

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: P939702

Luminaire Tested: **GALN-SB2B-935-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939702
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-SB2B-935-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7765 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

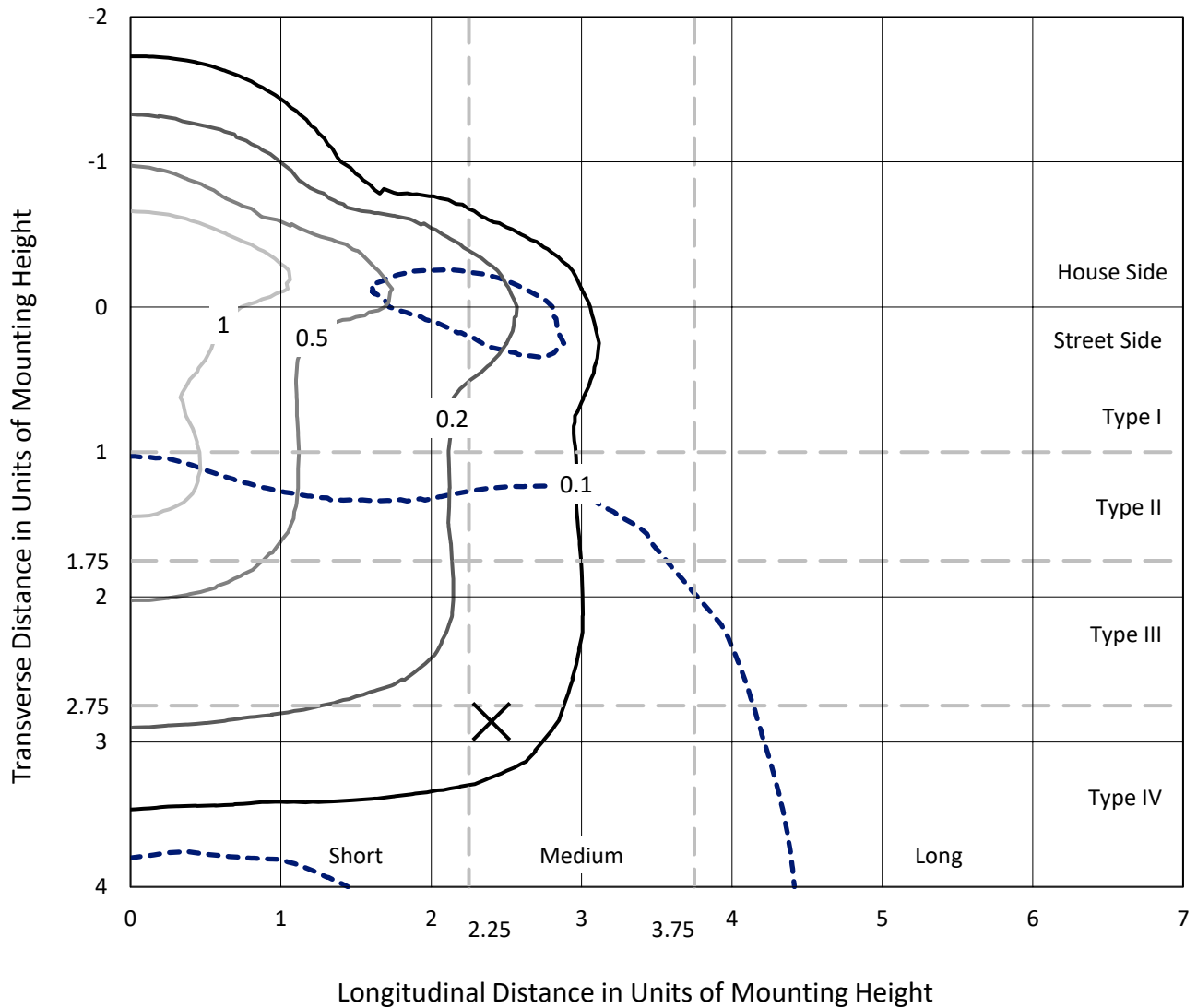
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

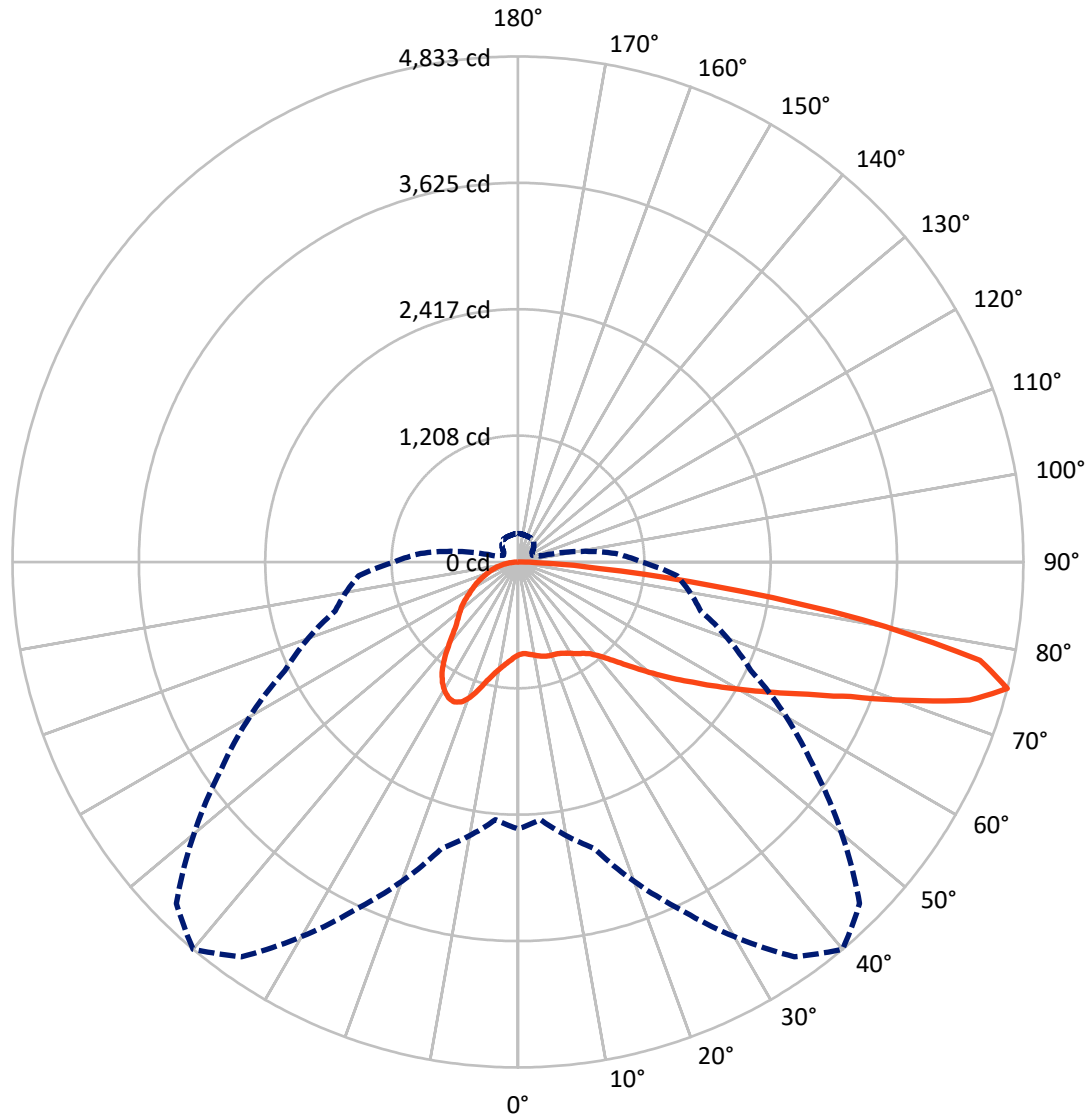
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	2405.9	0.0	2405.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	5359.1	0.0	5359.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	7765.0	0.0	7765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	1.1
10°-20°	297.6	3.8
20°-30°	543.4	7.0
30°-40°	770.6	9.9
40°-50°	1040.6	13.4
50°-60°	1399.9	18.0
60°-70°	1776.8	22.9
70°-80°	1612.5	20.8
80°-90°	235.1	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°	7765.0	100.0
0°-180°	7765.0	100.0

Coefficient of Utilization



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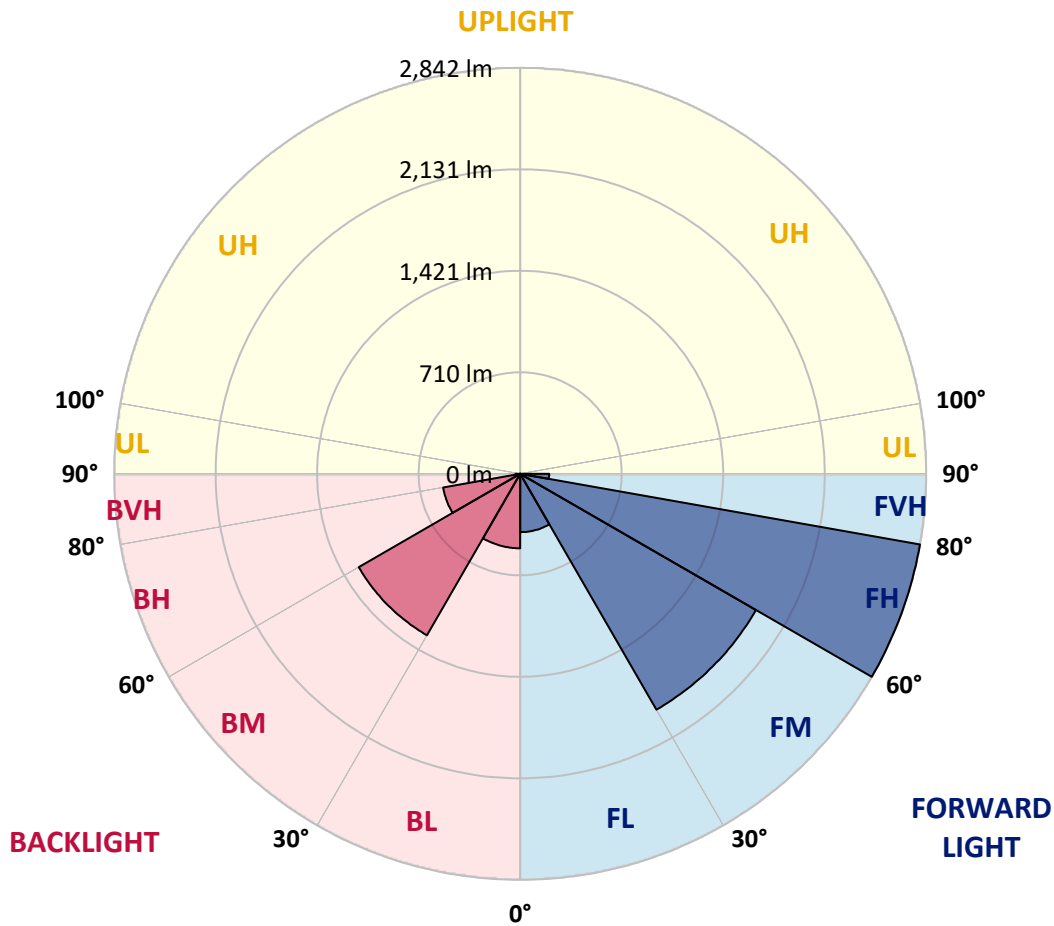
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.4	5.3			
FM (30°-60°)	1906.1	24.5			
FH (60°-80°)	2841.9	36.6			G2/5000
FVH (80°-90°)	202.7	2.6			G2/225
BL (0°-30°)	521.1	6.7	B2/1000		
BM (30°-60°)	1305.0	16.8	B2/2500		
BH (60°-80°)	547.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	32.4	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°	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9
2.5°	874.3	879.3	878.1	876.4	876.4	876.8	876.4	879.3	882.2	885.1
5°	883.4	888.3	885.9	883.8	882.2	881.8	880.5	880.1	881.8	885.5
7.5°	901.1	906.1	902.4	898.6	895.4	893.7	892.1	889.6	888.3	890.4
10°	920.9	925.8	921.3	914.7	909.4	907.3	905.6	903.2	901.5	902.8
12.5°	940.7	945.6	939.4	930.4	923.4	922.1	920.1	919.2	918.8	918.4
15°	959.2	963.3	955.5	944.8	937.4	935.3	933.2	934.5	936.5	939.0
17.5°	973.6	977.7	966.2	952.2	945.2	944.4	943.1	947.2	953.0	959.2
20°	986.8	990.9	976.1	957.1	948.9	948.9	949.3	958.0	966.2	975.2
22.5°	1005.3	1008.6	990.5	964.5	952.6	953.4	956.7	965.4	975.7	988.0
25°	1032.9	1035.4	1013.1	978.5	965.0	967.4	970.3	974.4	984.3	998.7
27.5°	1077.4	1079.4	1050.2	1003.3	982.7	986.8	990.9	988.0	992.5	1004.9
30°	1140.0	1141.2	1104.2	1042.0	1012.7	1014.8	1015.6	1003.7	995.0	1004.9
32.5°	1214.1	1213.7	1169.6	1088.9	1046.9	1044.9	1037.8	1014.4	994.2	1002.8
35°	1329.0	1324.5	1267.7	1154.8	1085.6	1072.9	1056.4	1026.3	998.3	1000.8
37.5°	1519.3	1505.3	1426.6	1262.7	1143.3	1110.7	1086.4	1045.7	1007.4	1000.0
40°	1733.9	1716.2	1629.7	1410.6	1229.8	1177.5	1138.3	1073.3	1022.2	1003.7
42.5°	1988.4	1963.3	1870.2	1584.8	1339.3	1263.5	1204.6	1108.3	1044.0	1015.6
45°	2301.0	2267.6	2135.8	1781.2	1477.3	1376.4	1297.7	1161.4	1077.4	1038.7
47.5°	2616.9	2625.1	2437.7	2006.1	1642.9	1515.6	1414.3	1241.3	1126.0	1075.7
50°	2952.5	2958.3	2737.9	2255.3	1830.7	1672.9	1545.2	1330.7	1193.5	1128.5
52.5°	3214.5	3215.3	3010.6	2516.0	2026.3	1845.9	1686.5	1432.8	1271.8	1198.5
55°	3378.4	3376.3	3201.7	2762.7	2251.1	2027.5	1843.0	1548.9	1367.3	1280.8
57.5°	3497.4	3491.2	3333.5	2974.8	2490.8	2242.1	2020.1	1680.7	1480.2	1378.9
60°	3542.7	3539.0	3422.8	3158.0	2742.9	2479.3	2224.4	1828.2	1608.3	1494.6
62.5°	3560.0	3567.0	3510.6	3335.5	3012.6	2742.1	2448.8	2004.5	1752.4	1625.6
65°	3620.9	3633.7	3622.2	3567.8	3317.4	3049.7	2746.6	2214.1	1909.7	1766.0
67.5°	3741.6	3754.4	3759.3	3845.8	3689.7	3433.1	3118.1	2475.2	2093.8	1911.8
70°	3738.7	3735.0	3822.3	4067.0	4155.9	3964.0	3618.9	2796.4	2313.3	2032.9
72.5°	3403.1	3373.4	3579.8	4064.5	4543.9	4518.4	4230.5	3210.7	2502.8	2047.7
75°	2553.0	2474.0	2838.4	3663.0	4608.5	4833.0	4619.3	3467.7	2457.9	1809.2
77.5°	1091.8	1012.3	1441.9	2711.6	4124.6	4517.9	4262.6	3025.4	1962.0	1196.4
80°	285.8	285.4	435.7	1229.4	2805.1	3336.4	2927.0	1953.8	1121.0	427.5
82.5°	118.2	115.3	160.2	478.2	1370.6	1872.2	1527.9	871.5	404.8	115.7
85°	44.1	43.7	77.8	165.1	483.5	772.2	558.9	222.8	100.9	56.4
87.5°	12.4	11.9	16.9	57.2	117.8	178.7	95.5	36.7	28.4	22.2
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°
887.9	0°	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9
889.6	2.5°	890.8	892.9	896.6	899.5	903.2	907.3	913.1	916.8	920.5	922.9
891.6	5°	894.5	899.1	908.5	918.0	929.1	939.4	951.4	960.0	967.0	969.1
899.1	7.5°	902.8	910.2	926.2	942.3	960.0	976.9	994.2	1009.0	1021.0	1025.5
912.2	10°	917.2	927.1	949.7	972.4	995.8	1021.8	1044.0	1065.4	1082.3	1089.3
927.9	12.5°	935.3	947.7	977.3	1008.6	1041.1	1077.0	1105.8	1132.2	1153.2	1162.6
949.7	15°	958.8	974.8	1012.7	1054.7	1102.5	1152.3	1189.0	1218.2	1241.7	1253.2
972.4	17.5°	984.3	1005.7	1053.5	1116.9	1185.3	1250.8	1293.6	1315.0	1339.3	1350.4
993.4	20°	1009.0	1035.4	1103.7	1196.0	1287.0	1356.6	1391.2	1397.0	1398.6	1399.9
1013.1	22.5°	1034.6	1070.0	1166.8	1295.7	1393.3	1441.5	1446.4	1421.7	1387.1	1371.0
1032.5	25°	1062.6	1109.5	1249.1	1405.6	1484.7	1490.5	1452.6	1392.4	1327.0	1296.9
1048.1	27.5°	1089.7	1155.2	1348.0	1510.6	1550.6	1499.9	1418.4	1333.1	1254.1	1222.4
1059.3	30°	1116.9	1207.5	1457.1	1602.5	1580.7	1476.5	1364.4	1269.3	1189.8	1156.5
1069.1	32.5°	1144.5	1268.5	1582.7	1668.8	1575.3	1426.6	1297.3	1197.6	1127.6	1092.6
1077.8	35°	1175.8	1343.4	1701.7	1705.0	1539.5	1353.3	1208.8	1112.0	1051.0	1023.0
1088.1	37.5°	1216.6	1438.6	1806.8	1714.1	1476.9	1245.8	1098.8	1010.7	960.4	947.7
1103.3	40°	1267.2	1553.1	1887.1	1699.7	1384.2	1115.3	978.5	908.1	879.7	882.6
1123.9	42.5°	1333.1	1681.2	1943.5	1662.6	1255.3	980.6	873.1	841.8	855.4	866.9
1154.8	45°	1418.8	1814.2	1978.5	1599.6	1109.5	866.5	810.9	818.3	828.6	829.9
1204.6	47.5°	1528.4	1948.9	2001.6	1504.5	960.8	786.2	771.4	773.0	771.0	762.3
1279.2	50°	1665.1	2079.8	2022.2	1378.4	834.4	736.0	716.2	710.4	682.0	654.0
1378.4	52.5°	1820.8	2200.1	2030.8	1221.9	736.0	694.0	661.8	625.6	572.5	563.8
1503.2	55°	1993.7	2311.3	2008.6	1029.6	653.2	640.0	591.4	547.8	542.0	534.6
1667.6	57.5°	2200.5	2431.1	1963.3	815.0	568.3	577.0	529.6	534.6	524.3	512.7
1878.8	60°	2426.6	2555.1	1883.8	619.4	480.6	498.3	513.6	513.2	510.3	500.8
2101.6	62.5°	2630.0	2636.6	1727.3	474.4	403.6	437.4	479.0	478.6	476.1	470.7
2334.3	65°	2751.1	2624.3	1466.2	373.5	340.2	387.1	432.0	435.3	435.7	435.3
2509.4	67.5°	2729.7	2479.7	1107.9	297.4	287.9	336.1	385.5	390.0	393.3	394.1
2531.6	70°	2487.5	2162.2	722.4	237.2	241.3	291.2	341.4	345.9	348.8	352.1
2196.8	72.5°	1939.0	1589.7	413.5	191.9	200.6	252.5	297.8	303.1	304.8	310.9
1528.8	75°	1181.6	934.9	223.2	151.1	164.7	215.8	254.5	260.7	263.6	271.0
750.8	77.5°	561.8	404.8	127.3	117.8	132.6	176.3	215.0	222.0	214.2	218.3
207.2	80°	189.9	150.3	80.3	89.8	101.3	137.6	172.2	179.2	162.7	161.9
68.8	82.5°	66.3	61.0	51.1	59.7	65.5	98.4	130.1	139.2	121.1	120.7
30.9	85°	25.9	24.7	28.4	32.5	39.1	60.5	85.7	90.2	74.5	60.1
9.1	87.5°	5.4	5.8	7.0	7.4	11.9	21.0	30.9	37.9	30.1	25.5
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>
887.9
921.3
969.9
1025.9
1089.7
1162.6
1252.4
1350.0
1403.2
1375.6
1301.4
1226.1
1160.2
1097.2
1029.2
956.7
892.5
877.6
838.1
768.9
657.7
566.7
535.8
510.7
497.5
468.7
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395.0
353.8
313.4
<i>271.8</i>
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160.2
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59.3
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