

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: P939682

Luminaire Tested: **GALN-SB2B-927-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939682
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-927-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 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: 6795 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

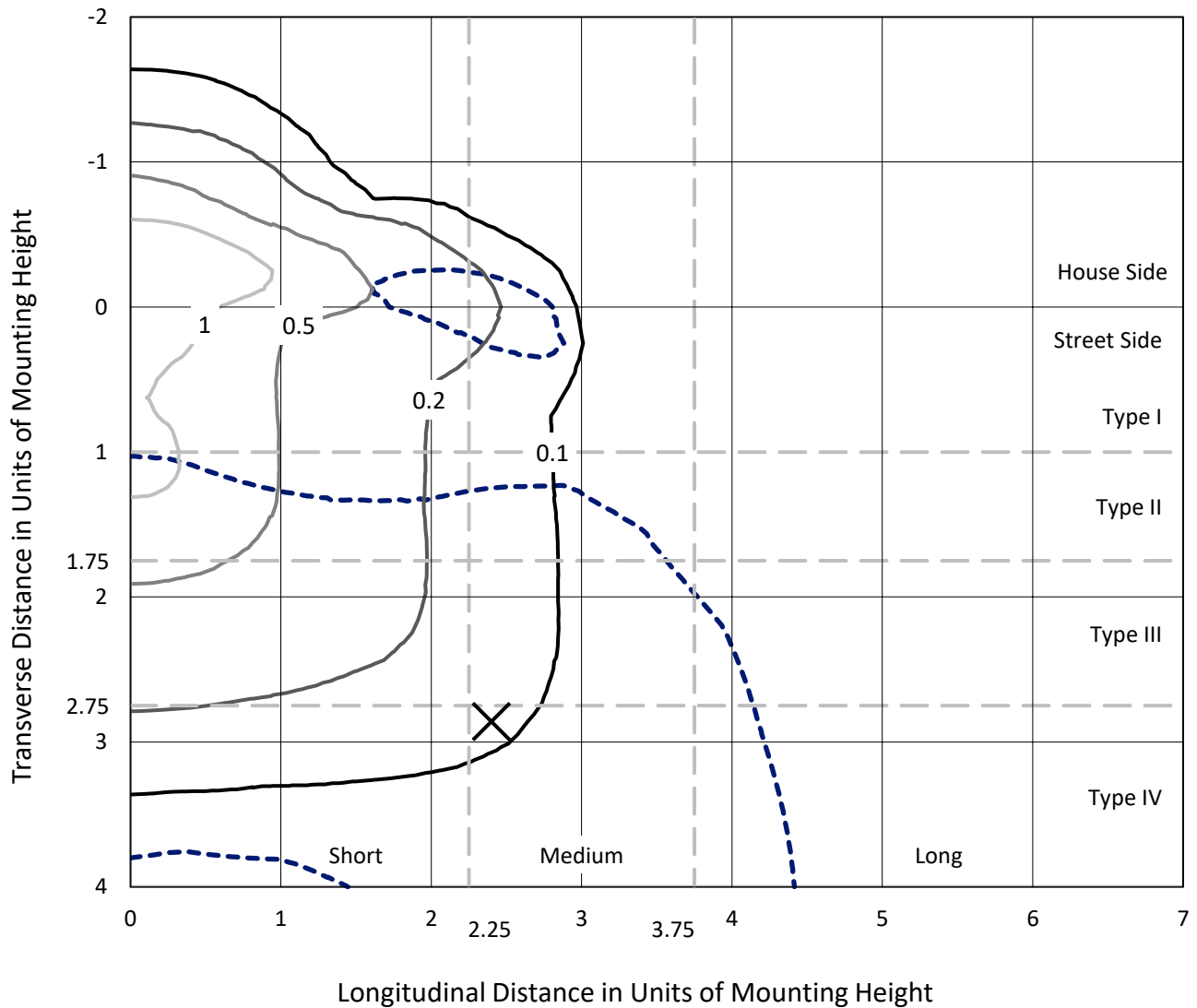
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

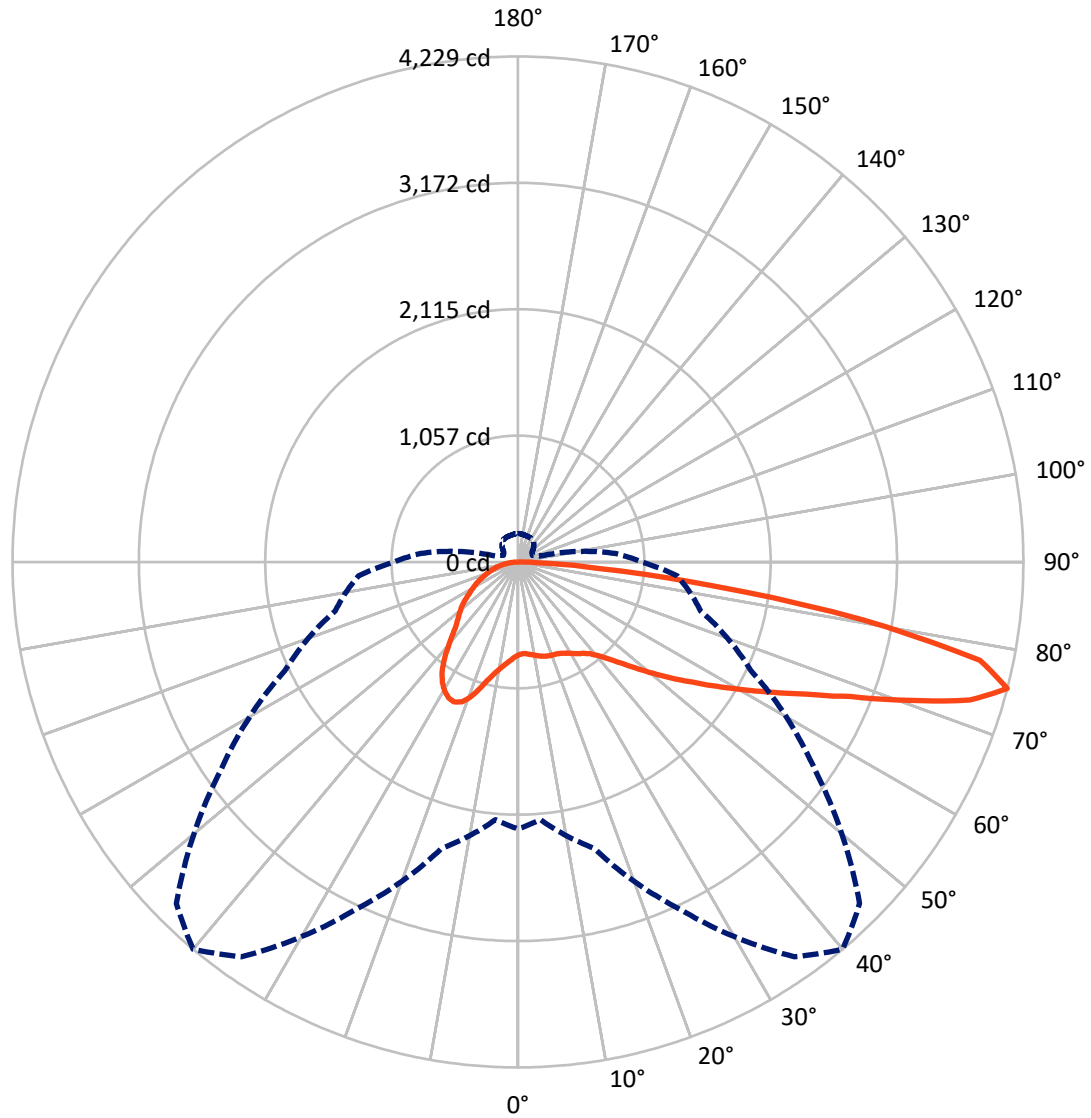
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	2105.3	0.0	2105.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	4689.7	0.0	4689.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	6795.0	0.0	6795.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	1.1
10°-20°	260.4	3.8
20°-30°	475.5	7.0
30°-40°	674.4	9.9
40°-50°	910.6	13.4
50°-60°	1225.0	18.0
60°-70°	1554.8	22.9
70°-80°	1411.1	20.8
80°-90°	205.7	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°	6795.0	100.0
0°-180°	6795.0	100.0

Coefficient of Utilization



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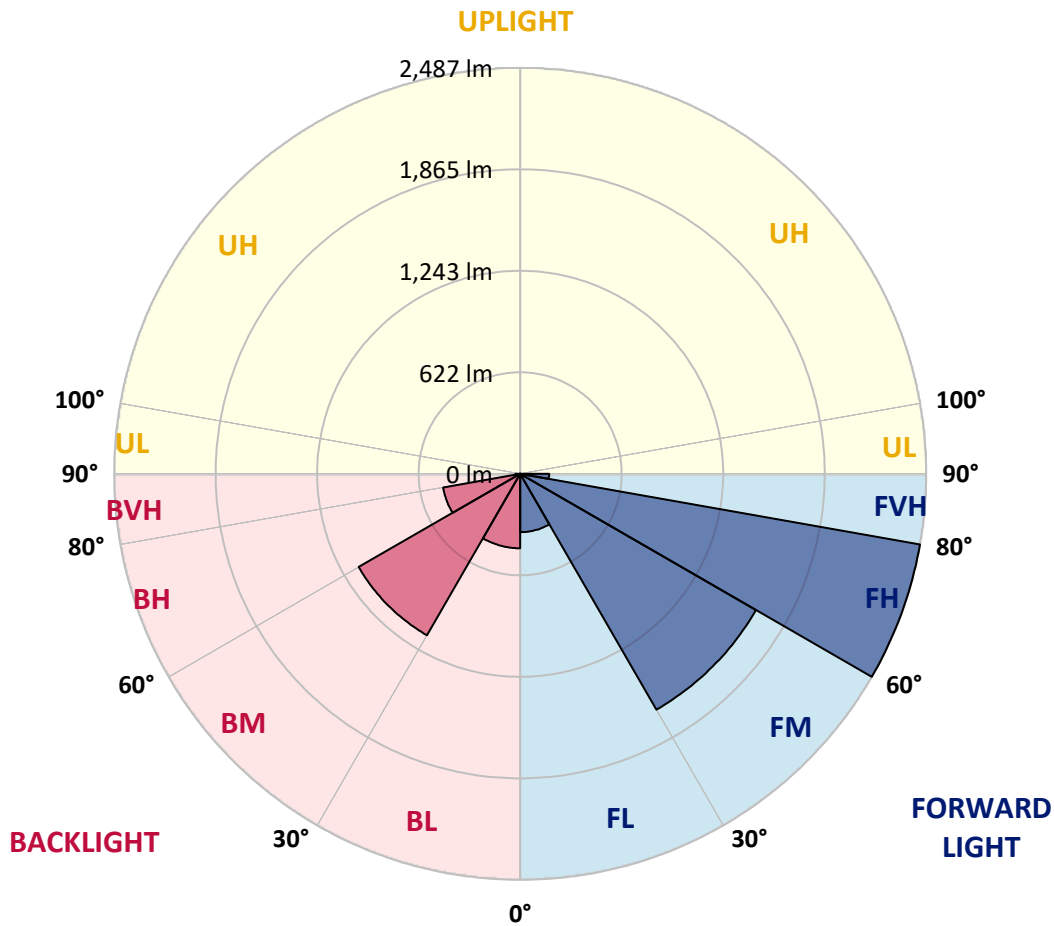
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.4	5.3			
FM (30°-60°)	1668.0	24.5			
FH (60°-80°)	2486.9	36.6			G2/5000
FVH (80°-90°)	177.4	2.6			G2/225
BL (0°-30°)	456.0	6.7	B1/500		
BM (30°-60°)	1141.9	16.8	B2/2500		
BH (60°-80°)	479.0	7.0	B1/500		G1/500
BVH (80°-90°)	28.3	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°	777.0	777.0	777.0	777.0	777.0	777.0	777.0	777.0	777.0	777.0
2.5°	765.1	769.4	768.4	766.9	766.9	767.3	766.9	769.4	772.0	774.5
5°	773.1	777.4	775.2	773.4	772.0	771.6	770.5	770.2	771.6	774.9
7.5°	788.6	792.9	789.6	786.4	783.5	782.1	780.6	778.5	777.4	779.2
10°	805.8	810.2	806.2	800.4	795.8	794.0	792.5	790.4	788.9	790.0
12.5°	823.1	827.5	822.1	814.1	808.0	806.9	805.1	804.4	804.0	803.7
15°	839.4	843.0	836.1	826.8	820.3	818.5	816.7	817.7	819.5	821.7
17.5°	852.0	855.6	845.5	833.2	827.1	826.4	825.3	828.9	834.0	839.4
20°	863.5	867.1	854.1	837.6	830.4	830.4	830.7	838.3	845.5	853.4
22.5°	879.7	882.6	866.8	844.1	833.6	834.3	837.2	844.8	853.8	864.6
25°	903.9	906.0	886.6	856.3	844.4	846.6	849.1	852.7	861.4	874.0
27.5°	942.8	944.6	919.0	877.9	859.9	863.5	867.1	864.6	868.6	879.4
30°	997.6	998.7	966.2	911.8	886.2	888.0	888.7	878.3	870.7	879.4
32.5°	1062.5	1062.1	1023.5	952.9	916.1	914.3	908.2	887.7	870.0	877.6
35°	1163.0	1159.0	1109.3	1010.6	950.0	938.8	924.4	898.1	873.6	875.8
37.5°	1329.5	1317.3	1248.4	1105.0	1000.5	972.0	950.7	915.0	881.5	875.0
40°	1517.3	1501.8	1426.1	1234.4	1076.1	1030.4	996.1	939.2	894.5	878.3
42.5°	1740.0	1718.0	1636.6	1386.8	1172.0	1105.7	1054.2	969.8	913.6	888.7
45°	2013.5	1984.3	1869.0	1558.7	1292.7	1204.4	1135.6	1016.3	942.8	908.9
47.5°	2290.0	2297.2	2133.2	1755.5	1437.6	1326.3	1237.6	1086.2	985.3	941.4
50°	2583.7	2588.7	2395.9	1973.5	1602.0	1463.9	1352.2	1164.4	1044.4	987.5
52.5°	2812.9	2813.6	2634.5	2201.7	1773.2	1615.3	1475.8	1253.8	1112.9	1048.8
55°	2956.3	2954.5	2801.7	2417.5	1969.9	1774.2	1612.8	1355.5	1196.5	1120.8
57.5°	3060.5	3055.1	2917.1	2603.2	2179.7	1962.0	1767.8	1470.8	1295.3	1206.6
60°	3100.1	3096.9	2995.3	2763.5	2400.2	2169.6	1946.5	1599.8	1407.4	1307.9
62.5°	3115.3	3121.4	3072.0	2918.9	2636.3	2399.5	2142.9	1754.1	1533.5	1422.5
65°	3168.6	3179.8	3169.7	3122.1	2903.0	2668.7	2403.5	1937.5	1671.2	1545.4
67.5°	3274.2	3285.4	3289.7	3365.4	3228.8	3004.3	2728.6	2166.0	1832.3	1673.0
70°	3271.7	3268.4	3344.9	3558.9	3636.8	3468.8	3166.8	2447.1	2024.4	1778.9
72.5°	2978.0	2952.0	3132.6	3556.8	3976.3	3953.9	3702.0	2809.7	2190.1	1791.9
75°	2234.1	2164.9	2483.9	3205.4	4032.8	4229.3	4042.2	3034.5	2150.9	1583.2
77.5°	955.4	885.9	1261.8	2372.9	3609.4	3953.6	3730.1	2647.5	1716.9	1047.0
80°	250.1	249.8	381.3	1075.8	2454.7	2919.6	2561.3	1709.7	981.0	374.1
82.5°	103.4	100.9	140.2	418.4	1199.4	1638.4	1337.1	762.6	354.3	101.3
85°	38.6	38.2	68.1	144.5	423.1	675.7	489.1	195.0	88.3	49.4
87.5°	10.8	10.5	14.8	50.1	103.1	156.4	83.6	32.1	24.9	19.5
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°
777.0	0°	777.0	777.0	777.0	777.0	777.0	777.0	777.0	777.0	777.0	777.0
778.5	2.5°	779.5	781.3	784.6	787.1	790.4	794.0	799.0	802.2	805.5	807.7
780.3	5°	782.8	786.7	795.0	803.3	813.1	822.1	832.5	840.1	846.2	848.0
786.7	7.5°	790.0	796.5	810.5	824.6	840.1	854.9	870.0	883.0	893.4	897.4
798.3	10°	802.6	811.3	831.1	850.9	871.4	894.1	913.6	932.3	947.1	953.3
812.0	12.5°	818.5	829.3	855.2	882.6	911.1	942.4	967.7	990.7	1009.1	1017.4
831.1	15°	839.0	853.1	886.2	923.0	964.8	1008.4	1040.5	1066.1	1086.6	1096.7
850.9	17.5°	861.4	880.1	921.9	977.4	1037.2	1094.5	1132.0	1150.7	1172.0	1181.7
869.3	20°	883.0	906.0	965.9	1046.6	1126.2	1187.1	1217.4	1222.5	1223.9	1225.0
886.6	22.5°	905.3	936.3	1021.0	1133.8	1219.2	1261.4	1265.7	1244.1	1213.8	1199.8
903.5	25°	929.8	970.9	1093.1	1230.0	1299.2	1304.3	1271.1	1218.5	1161.2	1134.9
917.2	27.5°	953.6	1010.9	1179.6	1321.9	1356.9	1312.6	1241.2	1166.6	1097.4	1069.7
926.9	30°	977.4	1056.7	1275.1	1402.3	1383.2	1292.0	1194.0	1110.7	1041.2	1012.0
935.6	32.5°	1001.5	1110.0	1385.0	1460.3	1378.5	1248.4	1135.3	1048.0	986.8	956.1
943.2	35°	1028.9	1175.6	1489.2	1492.0	1347.2	1184.3	1057.8	973.1	919.7	895.2
952.2	37.5°	1064.6	1258.9	1581.1	1500.0	1292.4	1090.2	961.5	884.4	840.4	829.3
965.5	40°	1108.9	1359.1	1651.3	1487.4	1211.3	976.0	856.3	794.7	769.8	772.3
983.5	42.5°	1166.6	1471.1	1700.7	1454.9	1098.5	858.1	764.0	736.7	748.5	758.6
1010.6	45°	1241.6	1587.6	1731.4	1399.8	970.9	758.3	709.6	716.1	725.1	726.2
1054.2	47.5°	1337.4	1705.4	1751.5	1316.5	840.8	688.0	675.0	676.5	674.7	667.1
1119.4	50°	1457.1	1820.0	1769.6	1206.3	730.2	644.0	626.7	621.7	596.8	572.3
1206.3	52.5°	1593.3	1925.2	1777.1	1069.3	644.0	607.3	579.2	547.4	501.0	493.4
1315.5	55°	1744.7	2022.6	1757.7	901.0	571.6	560.1	517.5	479.3	474.3	467.8
1459.3	57.5°	1925.6	2127.4	1718.0	713.2	497.3	504.9	463.5	467.8	458.8	448.7
1644.1	60°	2123.5	2235.9	1648.5	542.0	420.6	436.1	449.4	449.1	446.5	438.2
1839.1	62.5°	2301.5	2307.3	1511.5	415.2	353.2	382.7	419.1	418.8	416.6	411.9
2042.7	65°	2407.5	2296.5	1283.0	326.9	297.7	338.8	378.1	380.9	381.3	380.9
2195.9	67.5°	2388.7	2170.0	969.5	260.2	251.9	294.1	337.3	341.3	344.2	344.9
2215.4	70°	2176.8	1892.1	632.1	207.6	211.2	254.8	298.8	302.7	305.3	308.1
1922.4	72.5°	1696.8	1391.1	361.8	167.9	175.5	220.9	260.6	265.3	266.7	272.1
1337.8	75°	1034.0	818.1	195.3	132.3	144.2	188.8	222.7	228.1	230.7	237.1
657.0	77.5°	491.6	354.3	111.4	103.1	116.0	154.3	188.1	194.3	187.4	191.0
181.3	80°	166.1	131.5	70.3	78.6	88.7	120.4	150.6	156.8	142.4	141.6
60.2	82.5°	58.0	53.3	44.7	52.3	57.3	86.1	113.9	121.8	106.0	105.6
27.0	85°	22.7	21.6	24.9	28.5	34.2	53.0	75.0	78.9	65.2	52.6
7.9	87.5°	4.7	5.0	6.1	6.5	10.5	18.4	27.0	33.2	26.3	22.3
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

180°
777.0
806.2
848.7
897.8
953.6
1017.4
1096.0
1181.4
1227.9
1203.7
1138.9
1072.9
1015.2
960.1
900.6
837.2
781.0
768.0
733.4
672.9
575.6
495.9
468.9
446.9
435.4
410.1
380.9
345.6
309.6
274.3
237.9
188.1
140.2
100.6
51.9
20.5
0.0

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