

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: P946885

Luminaire Tested: **GALN-SB2B-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7037 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

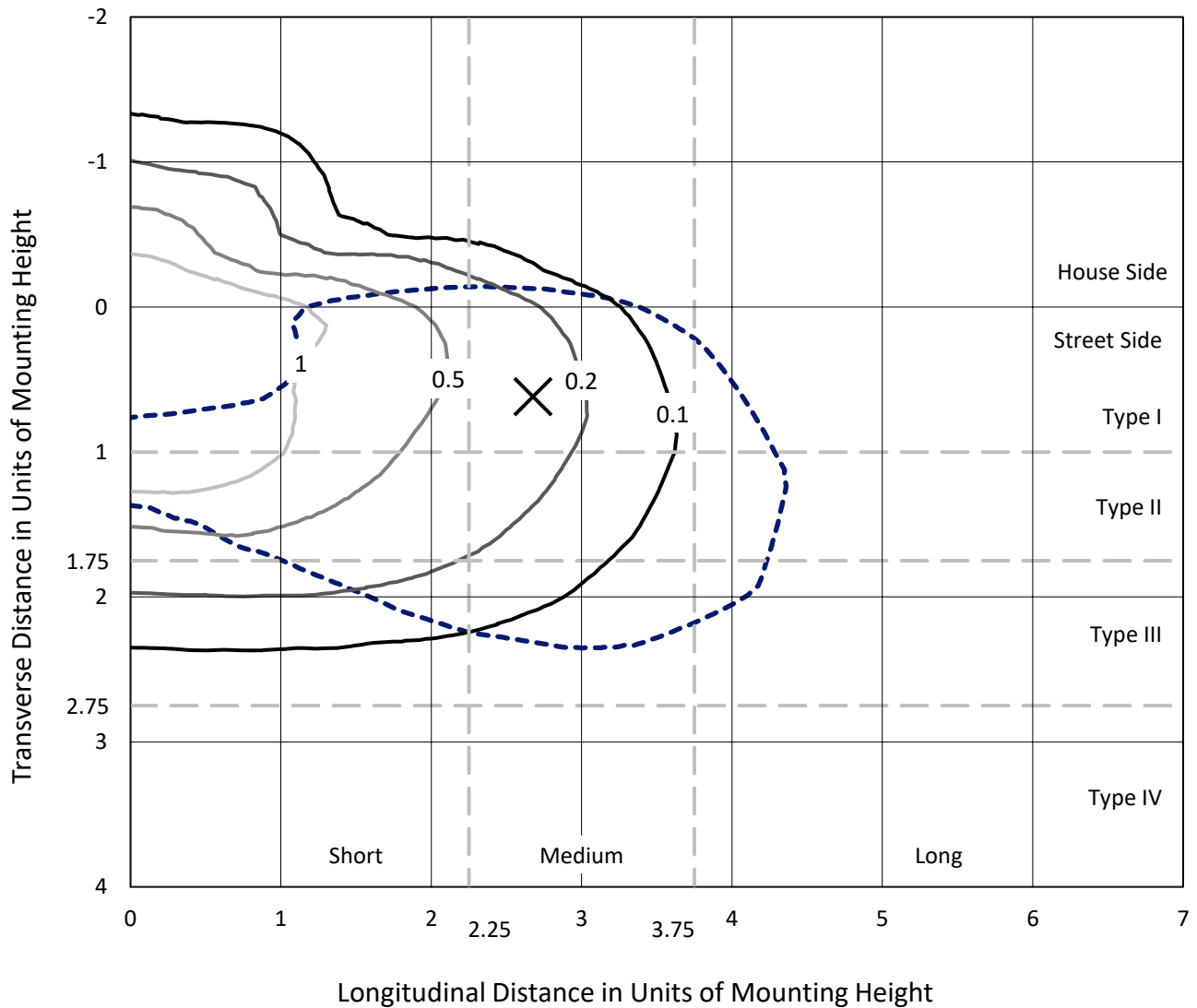
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

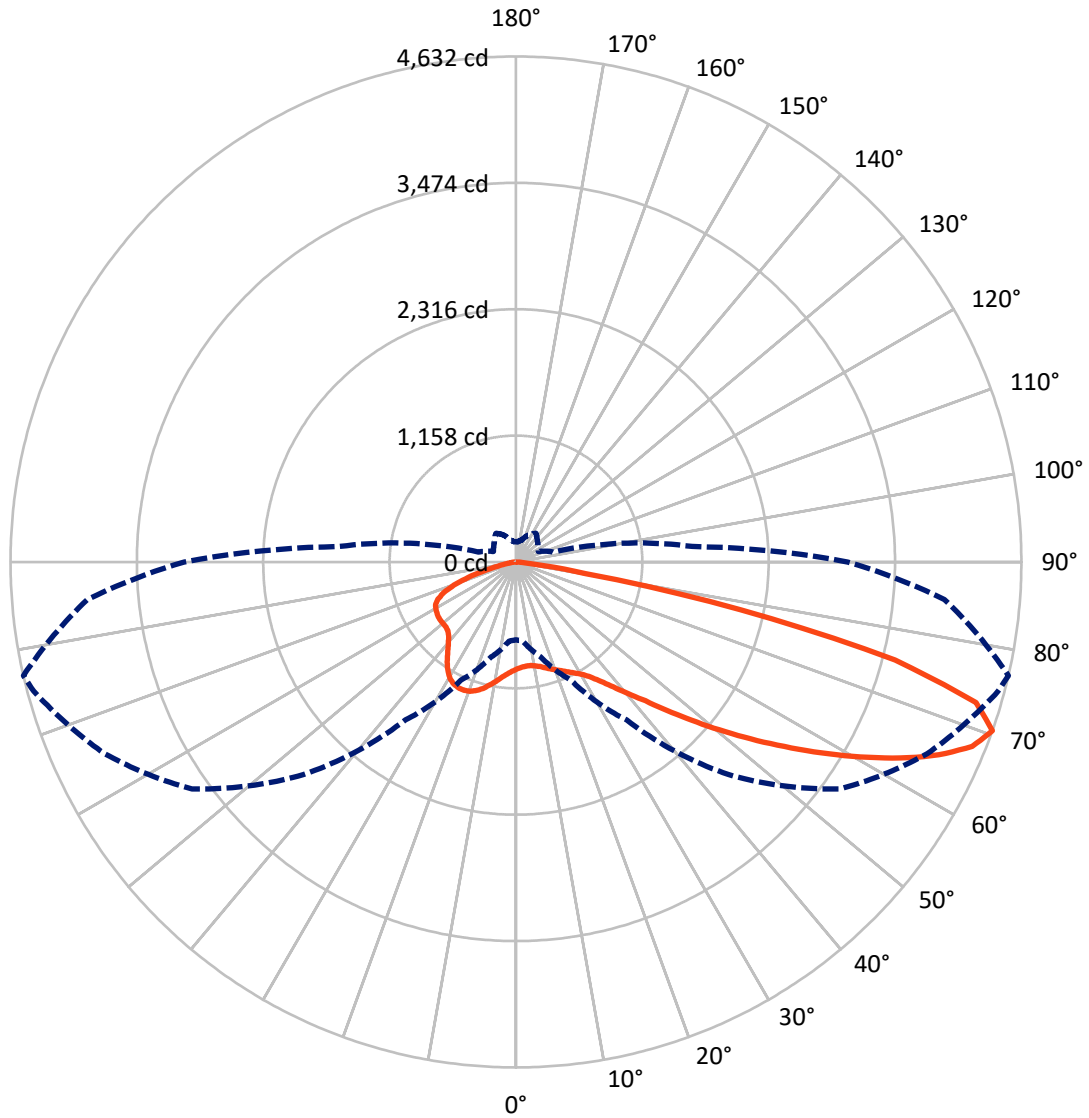
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1541.0	0.0	1541.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5496.0	0.0	5496.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	7037.0	0.0	7037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	1.3
10°-20°	270.2	3.8
20°-30°	462.1	6.6
30°-40°	743.1	10.6
40°-50°	1160.2	16.5
50°-60°	1549.8	22.0
60°-70°	1651.9	23.5
70°-80°	1016.9	14.5
80°-90°	89.1	1.3
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°	7037.0	100.0
0°-180°	7037.0	100.0

Coefficient of Utilization



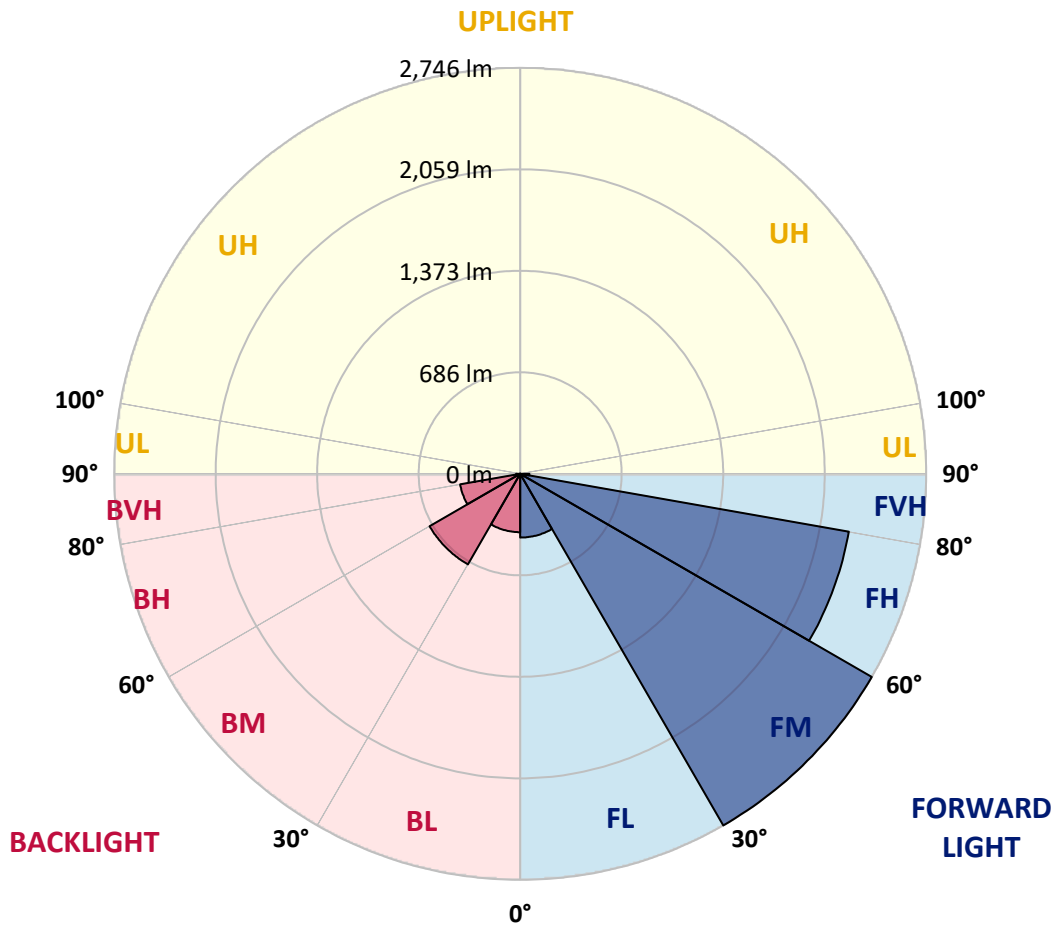
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.1	6.1			
FM (30°-60°)	2745.7	39.0			
FH (60°-80°)	2256.9	32.1			G2/5000
FVH (80°-90°)	62.3	0.9			G1/100
BL (0°-30°)	394.9	5.6	B1/500		
BM (30°-60°)	707.5	10.1	B1/1000		
BH (60°-80°)	411.8	5.9	B1/500		G1/500
BVH (80°-90°)	26.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7
2.5°	905.0	904.6	909.3	910.7	919.4	925.5	937.0	949.3	965.1	966.9
5°	852.7	852.7	858.1	863.9	875.0	887.3	905.0	926.2	953.6	957.9
7.5°	808.4	811.3	815.9	827.1	840.1	857.7	884.8	915.1	951.1	957.9
10°	772.7	775.9	781.7	790.7	810.2	834.7	870.0	908.9	957.2	968.0
12.5°	761.5	764.8	768.0	774.9	792.9	821.7	863.9	911.8	972.0	982.8
15°	787.5	791.4	788.9	787.1	796.5	822.8	866.8	922.3	990.4	1005.9
17.5°	847.3	848.7	843.0	826.0	824.6	838.6	880.5	936.7	1013.4	1030.4
20°	943.9	941.4	929.5	896.0	876.8	874.0	903.9	958.3	1037.2	1055.2
22.5°	1075.1	1072.2	1048.4	995.4	952.9	924.8	937.8	986.4	1063.9	1084.1
25°	1238.7	1234.7	1199.8	1127.7	1061.7	992.2	983.9	1023.5	1096.7	1115.4
27.5°	1429.7	1426.5	1388.6	1293.5	1198.3	1084.4	1041.2	1067.1	1130.9	1152.2
30°	1635.1	1644.5	1577.5	1475.1	1354.7	1204.8	1118.3	1120.8	1175.3	1194.4
32.5°	1876.6	1892.8	1812.1	1682.3	1518.0	1335.6	1215.6	1195.8	1239.8	1255.6
35°	2115.9	2134.3	2067.2	1923.8	1734.6	1489.9	1317.3	1281.9	1325.5	1342.8
37.5°	2322.8	2347.3	2312.7	2188.0	1966.3	1675.9	1449.9	1383.2	1431.1	1452.8
40°	2486.0	2523.5	2521.0	2443.1	2239.5	1901.5	1618.2	1508.3	1562.3	1585.8
42.5°	2618.7	2651.1	2679.2	2675.2	2524.6	2157.7	1816.0	1670.8	1711.9	1738.9
45°	2710.2	2744.8	2805.3	2870.6	2798.9	2432.0	2042.7	1863.6	1901.1	1941.8
47.5°	2792.0	2831.3	2909.9	3013.3	3031.7	2707.3	2291.1	2088.1	2122.4	2164.6
50°	2799.2	2833.1	2954.9	3101.6	3197.1	2971.8	2557.7	2340.1	2372.1	2417.2
52.5°	2625.1	2678.5	2891.1	3099.1	3273.1	3193.1	2822.6	2602.1	2638.1	2692.2
55°	2037.7	2115.9	2704.1	3002.5	3246.1	3336.2	3074.6	2880.7	2926.8	2983.4
57.5°	1755.1	1789.4	2146.5	2826.6	3122.9	3373.3	3287.2	3162.1	3236.4	3298.4
60°	1577.5	1605.9	1817.1	2553.1	2960.7	3314.6	3451.5	3424.5	3552.8	3626.7
62.5°	1387.2	1414.2	1606.3	2131.8	2753.1	3216.9	3555.3	3666.7	3877.2	3957.9
65°	1198.3	1221.4	1405.6	1791.2	2489.3	3119.2	3609.0	3876.1	4177.4	4261.0
67.5°	987.9	1007.0	1181.0	1511.2	2168.5	2985.5	3635.7	4040.8	4438.7	4510.4
70°	712.9	727.6	907.5	1195.1	1766.0	2755.6	3624.9	4157.6	4574.2	4631.5
72.5°	337.0	350.3	561.5	775.9	1247.3	2308.0	3406.1	4064.9	4436.5	4408.0
75°	179.8	191.4	322.6	425.6	658.8	1582.1	2787.3	3501.6	3725.4	3587.0
77.5°	121.8	130.8	199.7	255.5	300.9	751.1	1791.5	2424.4	2332.5	2104.0
80°	96.6	106.0	163.6	173.0	145.6	271.4	740.3	1122.3	806.2	644.8
82.5°	74.2	84.7	137.7	125.4	79.3	111.4	215.5	355.0	206.5	157.1
85°	45.4	56.6	108.1	80.0	44.7	50.8	73.2	98.7	63.1	52.6
87.5°	23.1	32.4	54.8	29.2	20.2	11.9	19.5	19.5	16.6	14.4
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°
981.7	0°	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7
976.7	2.5°	985.3	992.5	1004.8	1016.3	1025.3	1034.0	1042.6	1047.3	1048.8	1054.5
982.1	5°	996.9	1010.2	1034.0	1056.3	1070.4	1079.0	1085.2	1088.8	1089.5	1091.3
996.9	7.5°	1018.1	1039.4	1072.5	1094.9	1105.3	1104.6	1102.1	1093.1	1089.5	1086.2
1018.5	10°	1048.0	1076.2	1116.9	1132.4	1125.9	1108.6	1086.2	1059.9	1047.7	1035.8
1048.0	12.5°	1085.2	1120.8	1160.8	1160.1	1128.0	1083.7	1031.8	991.5	965.9	947.5
1084.4	15°	1130.2	1171.3	1201.9	1177.4	1107.1	1027.5	951.5	898.8	875.8	855.6
1121.2	17.5°	1176.7	1220.7	1234.7	1172.0	1054.5	944.2	858.1	816.7	794.0	783.1
1160.8	20°	1222.1	1265.7	1254.2	1141.0	974.5	849.8	773.1	750.3	745.7	748.2
1199.4	22.5°	1270.0	1309.0	1258.2	1081.2	872.5	753.2	711.1	711.8	722.2	729.8
1239.8	25°	1319.1	1345.4	1247.7	994.7	763.0	682.2	671.8	683.3	703.9	718.6
1285.2	27.5°	1366.3	1377.8	1225.0	887.7	668.9	631.4	633.2	657.0	688.0	708.5
1340.3	30°	1419.6	1406.6	1181.4	767.3	603.7	587.8	602.9	630.7	661.7	680.1
1409.9	32.5°	1479.8	1431.5	1112.2	655.9	557.5	552.9	577.7	595.7	609.4	614.8
1502.1	35°	1554.8	1466.5	1023.5	577.7	516.1	527.3	551.0	542.0	536.6	533.8
1626.1	37.5°	1652.1	1513.7	919.7	526.9	482.6	508.9	518.6	490.5	469.2	458.8
1776.4	40°	1769.2	1582.9	819.9	487.6	461.3	493.0	476.1	442.2	415.2	400.4
1945.4	42.5°	1899.3	1655.3	735.9	458.1	449.4	480.1	444.7	404.4	360.8	356.1
2146.9	45°	2035.9	1729.9	678.6	435.4	443.7	468.9	426.7	361.5	330.5	349.6
2349.1	47.5°	2172.5	1798.4	644.0	418.4	440.8	456.3	410.9	337.7	315.7	343.5
2565.7	50°	2324.6	1859.7	628.5	406.2	437.5	451.2	387.1	331.6	300.2	318.6
2789.8	52.5°	2475.6	1907.2	617.0	393.9	432.8	447.3	375.5	324.4	281.5	282.6
3015.5	55°	2626.2	1938.2	604.4	377.7	422.4	438.6	374.5	316.4	267.4	262.4
3254.0	57.5°	2787.0	1955.9	588.9	359.7	404.4	416.6	373.4	310.3	263.1	254.8
3498.0	60°	2950.6	1981.8	568.7	337.7	380.2	390.3	370.9	308.1	260.6	246.5
3728.0	62.5°	3097.3	1990.8	544.6	316.8	349.2	364.4	365.4	306.3	253.7	229.6
3919.0	65°	3193.5	1951.9	502.4	293.0	315.7	337.7	355.0	300.2	241.5	217.3
4013.4	67.5°	3189.5	1840.9	436.4	262.4	283.3	308.1	339.9	289.8	226.7	202.2
3942.0	70°	3041.0	1621.8	352.8	226.7	247.6	276.4	320.4	274.3	209.0	185.6
3505.2	72.5°	2608.2	1269.3	256.2	184.9	206.1	243.6	295.2	255.5	191.0	170.8
2590.5	75°	1863.3	803.3	173.7	142.0	160.4	206.5	263.8	233.5	174.4	171.5
1297.4	77.5°	951.8	383.8	115.0	103.8	111.7	162.9	221.6	208.7	177.0	141.6
369.0	80°	309.6	141.6	72.4	70.6	74.2	108.5	171.5	171.2	134.1	96.2
89.4	82.5°	98.7	60.9	47.2	45.4	43.6	68.1	119.7	135.5	90.5	60.9
32.1	85°	39.3	36.4	27.8	25.6	18.4	32.1	62.7	90.1	67.4	44.0
8.3	87.5°	14.4	14.4	7.6	5.4	4.0	10.8	16.9	27.0	38.6	22.7
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°
981.7
1057.8
1094.2
1087.0
1032.2
943.2
853.4
786.4
747.1
731.6
722.6
713.6
684.4
617.7
536.6
461.3
401.5
360.8
359.7
356.4
332.3
290.1
266.0
255.9
247.6
229.6
217.3
203.3
187.8
169.7
161.8
126.1
85.1
60.5
45.0
22.3
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