

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: P949561

Luminaire Tested: **GALN-SB4B-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949561
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-SB4B-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23732 lumens
Efficiency: N/A
Efficacy: 161.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

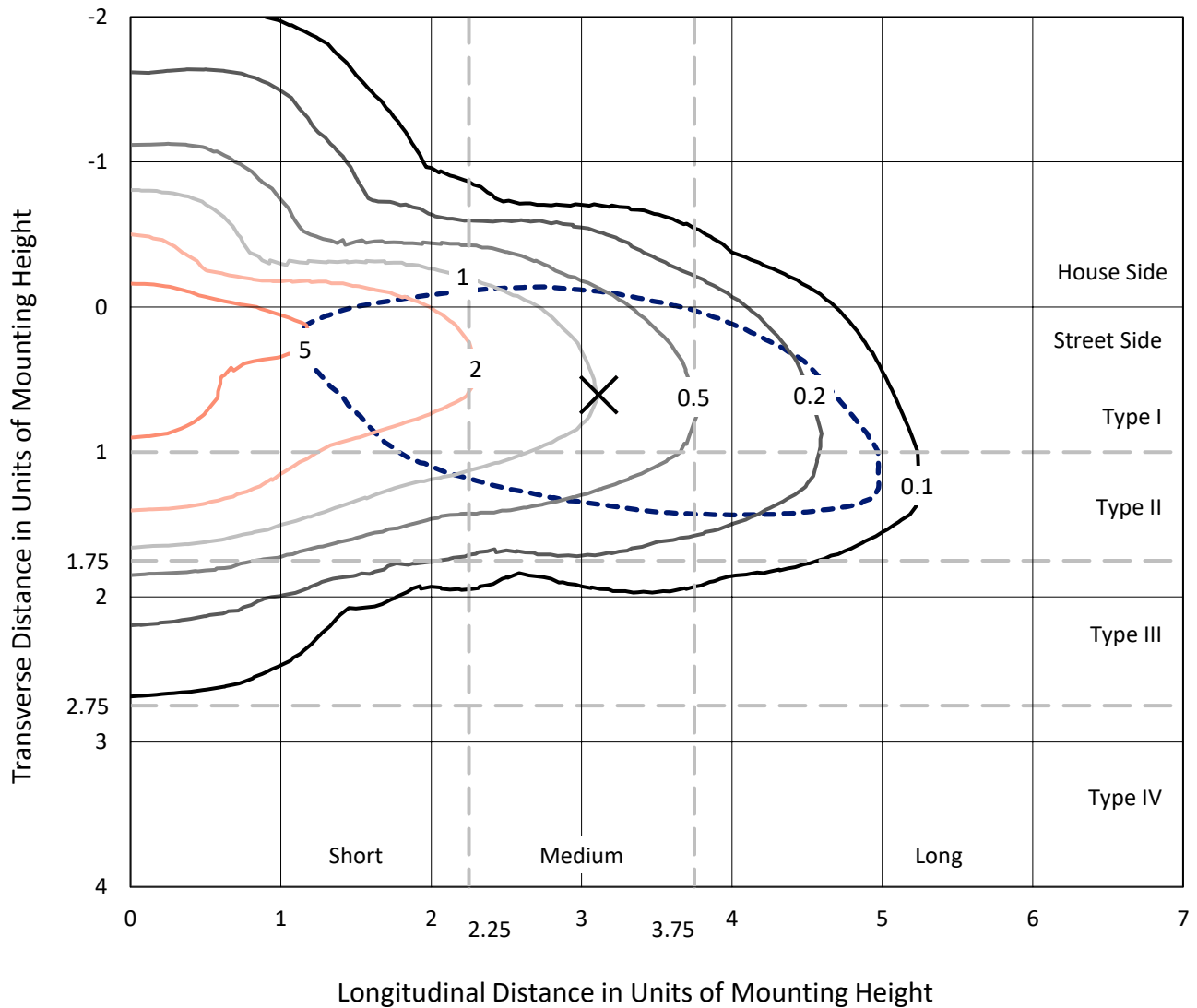
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

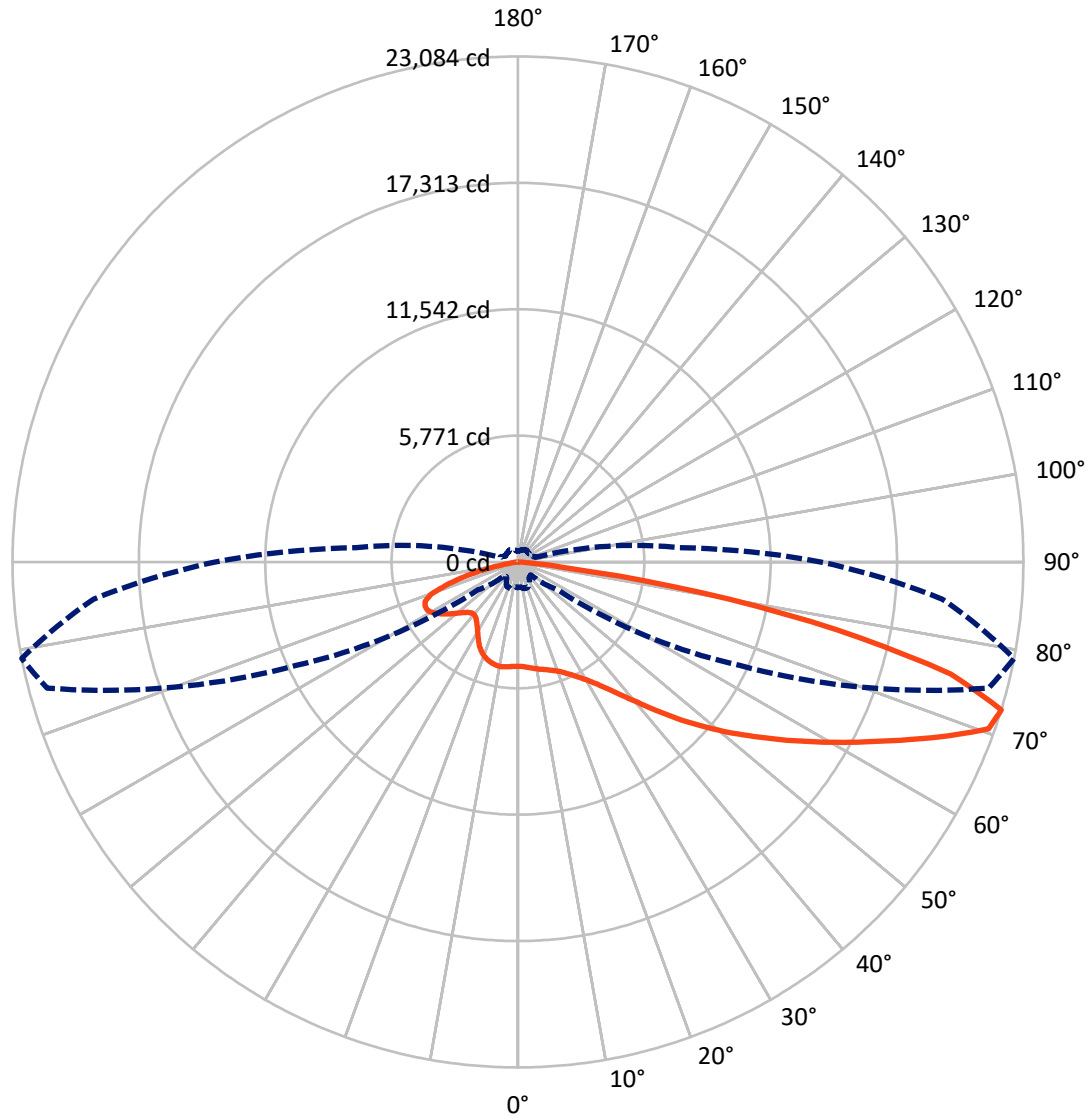
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	5222.3	0.0	5222.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	18509.7	0.0	18509.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	23732.0	0.0	23732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.4	1.8
10°-20°	1130.6	4.8
20°-30°	1824.3	7.7
30°-40°	2738.0	11.5
40°-50°	3884.1	16.4
50°-60°	4905.0	20.7
60°-70°	4981.7	21.0
70°-80°	3395.3	14.3
80°-90°	440.5	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°	23732.0	100.0
0°-180°	23732.0	100.0

Coefficient of Utilization



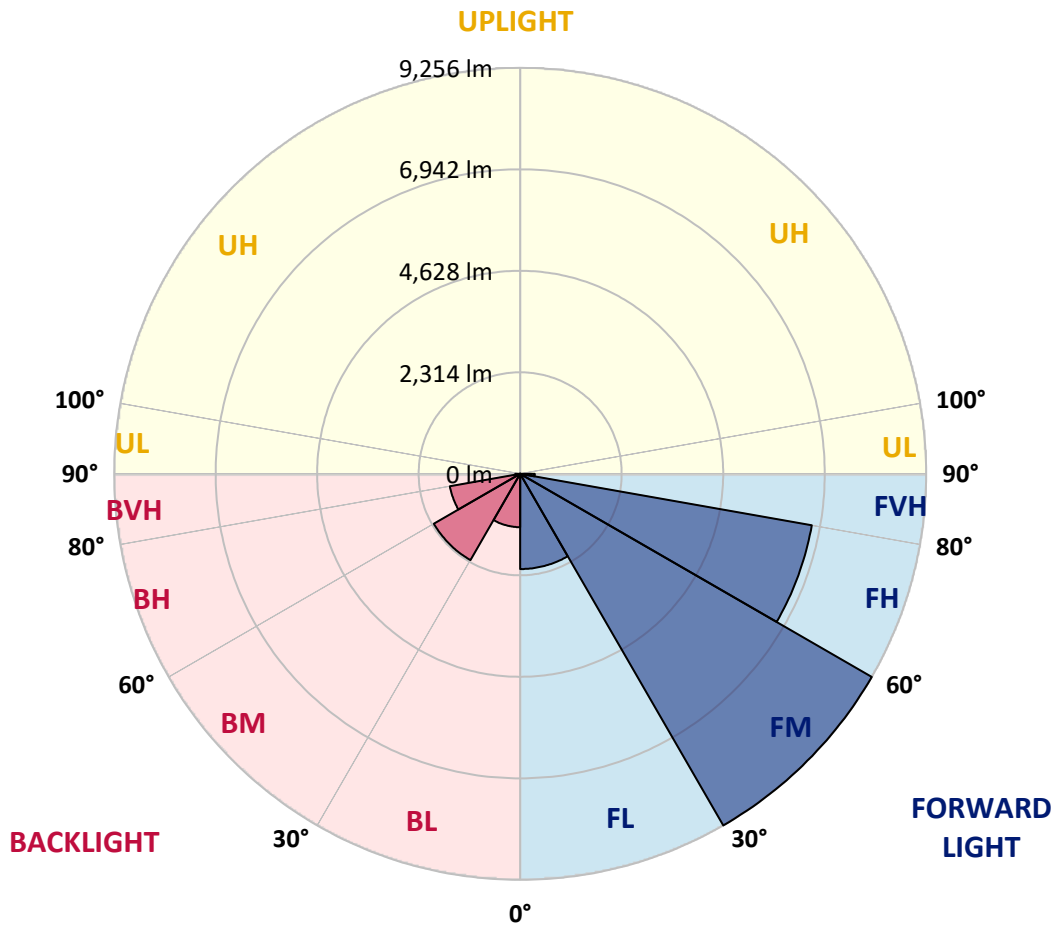
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2170.9	9.1			
FM (30°-60°)	9256.0	39.0			
FH (60°-80°)	6750.9	28.4			G3/7500
FVH (80°-90°)	331.8	1.4			G3/500
BL (0°-30°)	1216.4	5.1	B3/2500		
BM (30°-60°)	2271.2	9.6	B2/2500		
BH (60°-80°)	1626.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	108.7	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4764.0	4764.0	4764.0	4764.0	4764.0	4764.0	4764.0	4764.0	4764.0	4764.0
2.5°	4766.5	4743.9	4757.7	4752.7	4759.0	4766.5	4769.0	4772.8	4785.3	4784.1
5°	4756.4	4733.8	4752.7	4746.4	4762.7	4780.3	4795.4	4809.2	4829.3	4838.0
7.5°	4735.1	4720.0	4738.9	4757.7	4787.8	4814.2	4835.5	4866.9	4895.8	4900.8
10°	4610.8	4599.5	4643.5	4692.4	4775.3	4846.8	4893.3	4929.7	4961.1	4966.1
12.5°	4481.5	4467.7	4516.7	4583.2	4717.5	4846.8	4944.7	4992.4	5020.1	5036.4
15°	4460.2	4448.9	4476.5	4534.2	4646.0	4812.9	4979.9	5067.8	5091.6	5110.4
17.5°	4563.1	4541.8	4553.1	4573.2	4638.4	4781.5	5007.5	5153.1	5189.5	5209.6
20°	4801.6	4771.5	4753.9	4713.8	4702.5	4786.6	5005.0	5256.1	5303.8	5328.9
22.5°	5119.2	5099.1	5061.5	4959.8	4849.3	4848.1	5052.7	5387.9	5477.0	5500.9
25°	5503.4	5473.2	5425.5	5287.4	5075.3	4969.8	5133.0	5556.1	5705.5	5711.7
27.5°	5945.2	5900.0	5834.8	5652.7	5366.5	5160.7	5256.1	5749.4	5967.8	5965.3
30°	6411.0	6365.8	6296.7	6075.8	5715.5	5418.0	5426.8	5957.8	6279.2	6265.3
32.5°	6751.2	6717.3	6703.5	6532.7	6117.2	5721.8	5622.6	6188.8	6663.3	6650.7
35°	7012.3	6968.3	6984.7	6898.0	6555.3	6062.0	5862.4	6463.7	7130.3	7129.0
37.5°	7270.9	7232.0	7245.8	7188.0	6960.8	6493.8	6154.9	6800.1	7709.0	7736.6
40°	7506.9	7465.4	7520.7	7466.7	7275.9	6953.3	6487.5	7180.5	8379.3	8432.0
42.5°	7648.7	7616.1	7707.7	7709.0	7549.5	7341.2	6852.8	7599.8	9155.1	9273.1
45°	7697.7	7686.4	7824.5	7853.3	7791.8	7565.9	7181.7	8056.7	9991.2	10202.1
47.5°	7645.0	7623.6	7814.4	7921.1	7970.1	7671.3	7454.1	8551.3	10844.8	11153.6
50°	7378.8	7337.4	7621.1	7845.8	8020.3	7740.4	7729.1	9122.5	11815.2	12152.8
52.5°	6900.5	6869.2	7191.8	7582.2	7909.8	7774.3	8037.9	9746.4	12736.6	13173.4
55°	6289.2	6247.8	6603.0	7112.7	7634.9	7763.0	8346.7	10444.3	13823.7	14266.8
57.5°	5320.1	5237.2	5686.6	6289.2	7186.8	7749.1	8668.0	11138.5	14928.4	15459.4
60°	3906.6	3783.6	4334.7	5048.9	6310.5	7614.8	9066.0	11916.8	16254.0	16732.3
62.5°	2274.7	2203.1	2563.4	3230.0	4756.4	6824.0	9289.4	12821.9	17557.0	18059.2
65°	1766.2	1746.2	1777.5	1829.0	2647.5	5109.2	8600.3	13704.4	19214.1	19565.6
67.5°	1615.6	1600.5	1614.4	1517.7	1343.2	2845.8	6803.9	13927.9	20989.1	21202.5
70°	1436.1	1418.5	1463.7	1380.9	1057.0	1294.2	4396.2	13116.9	22401.3	22801.8
72.5°	1170.0	1149.9	1255.3	1217.7	890.0	831.0	2208.1	11190.0	22253.2	23084.2
75°	898.8	887.5	1013.1	1044.4	725.6	654.0	1059.5	8317.8	19583.1	20420.4
77.5°	698.0	689.2	753.2	867.4	585.0	507.2	651.5	5276.1	14757.6	14904.5
80°	523.5	498.4	557.4	671.6	455.7	370.3	441.9	3076.8	9328.3	8455.9
82.5°	327.6	315.1	364.0	448.2	321.4	254.8	287.5	1699.7	3738.4	2201.8
85°	187.0	182.0	198.3	256.1	174.5	146.9	164.4	750.7	682.9	469.5
87.5°	75.3	72.8	90.4	114.2	64.0	54.0	57.7	180.8	150.6	139.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949561
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4764.0	0°	4764.0	4764.0	4764.0	4764.0	4764.0	4764.0	4764.0	4764.0	4764.0	4764.0
4782.8	2.5°	4777.8	4777.8	4760.2	4732.6	4701.2	4681.1	4648.5	4639.7	4605.8	4595.8
4825.5	5°	4835.5	4825.5	4771.5	4693.7	4587.0	4489.1	4381.1	4313.3	4217.9	4184.0
4909.6	7.5°	4908.3	4880.7	4787.8	4617.1	4393.7	4174.0	3945.5	3772.3	3606.6	3547.6
4978.6	10°	4974.9	4936.0	4777.8	4479.0	4092.4	3712.0	3348.0	3093.1	2899.8	2820.7
5055.2	12.5°	5041.4	4969.8	4711.2	4249.3	3664.3	3148.4	2760.5	2562.1	2442.9	2347.5
5118.0	15°	5104.2	5003.7	4608.3	3941.7	3194.8	2671.3	2385.1	2227.0	2131.5	2068.8
5209.6	17.5°	5177.0	5032.6	4453.9	3551.3	2747.9	2341.2	2107.7	2012.3	1993.5	1985.9
5335.1	20°	5278.7	5059.0	4250.5	3114.5	2419.0	2077.6	1957.1	1948.3	1947.0	1943.2
5485.8	22.5°	5387.9	5090.4	3981.9	2717.8	2139.1	1913.1	1891.8	1874.2	1862.9	1861.7
5667.8	25°	5517.2	5100.4	3645.5	2392.7	1900.6	1835.3	1810.2	1783.8	1776.3	1776.3
5874.9	27.5°	5642.7	5066.5	3253.8	2110.2	1766.2	1763.7	1731.1	1722.3	1721.1	1724.8
6110.9	30°	5768.2	5002.5	2864.7	1849.1	1688.4	1688.4	1677.1	1683.4	1688.4	1701.0
6434.8	32.5°	5937.7	4934.7	2539.5	1655.8	1620.6	1608.1	1619.4	1631.9	1636.9	1653.3
6860.4	35°	6186.3	4887.0	2280.9	1550.3	1550.3	1534.0	1540.3	1537.8	1526.5	1518.9
7375.1	37.5°	6515.2	4884.5	2067.5	1501.4	1491.3	1488.8	1490.1	1473.8	1429.8	1377.1
7997.7	40°	6910.6	4952.3	1903.1	1467.5	1459.9	1475.0	1467.5	1423.5	1303.0	1211.4
8763.5	42.5°	7441.6	5145.6	1797.6	1426.1	1448.6	1467.5	1437.4	1285.5	1203.9	1142.3
9635.9	45°	8066.7	5459.4	1743.7	1382.1	1427.3	1449.9	1304.3	1237.8	1172.5	1098.4
10587.4	47.5°	8774.7	5854.9	1731.1	1340.7	1379.6	1393.4	1247.8	1217.7	1143.6	1063.3
11544.0	50°	9545.5	6323.1	1765.0	1291.7	1310.6	1262.9	1229.0	1201.3	1124.8	1045.7
12524.4	52.5°	10342.7	6839.0	1832.8	1225.2	1241.5	1188.8	1221.4	1197.6	1113.5	1006.8
13537.5	55°	11126.0	7358.7	1898.1	1147.4	1171.2	1122.3	1200.1	1182.5	1062.0	941.5
14618.3	57.5°	11921.9	7875.9	1962.1	1078.3	1103.4	1058.2	1166.2	1142.3	1004.3	881.2
15798.3	60°	12749.1	8378.1	1992.2	1011.8	1029.4	999.2	1114.7	1073.3	939.0	819.7
16958.2	62.5°	13523.7	8796.1	1943.2	945.3	956.6	944.0	1046.9	991.7	873.7	750.7
18167.1	65°	14300.7	9044.6	1792.6	880.0	882.5	876.2	951.5	903.8	797.1	690.4
19225.4	67.5°	15004.9	9184.0	1552.8	809.7	803.4	800.9	862.4	808.4	723.1	630.2
20030.0	70°	15154.3	8830.0	1186.3	726.8	726.8	720.6	764.5	709.3	641.5	566.2
19453.8	72.5°	13841.3	7427.8	842.3	632.7	642.7	630.2	666.6	620.1	558.6	508.4
16766.2	75°	11161.1	5446.9	612.6	536.0	553.6	532.3	566.2	533.5	480.8	479.5
11554.0	77.5°	7668.8	3368.0	444.4	441.9	454.4	426.8	465.7	448.2	400.4	379.1
5028.8	80°	3272.6	1343.2	323.9	341.4	341.4	316.3	361.5	366.6	325.1	315.1
970.4	82.5°	651.5	381.6	227.2	234.7	220.9	213.4	256.1	283.7	391.7	435.6
292.5	85°	195.8	140.6	136.8	128.0	113.0	114.2	150.6	285.0	351.5	200.9
96.7	87.5°	54.0	35.1	36.4	28.9	23.9	31.4	51.5	215.9	118.0	50.2
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>
4764.0
4612.1
4209.1
3555.1
2838.3
2378.8
2080.1
1991.0
1955.8
1875.5
1783.8
1734.9
1709.8
1667.1
1536.5
1378.4
1208.9
1139.8
1093.4
1057.0
1036.9
999.2
935.2
878.7
816.0
749.4
682.9
622.6
563.6
493.3
431.8
355.3
315.1
436.9
173.2
42.7
0.0

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