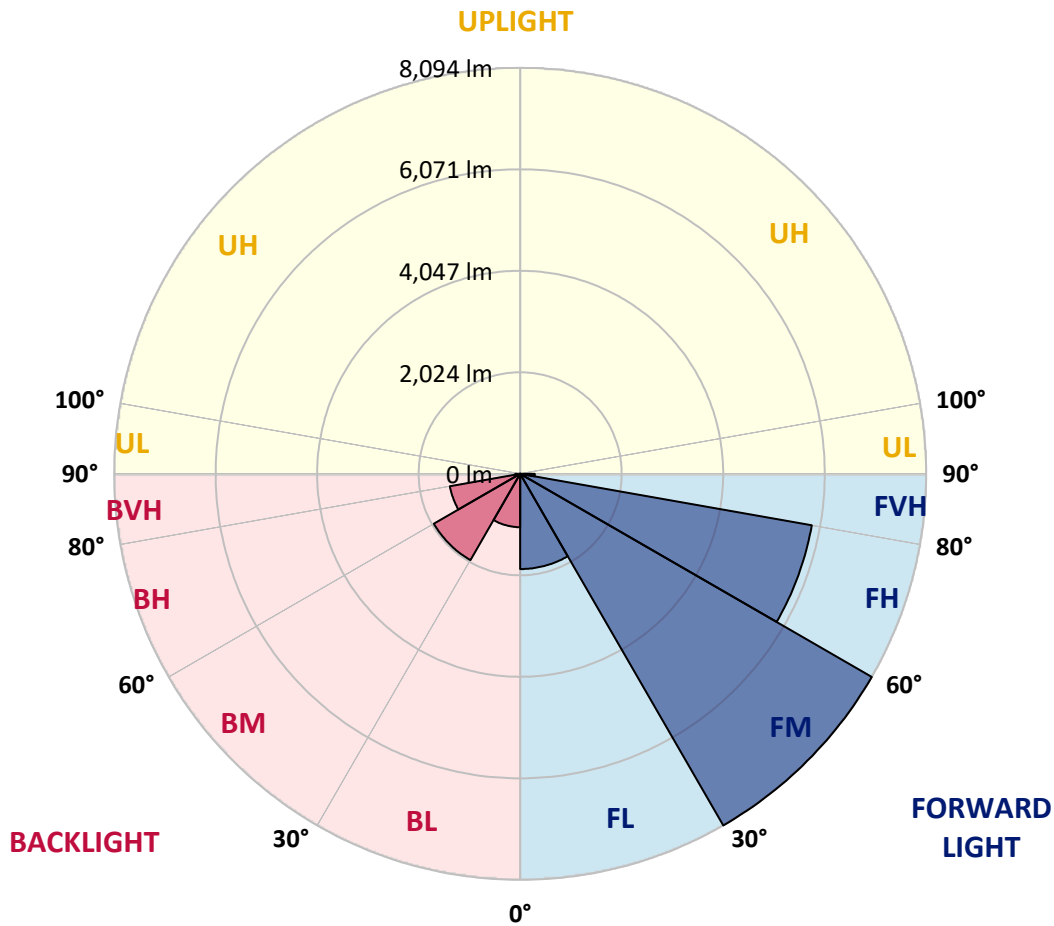
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1898.4	9.1			
FM (30°-60°)	8094.1	39.0			
FH (60°-80°)	5903.5	28.4			G3/7500
FVH (80°-90°)	290.2	1.4			G3/500
BL (0°-30°)	1063.7	5.1	B3/2500		
BM (30°-60°)	1986.1	9.6	B2/2500		
BH (60°-80°)	1422.0	6.9	B3/2500		G3/2500
BVH (80°-90°)	95.0	0.5			G1/100
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°	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0
2.5°	4168.2	4148.4	4160.5	4156.1	4161.6	4168.2	4170.4	4173.7	4184.6	4183.5
5°	4159.4	4139.6	4156.1	4150.6	4164.9	4180.2	4193.4	4205.5	4223.1	4230.7
7.5°	4140.7	4127.5	4144.0	4160.5	4186.8	4209.9	4228.5	4256.0	4281.2	4285.6
10°	4032.0	4022.2	4060.6	4103.4	4175.8	4238.4	4279.0	4310.9	4338.3	4342.7
12.5°	3919.0	3906.9	3949.7	4007.9	4125.4	4238.4	4324.0	4365.8	4389.9	4404.2
15°	3900.3	3890.4	3914.6	3965.1	4062.8	4208.8	4354.8	4431.6	4452.5	4468.9
17.5°	3990.3	3971.7	3981.5	3999.1	4056.2	4181.3	4378.9	4506.3	4538.1	4555.7
20°	4198.9	4172.6	4157.2	4122.1	4112.2	4185.7	4376.7	4596.3	4638.0	4660.0
22.5°	4476.6	4459.1	4426.1	4337.2	4240.6	4239.5	4418.5	4711.5	4789.5	4810.3
25°	4812.5	4786.2	4744.5	4623.7	4438.2	4346.0	4488.7	4858.6	4989.3	4994.8
27.5°	5199.0	5159.4	5102.3	4943.2	4692.9	4512.9	4596.3	5027.7	5218.7	5216.5
30°	5606.2	5566.7	5506.3	5313.1	4998.1	4737.9	4745.6	5209.9	5491.0	5478.9
32.5°	5903.7	5874.1	5862.0	5712.7	5349.3	5003.6	4916.8	5411.9	5826.9	5815.9
35°	6132.0	6093.6	6107.9	6032.1	5732.5	5301.0	5126.5	5652.3	6235.2	6234.1
37.5°	6358.2	6324.1	6336.2	6285.7	6087.0	5678.7	5382.3	5946.5	6741.3	6765.4
40°	6564.6	6528.3	6576.6	6529.4	6362.6	6080.4	5673.2	6279.1	7327.5	7373.6
42.5°	6688.6	6660.1	6740.2	6741.3	6601.9	6419.7	5992.6	6645.8	8005.9	8109.1
45°	6731.4	6721.5	6842.3	6867.5	6813.7	6616.1	6280.2	7045.4	8737.0	8921.4
47.5°	6685.3	6666.6	6833.5	6926.8	6969.6	6708.4	6518.4	7477.9	9483.5	9753.5
50°	6452.6	6416.4	6664.5	6860.9	7013.5	6768.7	6758.9	7977.4	10332.0	10627.3
52.5°	6034.3	6006.9	6289.0	6630.4	6916.9	6798.4	7028.9	8522.9	11137.8	11519.8
55°	5499.7	5463.5	5774.2	6219.9	6676.5	6788.5	7299.0	9133.3	12088.4	12475.9
57.5°	4652.3	4579.8	4972.8	5499.7	6284.6	6776.4	7580.0	9740.4	13054.5	13518.8
60°	3416.2	3308.6	3790.5	4415.2	5518.4	6659.0	7928.0	10421.0	14213.7	14631.9
62.5°	1989.1	1926.6	2241.6	2824.5	4159.4	5967.4	8123.4	11212.4	15353.2	15792.3
65°	1544.5	1527.0	1554.4	1599.4	2315.2	4467.8	7520.7	11984.2	16802.2	17109.6
67.5°	1412.8	1399.6	1411.7	1327.2	1174.6	2488.6	5949.8	12179.6	18354.4	18541.0
70°	1255.8	1240.5	1280.0	1207.5	924.3	1131.8	3844.3	11470.4	19589.4	19939.6
72.5°	1023.1	1005.5	1097.8	1064.8	778.3	726.7	1930.9	9785.4	19459.8	20186.6
75°	786.0	776.1	885.9	913.3	634.5	571.9	926.5	7273.7	17124.9	17857.1
77.5°	610.3	602.7	658.7	758.5	511.6	443.5	569.7	4613.9	12905.2	13033.6
80°	457.8	435.8	487.4	587.3	398.5	323.8	386.4	2690.6	8157.4	7394.5
82.5°	286.5	275.5	318.3	391.9	281.0	222.8	251.4	1486.4	3269.1	1925.5
85°	163.6	159.2	173.4	223.9	152.6	128.4	143.8	656.5	597.2	410.6
87.5°	65.9	63.7	79.0	99.9	56.0	47.2	50.5	158.1	131.7	121.9
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°
4166.0	0°	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0	4166.0
4182.4	2.5°	4178.0	4178.0	4162.7	4138.5	4111.1	4093.5	4065.0	4057.3	4027.7	4018.9
4219.8	5°	4228.5	4219.8	4172.6	4104.5	4011.2	3925.6	3831.2	3771.9	3688.4	3658.8
4293.3	7.5°	4292.2	4268.1	4186.8	4037.5	3842.1	3650.0	3450.2	3298.7	3153.8	3102.2
4353.7	10°	4350.4	4316.4	4178.0	3916.8	3578.7	3246.1	2927.7	2704.9	2535.8	2466.6
4420.6	12.5°	4408.6	4346.0	4119.9	3715.9	3204.3	2753.2	2414.0	2240.5	2136.2	2052.8
4475.5	15°	4463.5	4375.6	4029.8	3446.9	2793.8	2336.0	2085.7	1947.4	1864.0	1809.1
4555.7	17.5°	4527.1	4400.9	3894.8	3105.5	2403.0	2047.3	1843.1	1759.7	1743.2	1736.6
4665.4	20°	4616.0	4423.9	3717.0	2723.5	2115.4	1816.8	1711.4	1703.7	1702.6	1699.3
4797.2	22.5°	4711.5	4451.4	3482.1	2376.6	1870.6	1673.0	1654.3	1638.9	1629.1	1628.0
4956.3	25°	4824.6	4460.2	3187.9	2092.3	1662.0	1604.9	1583.0	1559.9	1553.3	1553.3
5137.5	27.5°	4934.4	4430.5	2845.4	1845.3	1544.5	1542.3	1513.8	1506.1	1505.0	1508.3
5343.9	30°	5044.2	4374.5	2505.1	1617.0	1476.5	1476.5	1466.6	1472.1	1476.5	1487.5
5627.1	32.5°	5192.4	4315.3	2220.8	1447.9	1417.2	1406.2	1416.1	1427.1	1431.5	1445.7
5999.2	35°	5409.7	4273.5	1994.6	1355.7	1355.7	1341.5	1346.9	1344.7	1334.9	1328.3
6449.3	37.5°	5697.3	4271.4	1808.0	1312.9	1304.1	1301.9	1303.0	1288.8	1250.3	1204.2
6993.8	40°	6043.1	4330.6	1664.2	1283.3	1276.7	1289.9	1283.3	1244.9	1139.5	1059.3
7663.4	42.5°	6507.5	4499.7	1572.0	1247.0	1266.8	1283.3	1256.9	1124.1	1052.7	999.0
8426.3	45°	7054.2	4774.1	1524.8	1208.6	1248.1	1267.9	1140.6	1082.4	1025.3	960.5
9258.4	47.5°	7673.3	5119.9	1513.8	1172.4	1206.4	1218.5	1091.2	1064.8	1000.1	929.8
10094.9	50°	8347.3	5529.4	1543.4	1129.6	1146.1	1104.3	1074.7	1050.5	983.6	914.4
10952.3	52.5°	9044.4	5980.6	1602.7	1071.4	1085.7	1039.6	1068.1	1047.3	973.7	880.4
11838.2	55°	9729.4	6435.0	1659.8	1003.3	1024.2	981.4	1049.5	1034.1	928.7	823.3
12783.3	57.5°	10425.3	6887.3	1715.8	943.0	964.9	925.4	1019.8	999.0	878.2	770.6
13815.2	60°	11148.8	7326.4	1742.1	884.8	900.2	873.8	974.8	938.6	821.1	716.8
14829.5	62.5°	11826.1	7691.9	1699.3	826.6	836.5	825.5	915.5	867.2	764.0	656.5
15886.7	65°	12505.6	7909.3	1567.6	769.5	771.7	766.2	832.1	790.4	697.1	603.8
16812.1	67.5°	13121.4	8031.2	1357.9	708.0	702.6	700.4	754.2	707.0	632.3	551.1
17515.7	70°	13252.1	7721.6	1037.4	635.6	635.6	630.1	668.5	620.2	561.0	495.1
17011.9	72.5°	12103.8	6495.4	736.6	553.3	562.0	551.1	582.9	542.3	488.5	444.6
14661.6	75°	9760.1	4763.1	535.7	468.7	484.1	465.4	495.1	466.5	420.4	419.3
10103.7	77.5°	6706.2	2945.3	388.6	386.4	397.4	373.2	407.3	391.9	350.2	331.5
4397.6	80°	2861.8	1174.6	283.2	298.6	298.6	276.6	316.2	320.5	284.3	275.5
848.6	82.5°	569.7	333.7	198.7	205.3	193.2	186.6	223.9	248.1	342.5	380.9
255.8	85°	171.2	122.9	119.7	112.0	98.8	99.9	131.7	249.2	307.4	175.6
84.5	87.5°	47.2	30.7	31.8	25.2	20.9	27.4	45.0	188.8	103.2	43.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
4166.0
4033.1
3680.8
3108.8
2482.0
2080.2
1819.0
1741.0
1710.3
1640.0
1559.9
1517.1
1495.1
1457.8
1343.6
1205.3
1057.1
996.8
956.1
924.3
906.7
873.8
817.8
768.4
713.5
655.4
597.2
544.5
492.9
431.4
377.6
310.7
275.5
382.0
151.5
37.3
0.0

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