

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: P939897

Luminaire Tested: **GALN-SB2C-950-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-950-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10426 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

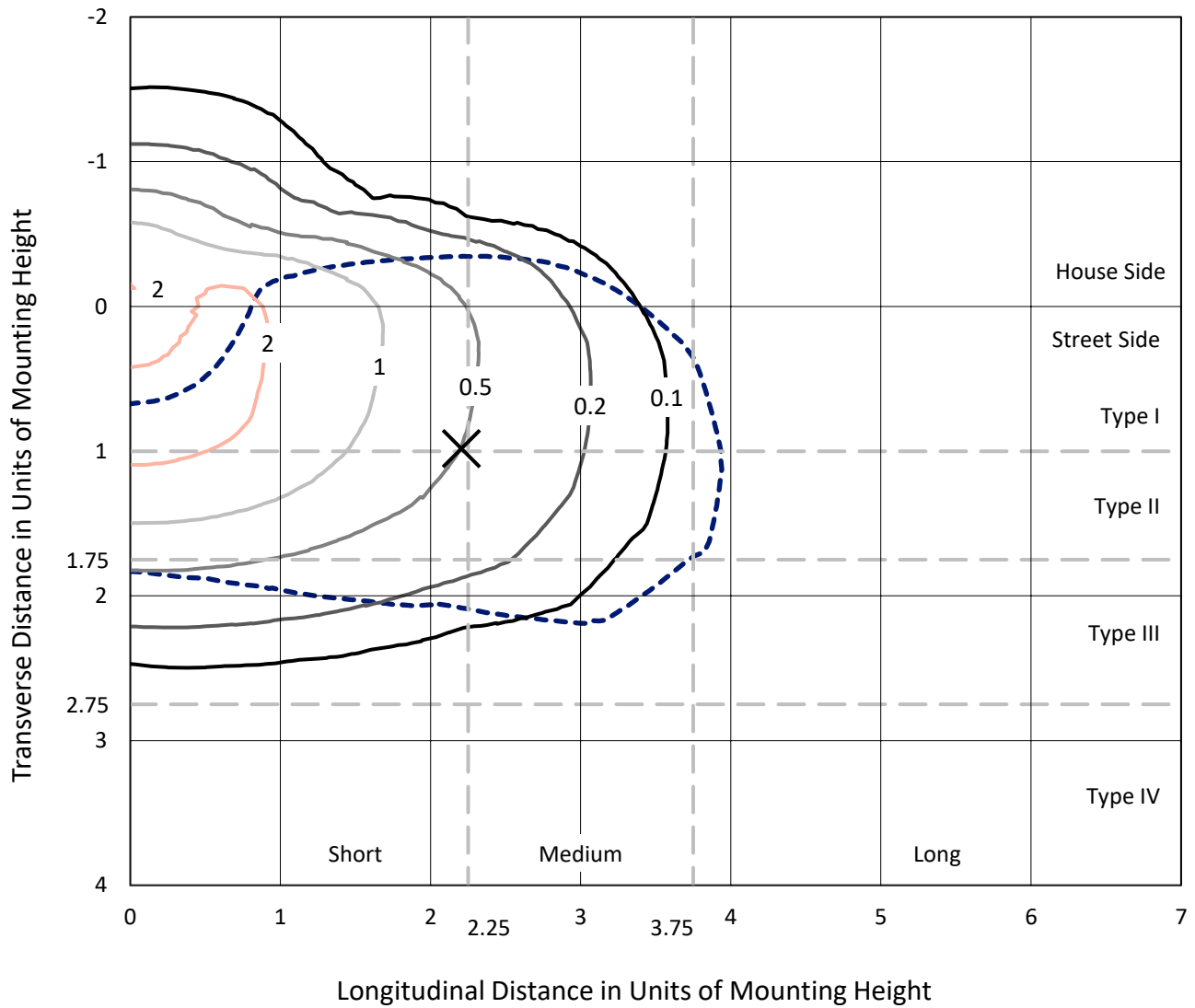
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

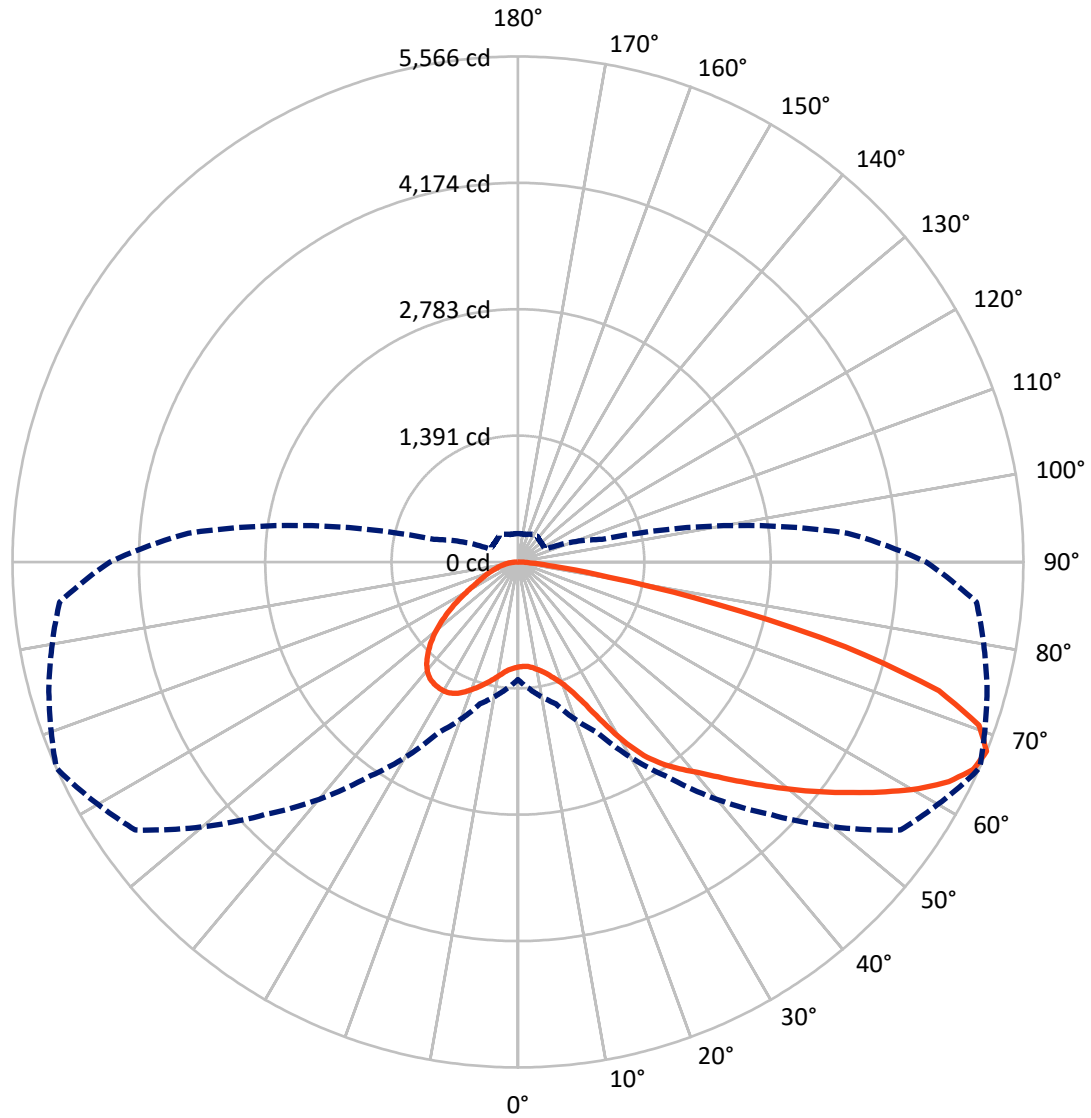
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2592.4	0.0	2592.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	7833.6	0.0	7833.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	10426.0	0.0	10426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	1.1
10°-20°	378.8	3.6
20°-30°	730.1	7.0
30°-40°	1280.1	12.3
40°-50°	1903.1	18.3
50°-60°	2412.4	23.1
60°-70°	2360.5	22.6
70°-80°	1126.0	10.8
80°-90°	120.3	1.2
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°	10426.0	100.0
0°-180°	10426.0	100.0

Coefficient of Utilization



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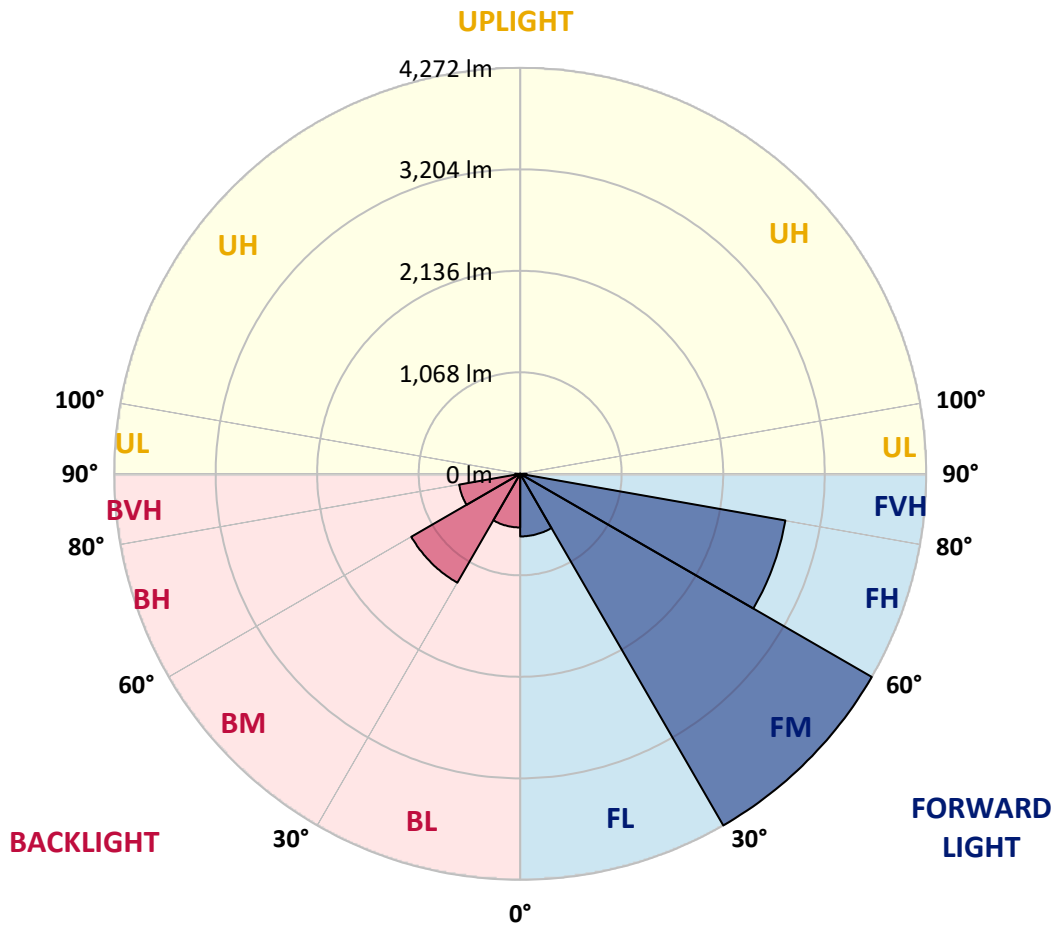
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	658.8	6.3			
FM (30°-60°)	4272.5	41.0			
FH (60°-80°)	2834.1	27.2			G2/5000
FVH (80°-90°)	68.2	0.7			G1/100
BL (0°-30°)	564.7	5.4	B2/1000		
BM (30°-60°)	1323.2	12.7	B2/2500		
BH (60°-80°)	652.4	6.3	B2/1000		G2/1000
BVH (80°-90°)	52.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4
2.5°	1144.3	1150.9	1149.3	1146.5	1146.0	1147.1	1148.7	1150.4	1149.8	1152.5
5°	1141.0	1147.6	1147.1	1147.1	1149.3	1153.6	1156.4	1159.1	1156.4	1159.7
7.5°	1143.2	1148.2	1150.4	1152.5	1158.0	1166.2	1172.8	1178.8	1175.6	1179.4
10°	1171.2	1175.0	1177.2	1177.2	1181.0	1190.3	1196.9	1207.9	1205.1	1211.2
12.5°	1222.1	1226.0	1226.0	1223.8	1226.5	1232.5	1234.7	1246.8	1241.8	1251.7
15°	1284.6	1292.2	1286.2	1282.4	1283.5	1289.5	1288.9	1298.3	1293.3	1301.5
17.5°	1353.6	1363.4	1353.6	1353.0	1350.8	1357.4	1358.0	1366.2	1357.4	1363.4
20°	1435.2	1448.9	1440.7	1443.4	1438.5	1441.2	1444.0	1456.0	1442.3	1446.7
22.5°	1550.2	1566.7	1557.9	1568.3	1565.0	1562.8	1562.3	1583.7	1562.3	1563.9
25°	1717.9	1737.6	1722.2	1736.5	1736.5	1743.6	1751.8	1779.2	1743.6	1733.2
27.5°	1965.5	1985.2	1955.1	1963.8	1961.1	1978.6	1969.8	2037.8	1999.4	1982.4
30°	2263.5	2298.5	2241.5	2239.4	2236.6	2264.6	2277.2	2322.1	2283.2	2266.2
32.5°	2585.6	2622.3	2554.3	2534.6	2524.2	2541.2	2530.8	2566.9	2540.1	2513.8
35°	2926.3	2962.4	2897.8	2859.5	2817.8	2782.2	2745.0	2754.3	2729.1	2689.1
37.5°	3248.4	3314.7	3246.2	3205.1	3128.4	3058.9	2954.8	2911.5	2887.9	2851.2
40°	3576.5	3614.3	3562.3	3527.2	3443.9	3334.9	3168.4	3076.9	3045.2	3009.5
42.5°	3818.1	3854.2	3826.3	3802.2	3737.0	3610.5	3395.2	3280.7	3234.7	3194.7
45°	4009.8	4036.7	4019.1	4027.9	4000.0	3877.2	3630.2	3499.3	3451.6	3402.9
47.5°	4087.0	4115.5	4143.5	4195.5	4243.2	4152.8	3882.7	3735.9	3685.5	3635.7
50°	4078.3	4107.3	4188.4	4299.0	4446.9	4416.8	4148.9	3987.9	3941.3	3884.4
52.5°	4008.2	4041.0	4145.1	4329.2	4564.7	4614.6	4420.1	4248.1	4204.3	4136.3
55°	3824.1	3843.8	4000.0	4260.7	4592.7	4752.6	4685.8	4525.3	4481.5	4386.7
57.5°	3482.8	3511.3	3738.7	4076.1	4522.5	4846.3	4919.1	4816.7	4774.5	4638.1
60°	3037.5	3083.0	3343.2	3766.0	4344.0	4845.7	5131.1	5103.2	5068.1	4885.7
62.5°	2533.5	2586.1	2836.4	3327.8	4031.7	4708.2	5263.7	5343.1	5325.1	5114.2
65°	1945.7	1981.9	2231.1	2760.9	3545.8	4413.0	5279.0	5506.9	5510.2	5287.8
67.5°	1295.5	1399.6	1616.0	2071.7	2895.1	3930.4	5144.3	5533.8	5565.5	5347.5
70°	632.1	769.1	981.1	1346.5	2071.7	3190.3	4792.1	5313.5	5384.2	5173.3
72.5°	262.4	306.8	422.3	664.5	1189.2	2152.8	4084.3	4716.5	4847.4	4583.9
75°	176.9	191.7	241.6	340.7	541.8	1061.6	2945.5	3516.8	3727.7	3462.0
77.5°	136.4	145.7	175.8	238.3	322.1	401.5	1576.5	2119.4	2228.4	2063.0
80°	107.4	114.5	131.5	173.6	228.4	214.7	537.4	960.3	1023.3	858.4
82.5°	93.1	95.9	94.2	117.8	151.7	125.4	176.4	354.4	391.1	283.8
85°	67.4	75.0	78.3	72.9	80.5	63.5	72.3	125.4	138.0	123.3
87.5°	27.4	40.5	49.8	47.1	29.6	18.1	22.5	36.7	42.2	46.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1156.4	0°	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4
1156.9	2.5°	1157.5	1161.3	1164.1	1167.3	1169.5	1172.8	1179.4	1183.2	1183.8	1186.5
1165.7	5°	1167.9	1173.4	1179.4	1188.2	1198.0	1206.2	1218.8	1227.6	1230.9	1233.6
1187.1	7.5°	1190.3	1198.0	1209.0	1224.3	1238.5	1249.5	1264.8	1275.3	1285.7	1289.5
1221.0	10°	1223.8	1234.7	1250.6	1271.4	1286.8	1301.0	1316.9	1325.6	1336.1	1340.4
1261.6	12.5°	1265.4	1276.9	1297.7	1326.7	1341.0	1350.8	1356.3	1354.1	1356.3	1360.2
1310.3	15°	1313.0	1325.6	1349.2	1380.4	1390.3	1381.5	1369.5	1358.5	1356.9	1358.0
1369.5	17.5°	1369.5	1378.8	1406.2	1432.5	1425.3	1389.2	1362.9	1345.4	1336.6	1333.9
1445.1	20°	1448.4	1448.4	1470.8	1487.2	1439.6	1378.2	1337.2	1308.7	1290.6	1282.9
1548.0	22.5°	1544.2	1535.5	1549.7	1538.2	1436.8	1347.6	1290.6	1241.3	1213.9	1202.9
1692.1	25°	1665.8	1655.4	1651.6	1580.4	1417.1	1298.8	1206.2	1146.5	1122.4	1116.4
1899.7	27.5°	1849.3	1823.0	1773.2	1603.4	1381.0	1222.1	1107.6	1052.3	1038.6	1039.2
2166.5	30°	2093.6	2041.1	1918.9	1607.2	1321.8	1113.7	1006.8	967.4	960.8	963.6
2390.5	32.5°	2319.9	2270.0	2067.9	1589.7	1230.9	1007.4	916.4	890.2	880.3	883.6
2561.5	35°	2497.4	2483.7	2205.9	1565.0	1119.1	907.7	835.4	812.9	793.7	789.4
2722.5	37.5°	2665.0	2659.5	2309.5	1530.5	1008.5	837.0	770.2	740.6	712.7	697.3
2900.5	40°	2849.0	2843.6	2377.4	1477.4	910.4	775.7	711.6	672.7	638.2	610.2
3102.1	42.5°	3056.1	3023.8	2409.7	1401.2	827.2	723.6	663.9	611.3	565.9	540.1
3330.0	45°	3282.3	3209.5	2409.2	1304.3	757.0	676.0	613.0	538.5	496.3	472.2
3563.9	47.5°	3522.3	3387.0	2379.6	1196.9	689.1	623.4	534.1	477.1	449.2	434.4
3818.1	50°	3769.9	3553.0	2329.2	1073.7	619.5	563.7	484.8	445.9	424.5	410.8
4070.1	52.5°	4002.7	3703.6	2268.4	934.0	548.9	505.6	462.9	432.8	410.3	395.0
4314.4	55°	4219.1	3833.4	2182.4	791.0	491.4	466.7	452.5	427.3	401.5	383.5
4562.5	57.5°	4411.3	3917.8	2033.9	656.8	450.3	439.9	441.5	418.0	388.4	373.0
4806.8	60°	4571.3	3979.7	1814.3	532.5	416.9	413.6	424.5	400.4	365.9	348.4
5013.4	62.5°	4667.2	3978.6	1544.8	436.0	388.4	389.5	402.1	378.5	343.5	327.0
5121.3	65°	4658.9	3881.1	1249.0	373.0	361.0	362.1	378.5	354.4	324.8	315.0
5067.0	67.5°	4494.1	3643.3	958.1	332.0	330.9	335.8	355.0	338.0	313.3	312.2
4743.8	70°	4047.6	3149.8	690.2	299.1	299.6	306.8	332.0	327.6	307.3	309.5
3988.4	72.5°	3245.6	2401.5	463.4	264.6	265.1	276.6	310.0	319.4	301.3	330.3
2829.9	75°	2161.6	1497.7	298.0	227.9	228.4	243.2	290.9	303.5	284.8	329.2
1472.5	77.5°	1038.6	673.2	215.8	191.7	191.7	205.4	251.4	271.7	242.7	255.8
473.3	80°	358.8	253.1	169.8	154.5	151.2	160.5	212.0	235.5	209.3	192.8
154.5	82.5°	141.3	131.5	136.4	120.0	109.0	115.0	164.9	194.5	153.9	139.1
87.1	85°	81.1	85.5	96.4	79.4	63.0	70.7	121.1	139.7	116.1	102.4
28.5	87.5°	21.9	30.1	44.4	41.1	28.5	30.1	57.5	77.2	66.8	51.5
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>
1156.4
1186.0
1233.1
1290.0
1342.6
1361.3
1361.8
1337.7
1281.3
1201.3
1117.5
1040.8
972.9
888.0
792.6
697.9
613.0
541.8
471.1
431.1
405.9
388.4
376.3
363.2
340.7
322.1
314.4
313.9
309.0
334.7
332.0
234.5
180.8
138.6
104.6
53.1
0.0

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