

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: P939251

Luminaire Tested: **GALN-SB1D-735-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7106 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

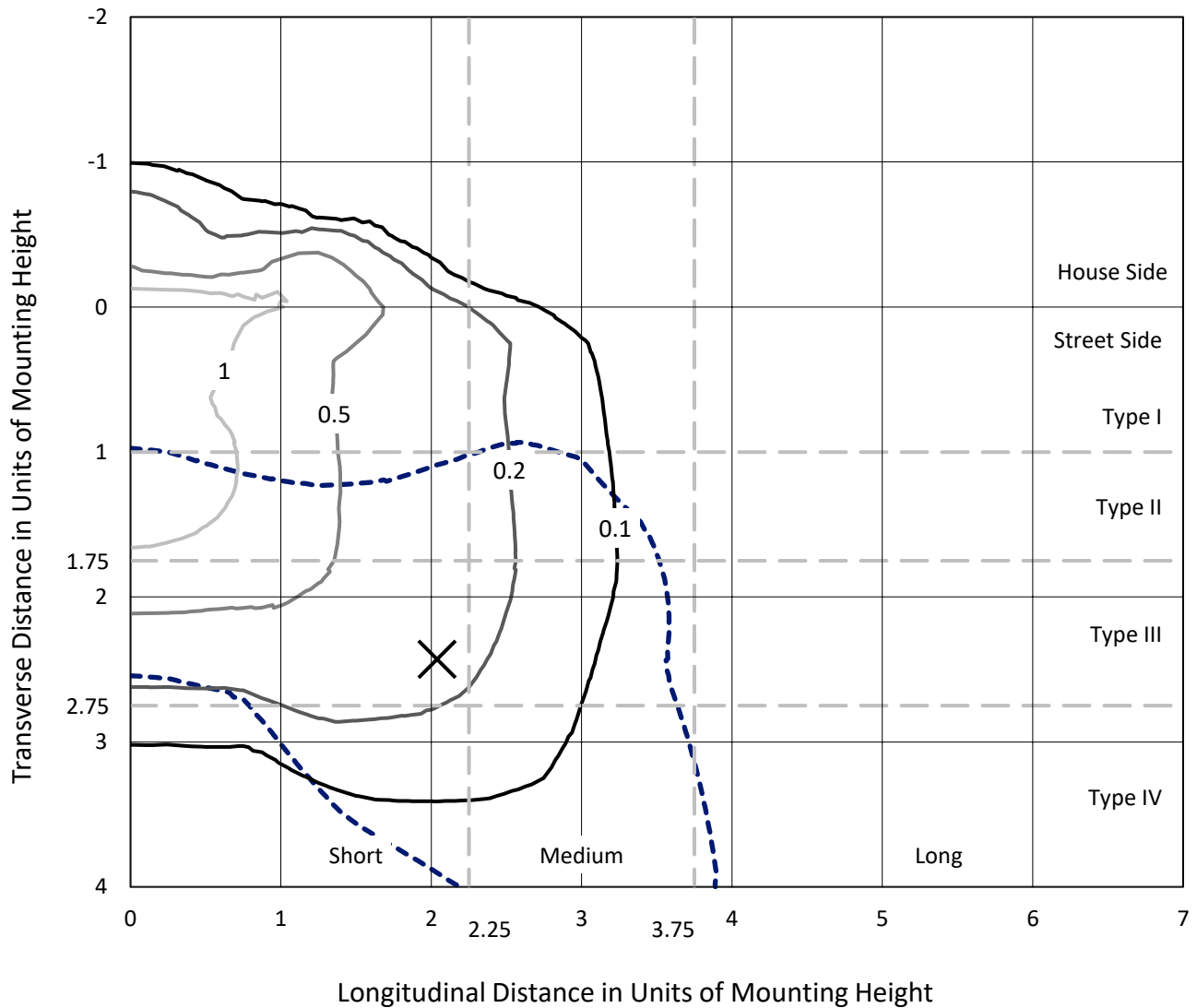
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

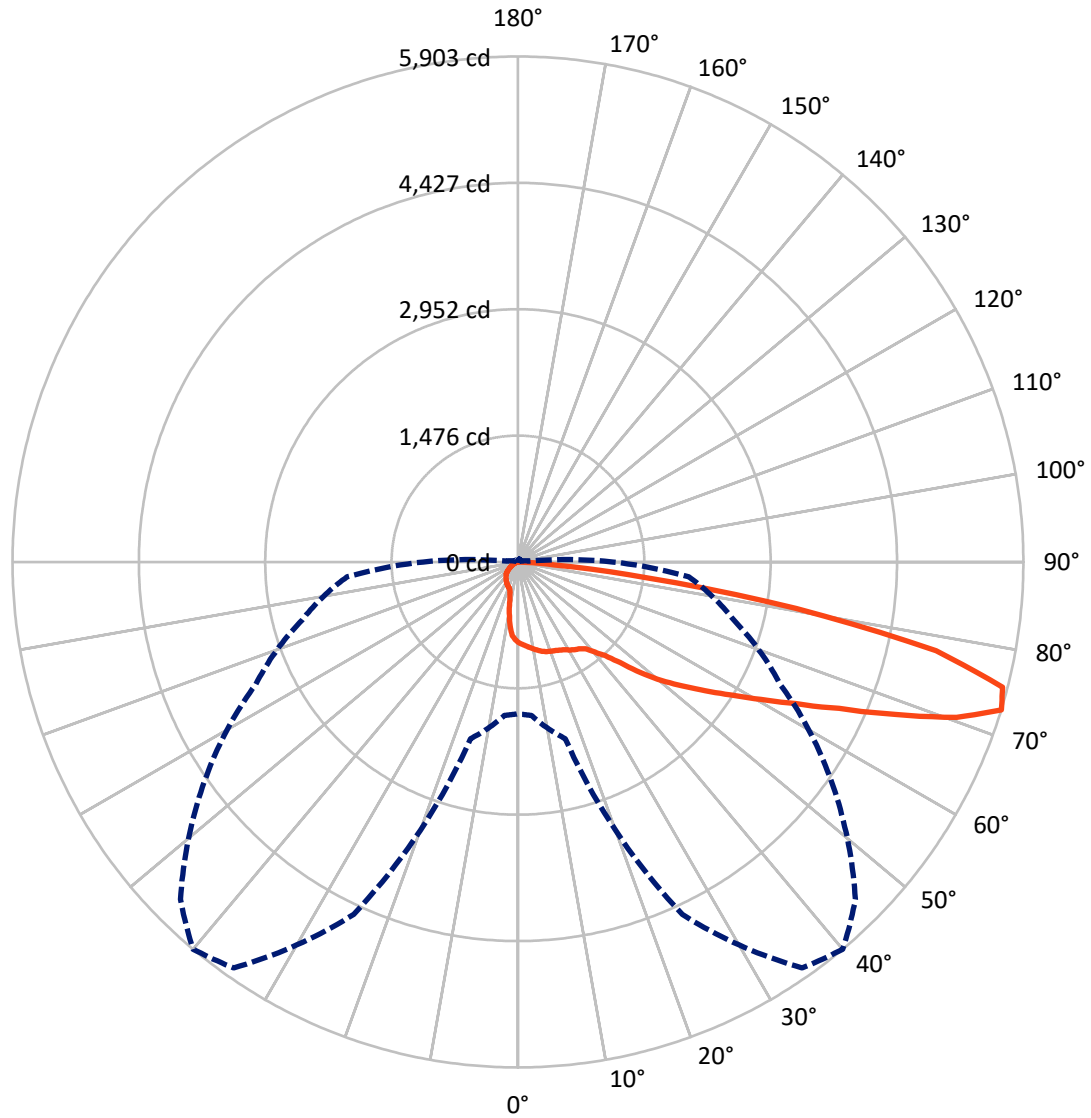
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	917.7	0.0	917.7
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	6188.3	0.0	6188.3
	% Fixture	87.1	0.0	87.1
Total	Lumens	7106.0	0.0	7106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	1.2
10°-20°	233.4	3.3
20°-30°	377.6	5.3
30°-40°	557.4	7.8
40°-50°	938.2	13.2
50°-60°	1456.8	20.5
60°-70°	1822.8	25.7
70°-80°	1492.4	21.0
80°-90°	141.5	2.0
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°	7106.0	100.0
0°-180°	7106.0	100.0

Coefficient of Utilization



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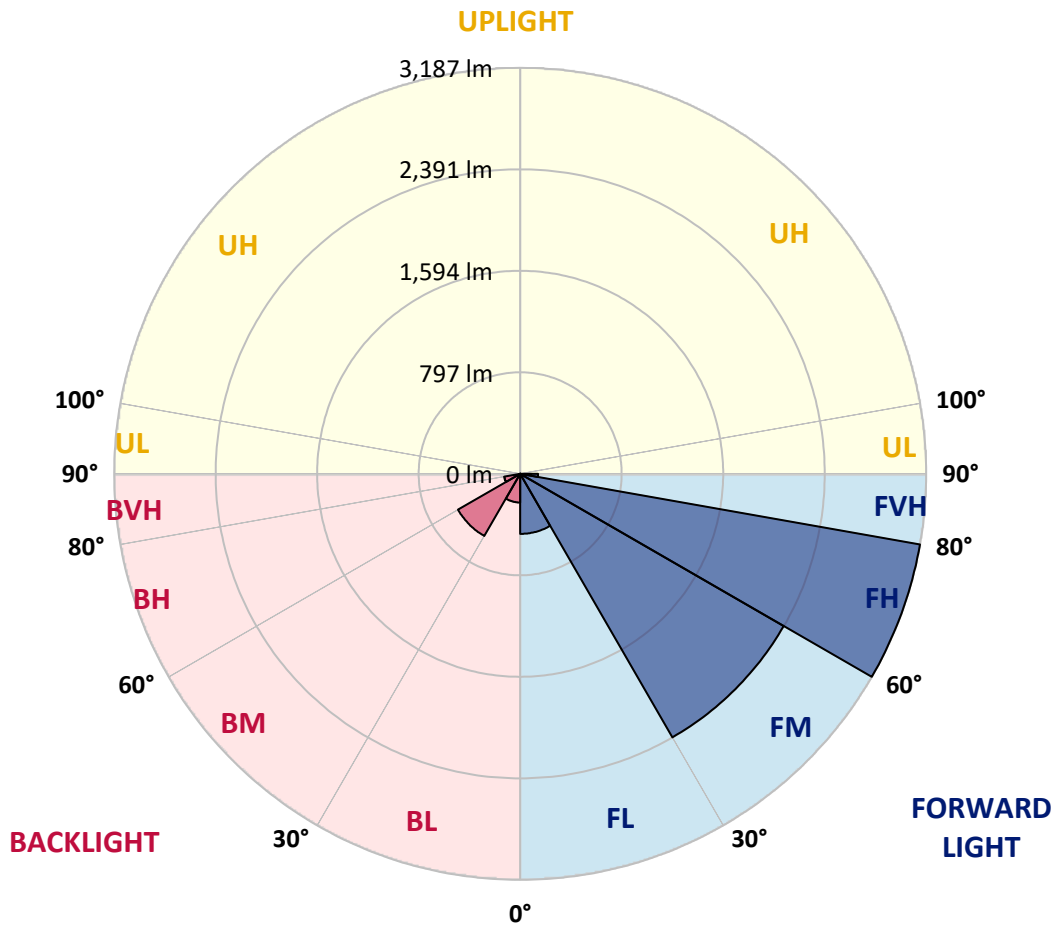
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.6	6.6			
FM (30°-60°)	2388.9	33.6			
FH (60°-80°)	3187.4	44.9			G2/5000
FVH (80°-90°)	140.4	2.0			G2/225
BL (0°-30°)	225.2	3.2	B1/500		
BM (30°-60°)	563.5	7.9	B1/1000		
BH (60°-80°)	127.8	1.8	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9
2.5°	969.3	973.0	970.9	966.6	965.5	963.4	960.7	959.6	955.9	952.7
5°	996.6	1000.3	997.6	991.7	989.1	986.4	982.6	979.4	971.9	965.0
7.5°	1026.5	1029.7	1026.5	1018.0	1013.7	1010.5	1005.1	1000.3	991.7	981.6
10°	1059.7	1062.4	1057.6	1046.3	1039.4	1034.6	1029.7	1024.4	1016.4	1005.1
12.5°	1090.7	1094.0	1086.5	1073.1	1065.1	1060.2	1054.9	1050.6	1042.6	1031.9
15°	1119.1	1123.9	1111.1	1096.6	1087.5	1083.8	1078.4	1075.8	1070.4	1062.9
17.5°	1140.5	1143.7	1130.4	1113.2	1103.1	1100.4	1096.6	1098.2	1097.2	1093.4
20°	1158.7	1160.9	1143.2	1122.3	1111.1	1111.6	1110.6	1115.9	1118.0	1118.0
22.5°	1181.2	1181.7	1159.3	1133.0	1119.7	1123.4	1125.0	1130.9	1135.2	1139.5
25°	1210.6	1209.6	1182.8	1146.9	1135.2	1140.5	1144.3	1146.4	1151.2	1158.2
27.5°	1254.5	1251.3	1217.1	1169.4	1155.5	1160.3	1167.3	1166.2	1164.1	1169.4
30°	1310.2	1305.9	1260.4	1201.0	1188.2	1192.4	1194.6	1184.9	1169.4	1174.2
32.5°	1398.5	1391.0	1327.8	1236.3	1216.5	1221.3	1218.7	1198.9	1175.8	1180.7
35°	1552.1	1533.9	1444.5	1310.2	1248.6	1243.3	1236.9	1217.6	1189.2	1184.4
37.5°	1878.6	1846.5	1693.9	1454.2	1321.4	1286.6	1266.8	1247.6	1203.7	1184.4
40°	2246.8	2214.1	2038.1	1695.0	1442.4	1383.5	1336.4	1282.9	1218.7	1191.4
42.5°	2631.1	2595.2	2414.3	1993.6	1615.3	1494.3	1406.5	1311.3	1243.3	1212.8
45°	3060.3	3015.4	2778.8	2305.1	1866.3	1678.4	1519.4	1369.6	1286.1	1250.8
47.5°	3513.1	3454.8	3142.2	2607.5	2136.5	1933.2	1726.0	1474.0	1349.3	1307.5
50°	3914.5	3856.7	3517.4	2923.8	2389.2	2175.6	1961.5	1618.5	1444.0	1387.8
52.5°	4203.0	4159.1	3858.8	3250.3	2651.9	2403.1	2175.1	1786.5	1563.9	1490.5
55°	4396.2	4356.0	4100.7	3559.7	2957.5	2653.6	2385.4	1969.0	1708.4	1613.6
57.5°	4513.4	4490.4	4275.8	3835.8	3260.5	2927.6	2626.3	2169.7	1878.6	1758.7
60°	4555.1	4536.4	4384.4	4099.1	3626.6	3256.7	2909.4	2396.1	2085.2	1923.5
62.5°	4443.8	4447.6	4462.5	4411.2	4012.4	3642.1	3248.7	2668.0	2314.2	2110.3
65°	3919.8	3950.9	4235.6	4756.9	4523.6	4124.8	3680.6	2999.8	2576.5	2322.8
67.5°	3245.5	3290.4	3644.8	4959.2	5068.4	4751.6	4282.2	3422.6	2889.0	2539.0
70°	2484.4	2532.6	2961.8	4916.9	5578.5	5436.6	5026.1	3960.5	3212.8	2688.9
72.5°	1773.1	1797.8	2136.0	4540.7	5787.7	5903.3	5574.2	4470.0	3378.2	2605.9
75°	1246.0	1241.7	1465.9	3656.5	5461.8	5846.6	5382.0	4194.4	3057.1	2070.2
77.5°	542.7	543.8	732.2	2220.6	4359.3	4993.5	4473.8	2627.3	2131.2	1097.2
80°	140.8	145.0	268.7	884.2	2624.6	3295.8	2728.5	1155.0	984.8	267.6
82.5°	49.8	53.0	123.6	277.8	968.2	1511.4	1214.9	369.3	256.9	76.5
85°	14.5	17.1	66.4	85.1	200.2	427.1	294.9	71.7	63.2	39.6
87.5°	0.0	2.1	13.4	11.8	11.8	8.0	15.0	8.0	10.2	4.8
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°
940.9	0°	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9
948.9	2.5°	945.7	942.0	933.9	925.4	917.3	909.9	907.7	899.7	895.9	896.5
956.4	5°	950.5	943.6	928.0	909.3	890.0	868.1	849.9	824.2	802.3	799.6
970.9	7.5°	963.4	952.1	927.0	890.6	842.4	781.9	725.7	670.1	638.5	621.4
992.3	10°	983.2	968.2	929.7	860.1	757.9	649.7	564.6	494.5	458.7	442.1
1018.5	12.5°	1006.7	990.1	933.9	808.2	648.7	506.8	414.8	372.0	364.5	363.4
1050.6	15°	1039.9	1021.7	938.8	738.0	530.4	385.9	343.6	344.1	350.0	353.2
1085.4	17.5°	1076.8	1058.6	931.8	652.4	413.7	329.7	328.6	333.4	342.0	345.2
1117.5	20°	1114.3	1097.2	907.2	551.8	334.5	314.2	318.4	323.8	332.4	336.6
1149.1	22.5°	1152.8	1137.8	868.1	444.8	301.9	302.9	308.3	313.6	323.3	328.1
1180.1	25°	1194.0	1181.2	816.2	356.4	287.9	291.2	298.1	304.5	314.7	320.6
1206.4	27.5°	1235.8	1226.2	757.3	297.6	275.1	278.8	286.9	295.4	305.6	312.6
1229.4	30°	1281.3	1275.9	710.2	275.6	262.8	266.0	275.1	284.7	296.0	304.5
1252.4	32.5°	1327.8	1326.8	687.2	291.7	251.5	253.7	261.7	271.3	285.3	296.0
1271.6	35°	1373.9	1376.0	673.8	337.2	247.8	241.9	247.3	255.8	272.4	285.8
1293.6	37.5°	1432.7	1438.1	673.3	386.4	256.9	230.1	233.9	239.8	254.2	269.7
1327.8	40°	1520.5	1548.9	707.5	428.7	273.0	219.4	220.5	221.6	229.1	241.9
1373.3	42.5°	1637.2	1720.2	831.2	457.6	279.4	209.8	206.1	200.2	199.1	206.1
1435.4	45°	1782.2	1927.3	1048.5	473.7	273.0	199.1	188.9	173.4	167.5	172.3
1519.4	47.5°	1953.0	2154.2	1305.9	477.4	262.3	185.7	167.5	147.2	142.4	144.0
1632.4	50°	2119.4	2324.4	1532.3	446.4	244.6	168.6	144.0	126.8	123.6	124.2
1765.6	52.5°	2266.6	2382.7	1596.5	373.0	221.0	147.7	123.6	111.9	109.7	109.7
1912.8	55°	2364.0	2319.6	1423.6	285.3	191.6	126.3	106.0	100.1	99.0	98.5
2077.1	57.5°	2384.3	2114.1	1075.2	206.1	149.9	106.5	94.2	91.0	88.8	86.7
2245.7	60°	2311.6	1771.5	684.5	144.0	112.4	91.0	83.5	81.4	77.1	72.8
2404.1	62.5°	2154.2	1338.0	378.9	100.1	90.4	77.6	73.9	71.2	63.2	56.2
2529.9	65°	1942.8	889.5	167.5	78.1	73.9	65.3	63.2	59.4	49.8	41.7
2577.6	67.5°	1730.3	512.2	75.5	62.6	59.4	53.5	51.9	49.2	42.3	34.8
2456.1	70°	1487.9	259.6	51.9	49.8	46.0	40.7	42.3	41.7	34.8	28.4
2003.3	72.5°	1107.9	129.0	39.1	37.5	33.2	28.9	34.8	34.3	27.3	21.4
1235.3	75°	627.3	63.7	28.4	26.2	19.8	21.4	27.8	26.2	18.7	13.9
521.3	77.5°	248.9	32.6	18.7	16.1	11.8	14.5	20.3	17.7	9.6	5.9
99.5	80°	57.3	16.1	9.6	7.0	5.4	8.6	10.7	6.4	2.7	0.5
26.8	82.5°	16.1	7.0	3.2	2.7	2.7	3.2	2.7	1.1	0.0	0.0
7.0	85°	5.4	3.2	1.1	0.5	0.5	0.5	0.5	0.0	0.0	0.0
2.1	87.5°	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
940.9
895.9
798.0
620.3
438.9
362.9
352.7
344.7
336.6
328.1
320.6
313.1
305.6
297.0
287.9
272.4
246.2
209.8
172.3
143.4
124.2
109.2
97.4
85.6
71.2
54.1
40.1
33.7
27.3
20.3
12.8
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0.0
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