

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: P939277

Luminaire Tested: **GALN-SB1D-750-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939277
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-SB1D-750-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10777 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

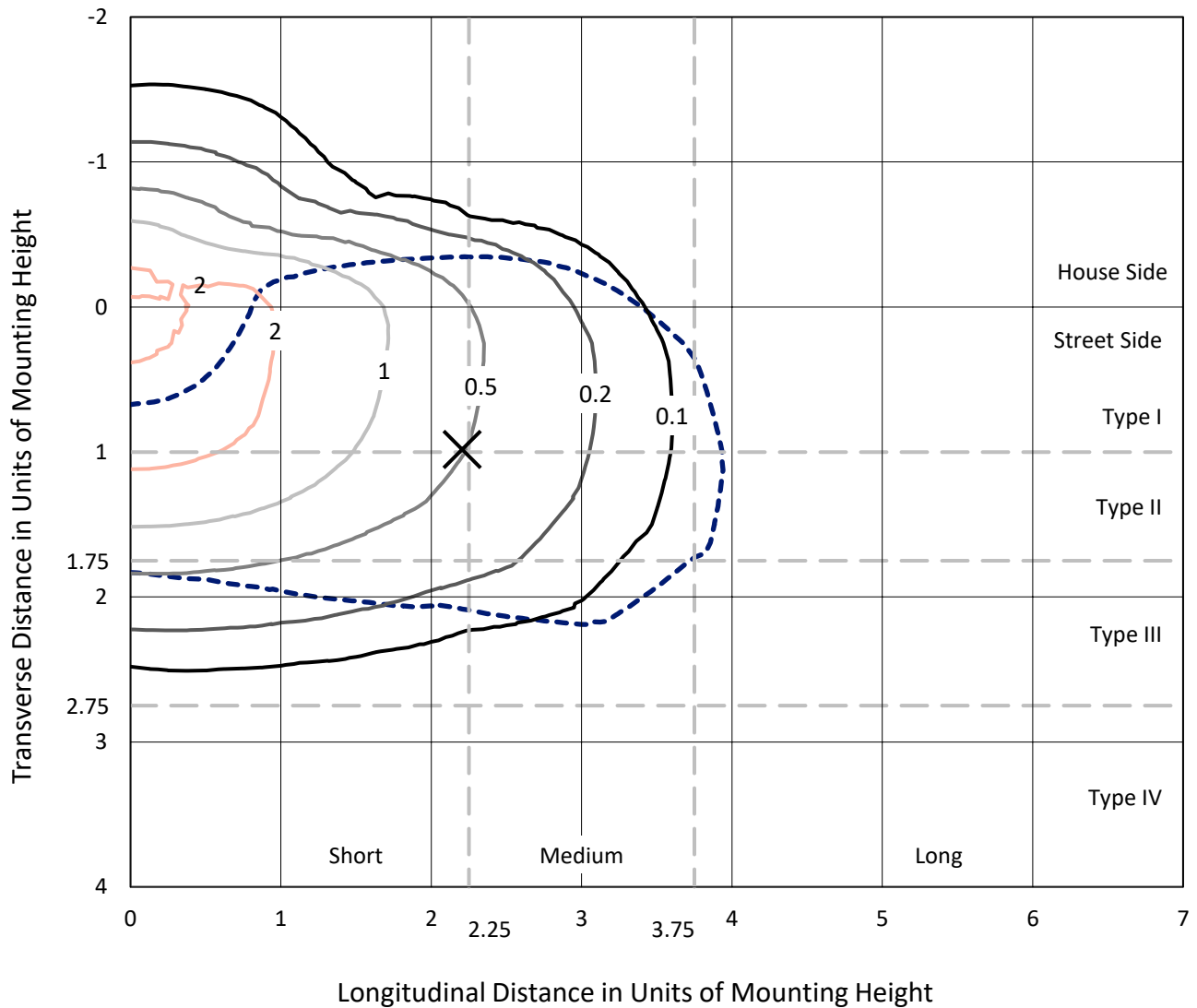
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

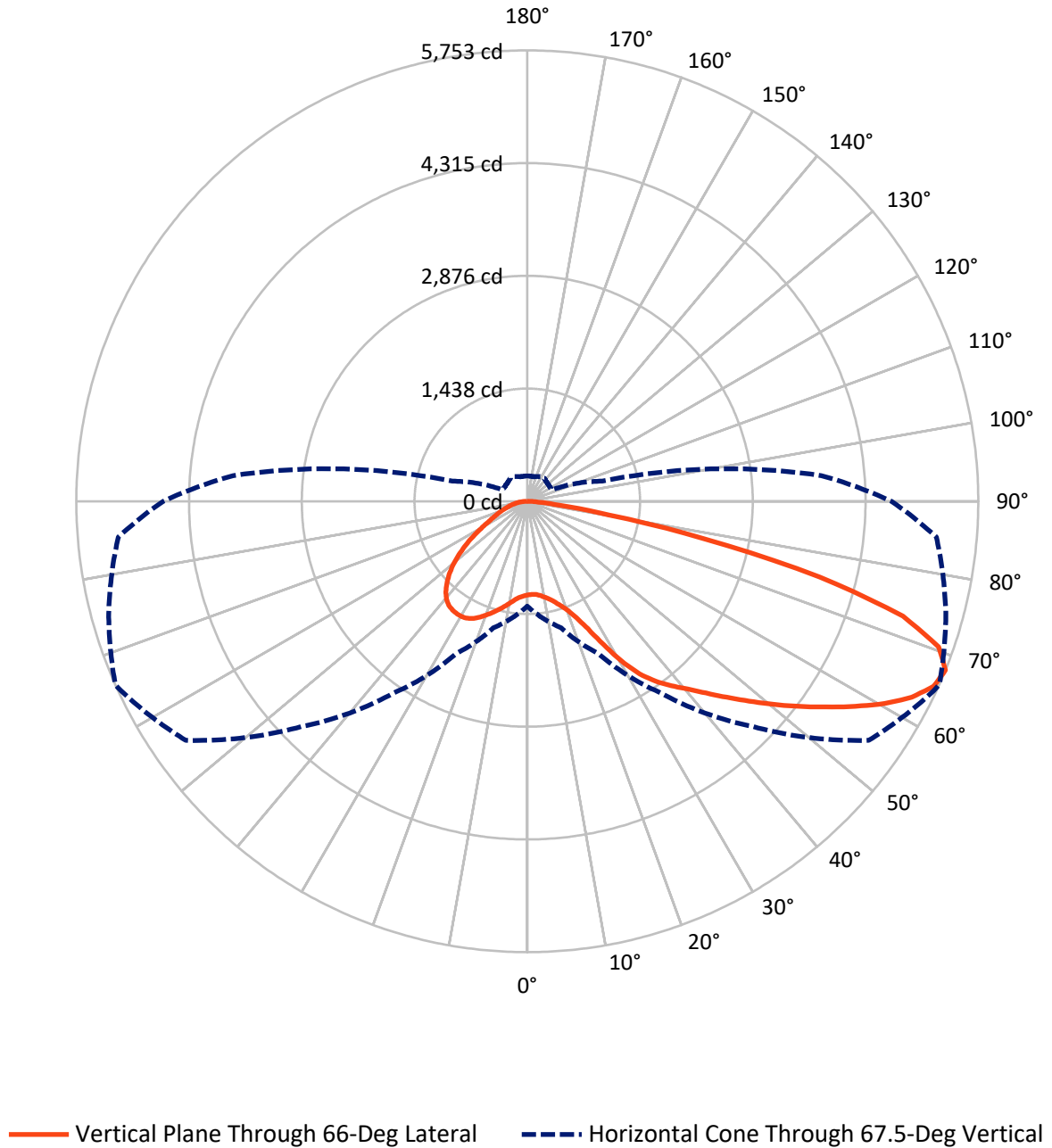
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2679.7	0.0	2679.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	8097.3	0.0	8097.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	10777.0	0.0	10777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	1.1
10°-20°	391.5	3.6
20°-30°	754.7	7.0
30°-40°	1323.2	12.3
40°-50°	1967.2	18.3
50°-60°	2493.6	23.1
60°-70°	2439.9	22.6
70°-80°	1163.9	10.8
80°-90°	124.4	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°	10777.0	100.0
0°-180°	10777.0	100.0

Coefficient of Utilization



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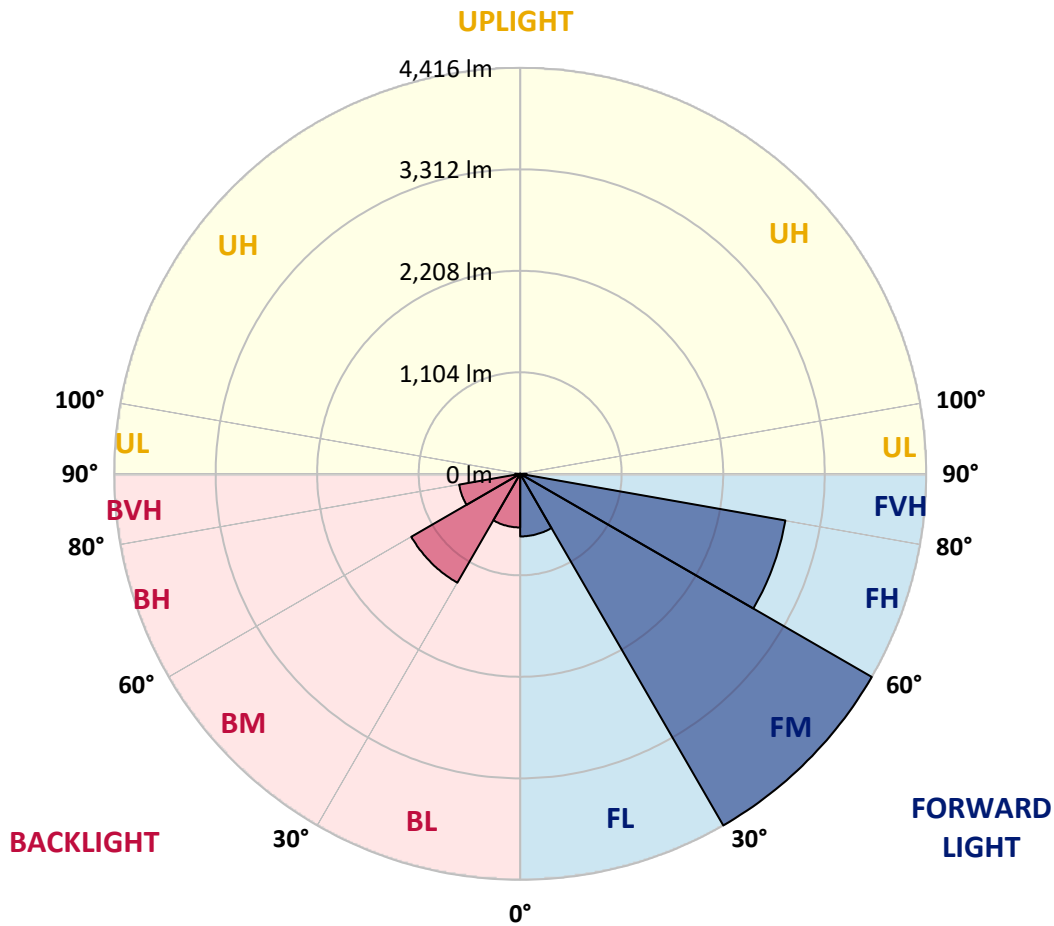
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.0	6.3			
FM (30°-60°)	4416.3	41.0			
FH (60°-80°)	2929.5	27.2			G2/5000
FVH (80°-90°)	70.5	0.7			G1/100
BL (0°-30°)	583.7	5.4	B2/1000		
BM (30°-60°)	1367.7	12.7	B2/2500		
BH (60°-80°)	674.3	6.3	B2/1000		G2/1000
BVH (80°-90°)	53.9	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°	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3
2.5°	1182.9	1189.6	1188.0	1185.1	1184.6	1185.7	1187.4	1189.1	1188.5	1191.3
5°	1179.5	1186.3	1185.7	1185.7	1188.0	1192.5	1195.3	1198.1	1195.3	1198.7
7.5°	1181.7	1186.8	1189.1	1191.3	1197.0	1205.5	1212.3	1218.5	1215.1	1219.1
10°	1210.6	1214.6	1216.8	1216.8	1220.8	1230.4	1237.2	1248.5	1245.7	1251.9
12.5°	1263.3	1267.2	1267.2	1265.0	1267.8	1274.0	1276.3	1288.7	1283.6	1293.8
15°	1327.8	1335.7	1329.5	1325.5	1326.7	1332.9	1332.3	1342.0	1336.9	1345.4
17.5°	1399.2	1409.3	1399.2	1398.6	1396.3	1403.1	1403.7	1412.2	1403.1	1409.3
20°	1483.5	1497.7	1489.2	1492.0	1486.9	1489.8	1492.6	1505.0	1490.9	1495.4
22.5°	1602.4	1619.4	1610.4	1621.1	1617.7	1615.5	1614.9	1637.0	1614.9	1616.6
25°	1775.7	1796.1	1780.2	1794.9	1794.9	1802.3	1810.8	1839.1	1802.3	1791.6
27.5°	2031.6	2052.0	2020.9	2029.9	2027.1	2045.2	2036.2	2106.4	2066.7	2049.2
30°	2339.7	2375.9	2317.0	2314.7	2311.9	2340.8	2353.8	2400.2	2360.0	2342.5
32.5°	2672.6	2710.5	2640.3	2619.9	2609.2	2626.7	2616.0	2653.4	2625.6	2598.4
35°	3024.8	3062.2	2995.4	2955.7	2912.7	2875.9	2837.4	2847.0	2821.0	2779.6
37.5°	3357.7	3426.3	3355.5	3313.0	3233.7	3161.8	3054.2	3009.5	2985.2	2947.2
40°	3696.9	3736.0	3682.2	3646.0	3559.9	3447.2	3275.1	3180.5	3147.7	3110.9
42.5°	3946.6	3984.0	3955.1	3930.2	3862.8	3732.0	3509.5	3391.2	3343.6	3302.3
45°	4144.8	4172.5	4154.4	4163.5	4134.6	4007.8	3752.4	3617.1	3567.8	3517.4
47.5°	4224.6	4254.1	4283.0	4336.8	4386.0	4292.6	4013.4	3861.7	3809.6	3758.1
50°	4215.6	4245.6	4329.4	4443.8	4596.7	4565.5	4288.6	4122.2	4074.0	4015.1
52.5°	4143.1	4177.1	4284.7	4474.9	4718.4	4769.9	4568.9	4391.1	4345.8	4275.6
55°	3952.9	3973.2	4134.6	4404.1	4747.3	4912.6	4843.5	4677.6	4632.3	4534.4
57.5°	3600.1	3629.5	3864.5	4213.3	4674.8	5009.4	5084.7	4978.9	4935.3	4794.3
60°	3139.7	3186.7	3455.7	3892.8	4490.2	5008.9	5303.9	5275.0	5238.8	5050.2
62.5°	2618.8	2673.2	2931.9	3439.8	4167.5	4866.7	5440.9	5523.0	5504.3	5286.3
65°	2011.2	2048.6	2306.3	2853.8	3665.2	4561.5	5456.8	5692.3	5695.7	5465.8
67.5°	1339.1	1446.7	1670.4	2141.5	2992.5	4062.7	5317.5	5720.1	5752.9	5527.5
70°	653.4	795.0	1014.1	1391.8	2141.5	3297.7	4953.4	5492.4	5565.5	5347.5
72.5°	271.2	317.1	436.6	686.8	1229.3	2225.3	4221.8	4875.2	5010.6	4738.2
75°	182.9	198.2	249.7	352.2	560.0	1097.4	3044.6	3635.2	3853.2	3578.6
77.5°	141.0	150.6	181.8	246.3	332.9	415.0	1629.6	2190.7	2303.4	2132.4
80°	111.0	118.3	135.9	179.5	236.1	222.0	555.5	992.6	1057.7	887.3
82.5°	96.3	99.1	97.4	121.7	156.8	129.7	182.3	366.4	404.3	293.3
85°	69.6	77.6	81.0	75.3	83.2	65.7	74.7	129.7	142.7	127.4
87.5°	28.3	41.9	51.5	48.7	30.6	18.7	23.2	37.9	43.6	47.6
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°
1195.3	0°	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3
1195.9	2.5°	1196.4	1200.4	1203.2	1206.6	1208.9	1212.3	1219.1	1223.1	1223.6	1226.5
1204.9	5°	1207.2	1212.9	1219.1	1228.2	1238.3	1246.8	1259.9	1268.9	1272.3	1275.2
1227.0	7.5°	1230.4	1238.3	1249.7	1265.5	1280.2	1291.6	1307.4	1318.2	1328.9	1332.9
1262.1	10°	1265.0	1276.3	1292.7	1314.2	1330.1	1344.8	1361.2	1370.3	1381.0	1385.6
1304.0	12.5°	1308.0	1319.9	1341.4	1371.4	1386.1	1396.3	1402.0	1399.7	1402.0	1405.9
1354.4	15°	1357.3	1370.3	1394.6	1426.9	1437.1	1428.0	1415.6	1404.3	1402.6	1403.7
1415.6	17.5°	1415.6	1425.2	1453.5	1480.7	1473.3	1436.0	1408.8	1390.7	1381.6	1378.8
1493.7	20°	1497.1	1497.1	1520.3	1537.3	1488.1	1424.6	1382.2	1352.7	1334.0	1326.1
1600.2	22.5°	1596.2	1587.1	1601.9	1590.0	1485.2	1392.9	1334.0	1283.1	1254.8	1243.4
1749.1	25°	1721.9	1711.1	1707.2	1633.6	1464.8	1342.5	1246.8	1185.1	1160.2	1154.0
1963.7	27.5°	1911.6	1884.4	1832.9	1657.4	1427.5	1263.3	1144.9	1087.7	1073.6	1074.1
2239.4	30°	2164.1	2109.8	1983.5	1661.3	1366.3	1151.1	1040.7	1000.0	993.2	996.0
2471.0	32.5°	2398.0	2346.5	2137.5	1643.2	1272.3	1041.3	947.3	920.1	909.9	913.3
2647.7	35°	2581.4	2567.3	2280.2	1617.7	1156.8	938.2	863.5	840.3	820.5	815.9
2814.2	37.5°	2754.7	2749.0	2387.2	1582.0	1042.4	865.2	796.1	765.5	736.7	720.8
2998.2	40°	2945.0	2939.3	2457.4	1527.1	941.1	801.8	735.5	695.3	659.7	630.8
3206.6	42.5°	3159.0	3125.6	2490.8	1448.4	855.0	748.0	686.3	631.9	584.9	558.3
3442.1	45°	3392.9	3317.5	2490.3	1348.2	782.5	698.7	633.6	556.6	513.0	488.1
3683.9	47.5°	3640.9	3501.0	2459.7	1237.2	712.3	644.4	552.1	493.2	464.3	449.0
3946.6	50°	3896.8	3672.6	2407.6	1109.8	640.4	582.7	501.1	460.9	438.8	424.7
4207.1	52.5°	4137.4	3828.3	2344.8	965.4	567.4	522.6	478.5	447.3	424.1	408.3
4459.6	55°	4361.1	3962.5	2255.9	817.6	507.9	482.4	467.7	441.7	415.0	396.4
4716.1	57.5°	4559.9	4049.7	2102.4	678.9	465.4	454.7	456.4	432.0	401.5	385.6
4968.7	60°	4725.2	4113.7	1875.4	550.4	430.9	427.5	438.8	413.9	378.2	360.1
5182.1	62.5°	4824.3	4112.5	1596.8	450.7	401.5	402.6	415.6	391.3	355.0	338.0
5293.7	65°	4815.8	4011.7	1291.0	385.6	373.1	374.3	391.3	366.4	335.8	325.6
5237.6	67.5°	4645.4	3766.0	990.3	343.1	342.0	347.1	366.9	349.4	323.9	322.8
4903.6	70°	4183.9	3255.8	713.4	309.2	309.7	317.1	343.1	338.6	317.7	319.9
4122.7	72.5°	3354.9	2482.4	479.0	273.5	274.1	285.9	320.5	330.1	311.4	341.4
2925.1	75°	2234.3	1548.1	308.0	235.6	236.1	251.4	300.7	313.7	294.4	340.3
1522.0	77.5°	1073.6	695.9	223.1	198.2	198.2	212.3	259.9	280.9	250.8	264.4
489.2	80°	370.9	261.6	175.5	159.7	156.3	165.9	219.1	243.5	216.3	199.3
159.7	82.5°	146.1	135.9	141.0	124.0	112.7	118.9	170.4	201.0	159.1	143.8
90.0	85°	83.8	88.3	99.7	82.1	65.1	73.0	125.1	144.4	120.0	105.9
29.4	87.5°	22.6	31.1	45.9	42.5	29.4	31.1	59.5	79.8	69.1	53.2
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>
1195.3
1225.9
1274.6
1333.5
1387.8
1407.1
1407.6
1382.7
1324.4
1241.7
1155.1
1075.8
1005.6
917.9
819.3
721.4
633.6
560.0
487.0
445.6
419.6
401.5
389.0
375.4
352.2
332.9
325.0
324.4
319.4
346.0
343.1
242.3
186.9
143.3
108.1
54.9
0.0

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