

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: P939102

Luminaire Tested: **GALN-SB1C-750-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-750-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7857 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

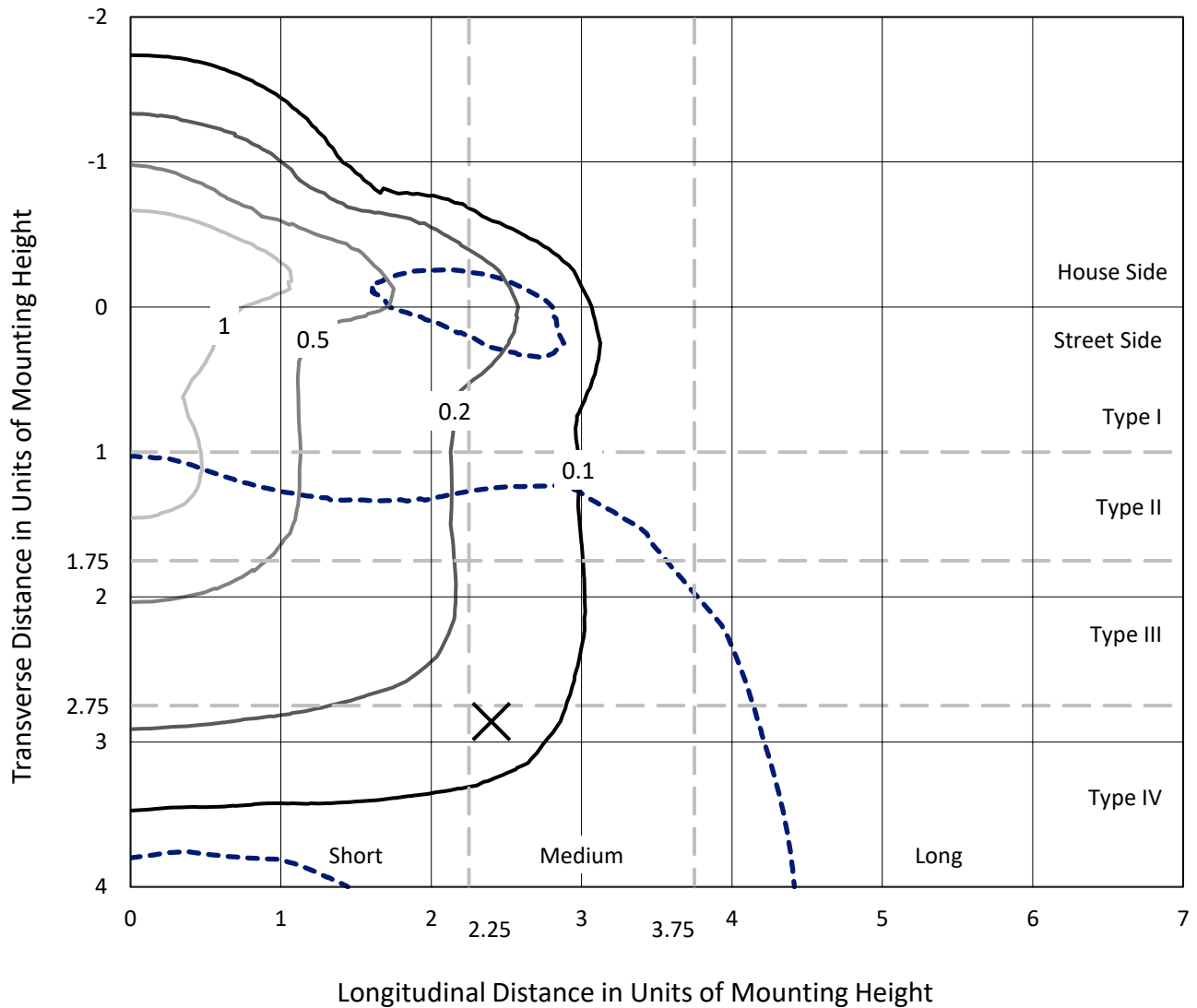
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

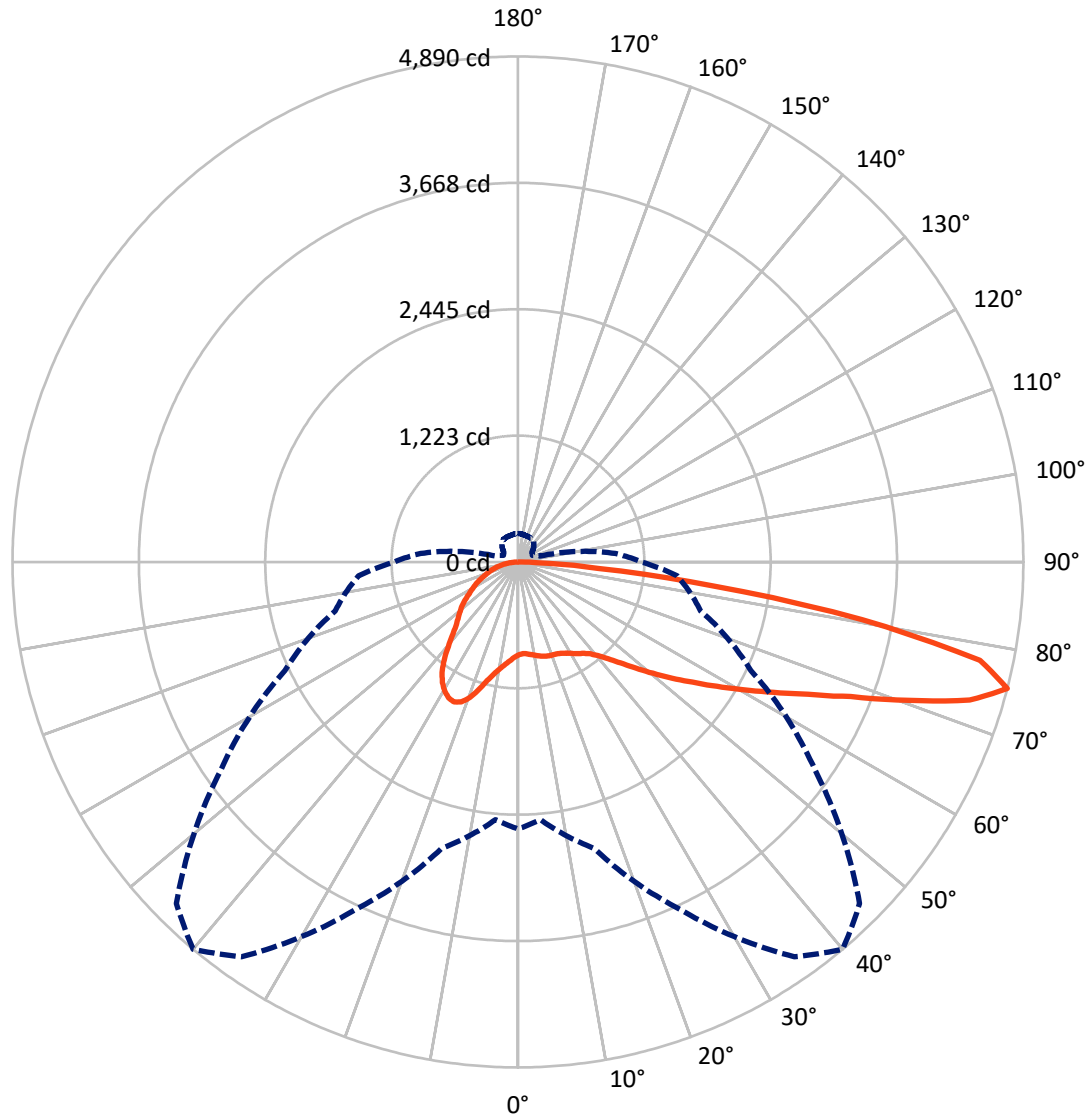
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2434.4	0.0	2434.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	5422.6	0.0	5422.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	7857.0	0.0	7857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.1
10°-20°	301.1	3.8
20°-30°	549.8	7.0
30°-40°	779.8	9.9
40°-50°	1052.9	13.4
50°-60°	1416.5	18.0
60°-70°	1797.8	22.9
70°-80°	1631.6	20.8
80°-90°	237.8	3.0
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°	7857.0	100.0
0°-180°	7857.0	100.0

Coefficient of Utilization



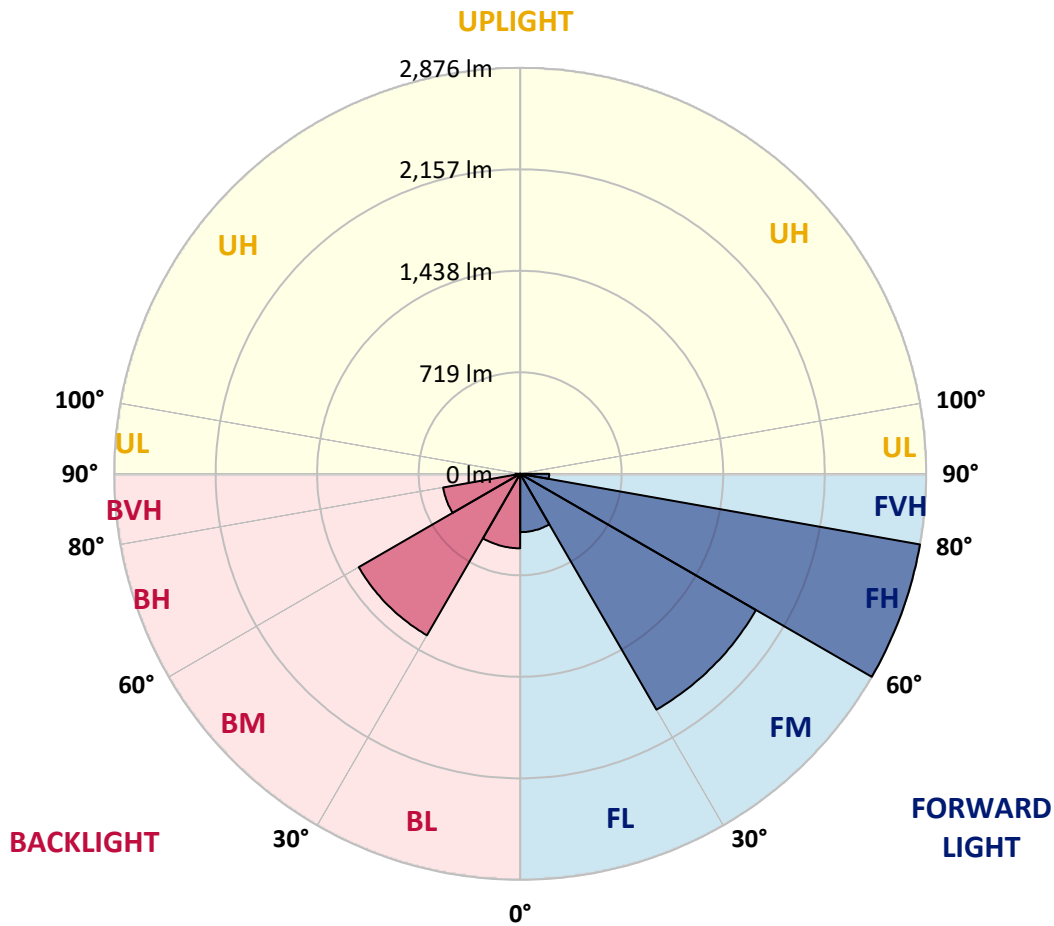
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	413.3	5.3			
FM (30°-60°)	1928.7	24.5			
FH (60°-80°)	2875.5	36.6			G2/5000
FVH (80°-90°)	205.1	2.6			G2/225
BL (0°-30°)	527.3	6.7	B2/1000		
BM (30°-60°)	1320.4	16.8	B2/2500		
BH (60°-80°)	553.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	32.7	0.4			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5
2.5°	884.7	889.7	888.5	886.8	886.8	887.2	886.8	889.7	892.6	895.5
5°	893.9	898.9	896.4	894.3	892.6	892.2	891.0	890.5	892.2	896.0
7.5°	911.8	916.8	913.0	909.3	906.0	904.3	902.6	900.1	898.9	901.0
10°	931.8	936.8	932.2	925.5	920.1	918.0	916.4	913.9	912.2	913.5
12.5°	951.8	956.8	950.5	941.4	934.3	933.0	931.0	930.1	929.7	929.3
15°	970.6	974.7	966.8	956.0	948.5	946.4	944.3	945.5	947.6	950.1
17.5°	985.1	989.3	977.6	963.5	956.4	955.5	954.3	958.5	964.3	970.6
20°	998.5	1002.6	987.6	968.5	960.1	960.1	960.6	969.3	977.6	986.8
22.5°	1017.2	1020.6	1002.2	976.0	963.9	964.7	968.1	976.8	987.2	999.7
25°	1045.1	1047.6	1025.1	990.1	976.4	978.9	981.8	986.0	996.0	1010.6
27.5°	1090.2	1092.2	1062.6	1015.1	994.3	998.5	1002.6	999.7	1004.3	1016.8
30°	1153.5	1154.7	1117.2	1054.3	1024.7	1026.8	1027.6	1015.6	1006.8	1016.8
32.5°	1228.5	1228.1	1183.5	1101.8	1059.3	1057.2	1050.1	1026.4	1006.0	1014.7
35°	1344.8	1340.2	1282.7	1168.5	1098.5	1085.6	1068.9	1038.5	1010.1	1012.6
37.5°	1537.3	1523.1	1443.5	1277.7	1156.8	1123.9	1099.3	1058.1	1019.3	1011.8
40°	1754.4	1736.5	1649.0	1427.3	1244.3	1191.4	1151.8	1086.0	1034.3	1015.6
42.5°	2011.9	1986.5	1892.3	1603.6	1355.2	1278.5	1218.9	1121.4	1056.4	1027.6
45°	2328.2	2294.5	2161.1	1802.3	1494.8	1392.7	1313.1	1175.2	1090.2	1051.0
47.5°	2647.9	2656.2	2466.6	2029.9	1662.3	1533.5	1431.0	1256.0	1139.3	1088.5
50°	2987.5	2993.3	2770.4	2282.0	1852.3	1692.7	1563.6	1346.4	1207.7	1141.8
52.5°	3252.5	3253.4	3046.3	2545.8	2050.3	1867.8	1706.5	1449.8	1286.8	1212.7
55°	3418.4	3416.3	3239.6	2795.4	2277.8	2051.5	1864.8	1567.3	1383.5	1296.0
57.5°	3538.8	3532.6	3373.0	3010.0	2520.4	2268.6	2044.0	1700.7	1497.7	1395.2
60°	3584.7	3580.9	3463.4	3195.4	2775.4	2508.7	2250.7	1849.8	1627.3	1512.3
62.5°	3602.2	3609.3	3552.2	3375.1	3048.3	2774.6	2477.8	2028.2	1773.2	1644.8
65°	3663.8	3676.8	3665.1	3610.1	3356.7	3085.8	2779.1	2240.3	1932.4	1786.9
67.5°	3785.9	3798.9	3803.9	3891.4	3733.4	3473.8	3155.0	2504.5	2118.6	1934.4
70°	3783.0	3779.3	3867.6	4115.2	4205.2	4011.0	3661.8	2829.6	2340.7	2057.0
72.5°	3443.4	3413.4	3622.2	4112.7	4597.7	4571.9	4280.6	3248.8	2532.4	2072.0
75°	2583.3	2503.3	2872.1	3706.3	4663.1	4890.3	4674.0	3508.8	2487.0	1830.7
77.5°	1104.7	1024.3	1459.0	2743.7	4173.5	4571.5	4313.1	3061.3	1985.3	1210.6
80°	289.2	288.8	440.9	1243.9	2838.3	3375.9	2961.7	1976.9	1134.3	432.6
82.5°	119.6	116.7	162.1	483.8	1386.9	1894.4	1546.0	881.8	409.6	117.1
85°	44.6	44.2	78.8	167.1	489.2	781.4	565.5	225.4	102.1	57.1
87.5°	12.5	12.1	17.1	57.9	119.2	180.9	96.7	37.1	28.8	22.5
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°
898.5	0°	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5
900.1	2.5°	901.4	903.5	907.2	910.1	913.9	918.0	923.9	927.6	931.4	933.9
902.2	5°	905.1	909.7	919.3	928.9	940.1	950.5	962.6	971.4	978.5	980.6
909.7	7.5°	913.5	921.0	937.2	953.5	971.4	988.5	1006.0	1021.0	1033.1	1037.6
923.0	10°	928.0	938.0	961.0	983.9	1007.6	1033.9	1056.4	1078.1	1095.2	1102.2
938.9	12.5°	946.4	958.9	988.9	1020.6	1053.5	1089.7	1118.9	1145.6	1166.8	1176.4
961.0	15°	970.1	986.4	1024.7	1067.2	1115.6	1166.0	1203.1	1232.7	1256.4	1268.1
983.9	17.5°	996.0	1017.6	1066.0	1130.2	1199.3	1265.6	1308.9	1330.6	1355.2	1366.4
1005.1	20°	1021.0	1047.6	1116.8	1210.2	1302.3	1372.7	1407.7	1413.5	1415.2	1416.4
1025.1	22.5°	1046.8	1082.7	1180.6	1311.0	1409.8	1458.5	1463.5	1438.5	1403.5	1387.3
1044.7	25°	1075.1	1122.7	1263.9	1422.3	1502.3	1508.1	1469.8	1408.9	1342.7	1312.3
1060.6	27.5°	1102.7	1168.9	1363.9	1528.5	1569.0	1517.7	1435.2	1348.9	1268.9	1236.8
1071.8	30°	1130.2	1221.8	1474.4	1621.5	1599.4	1494.0	1380.6	1284.3	1203.9	1170.2
1081.8	32.5°	1158.1	1283.5	1601.5	1688.6	1594.0	1443.5	1312.7	1211.8	1141.0	1105.6
1090.6	35°	1189.7	1359.4	1721.9	1725.2	1557.7	1369.4	1223.1	1125.2	1063.5	1035.1
1101.0	37.5°	1231.0	1455.6	1828.2	1734.4	1494.4	1260.6	1111.8	1022.6	971.8	958.9
1116.4	40°	1282.3	1571.5	1909.4	1719.8	1400.6	1128.5	990.1	918.9	890.1	893.0
1137.2	42.5°	1348.9	1701.1	1966.5	1682.3	1270.2	992.2	883.5	851.8	865.5	877.2
1168.5	45°	1435.6	1835.7	2001.9	1618.6	1122.7	876.8	820.5	828.0	838.5	839.7
1218.9	47.5°	1546.5	1971.9	2025.3	1522.3	972.2	795.5	780.5	782.2	780.1	771.4
1294.3	50°	1684.8	2104.5	2046.1	1394.8	844.3	744.7	724.7	718.9	690.1	661.8
1394.8	52.5°	1842.3	2226.1	2054.9	1236.4	744.7	702.2	669.7	633.0	579.2	570.5
1521.0	55°	2017.4	2338.7	2032.4	1041.8	660.9	647.6	598.4	554.2	548.4	540.9
1687.3	57.5°	2226.6	2459.9	1986.5	824.7	575.1	583.8	535.9	540.9	530.5	518.8
1901.1	60°	2455.3	2585.4	1906.1	626.8	486.3	504.2	519.7	519.2	516.3	506.7
2126.5	62.5°	2661.2	2667.9	1747.7	480.1	408.4	442.6	484.7	484.2	481.7	476.3
2362.0	65°	2783.7	2655.4	1483.5	378.0	344.2	391.7	437.1	440.5	440.9	440.5
2539.1	67.5°	2762.1	2509.1	1121.0	300.9	291.3	340.0	390.1	394.6	398.0	398.8
2561.6	70°	2517.0	2187.8	730.9	240.0	244.2	294.6	345.5	350.0	353.0	356.3
2222.8	72.5°	1961.9	1608.6	418.4	194.2	202.9	255.5	301.3	306.7	308.4	314.6
1546.9	75°	1195.6	946.0	225.9	152.9	166.7	218.4	257.5	263.8	266.7	274.2
759.7	77.5°	568.4	409.6	128.8	119.2	134.2	178.4	217.5	224.6	216.7	220.9
209.6	80°	192.1	152.1	81.3	90.8	102.5	139.2	174.2	181.3	164.6	163.8
69.6	82.5°	67.1	61.7	51.7	60.4	66.3	99.6	131.7	140.9	122.5	122.1
31.3	85°	26.3	25.0	28.8	32.9	39.6	61.3	86.7	91.3	75.4	60.8
9.2	87.5°	5.4	5.8	7.1	7.5	12.1	21.3	31.3	38.3	30.4	25.8
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>
898.5
932.2
981.4
1038.1
1102.7
1176.4
1267.3
1366.0
1419.8
1391.9
1316.9
1240.6
1173.9
1110.2
1041.4
968.1
903.0
888.0
848.0
778.0
665.5
573.4
542.2
516.7
503.4
474.2
440.5
399.6
358.0
317.1
275.0
217.5
162.1
116.3
60.0
23.8
0.0

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