

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: P939294

Luminaire Tested: **GALN-SB1D-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6464 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

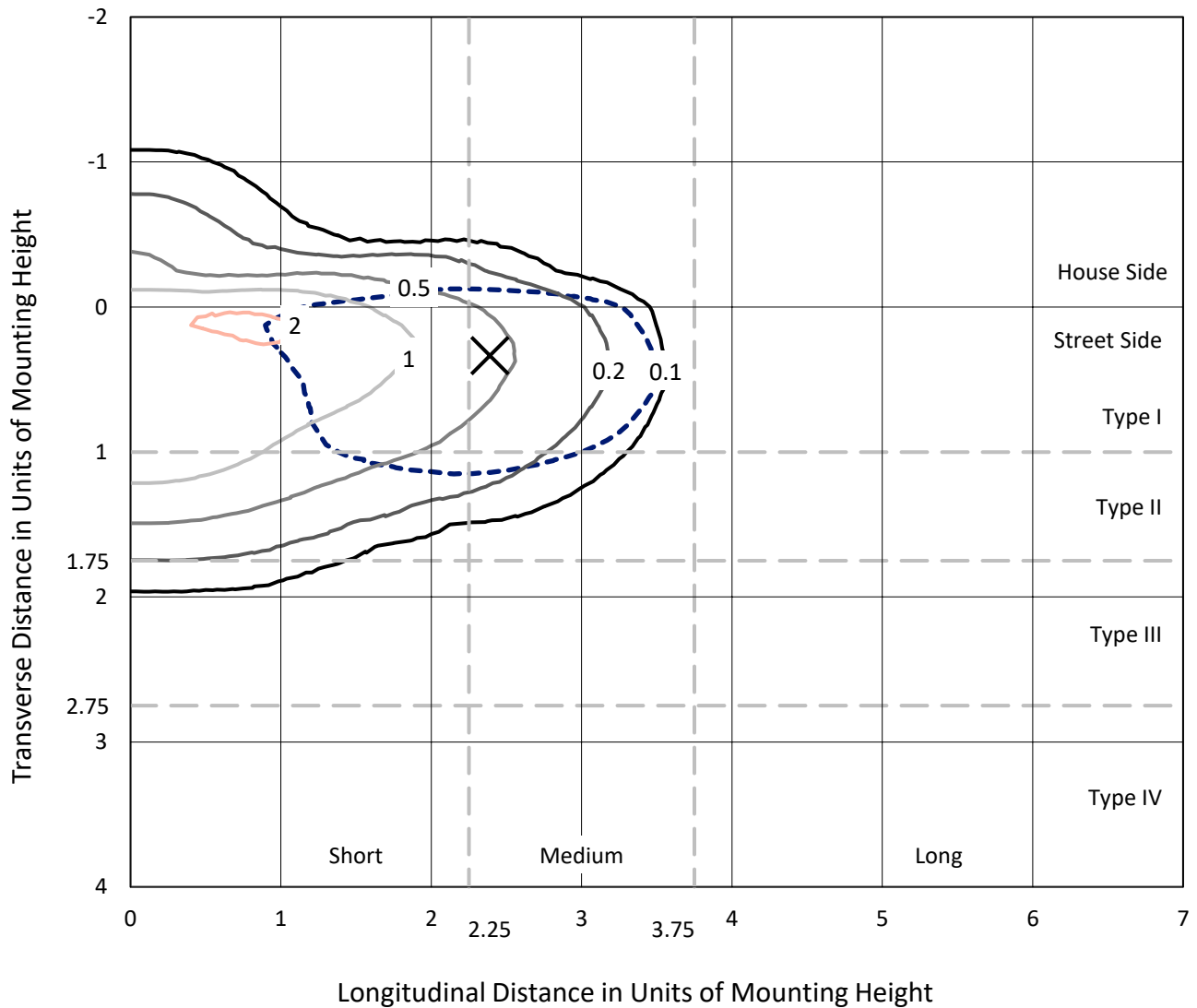
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

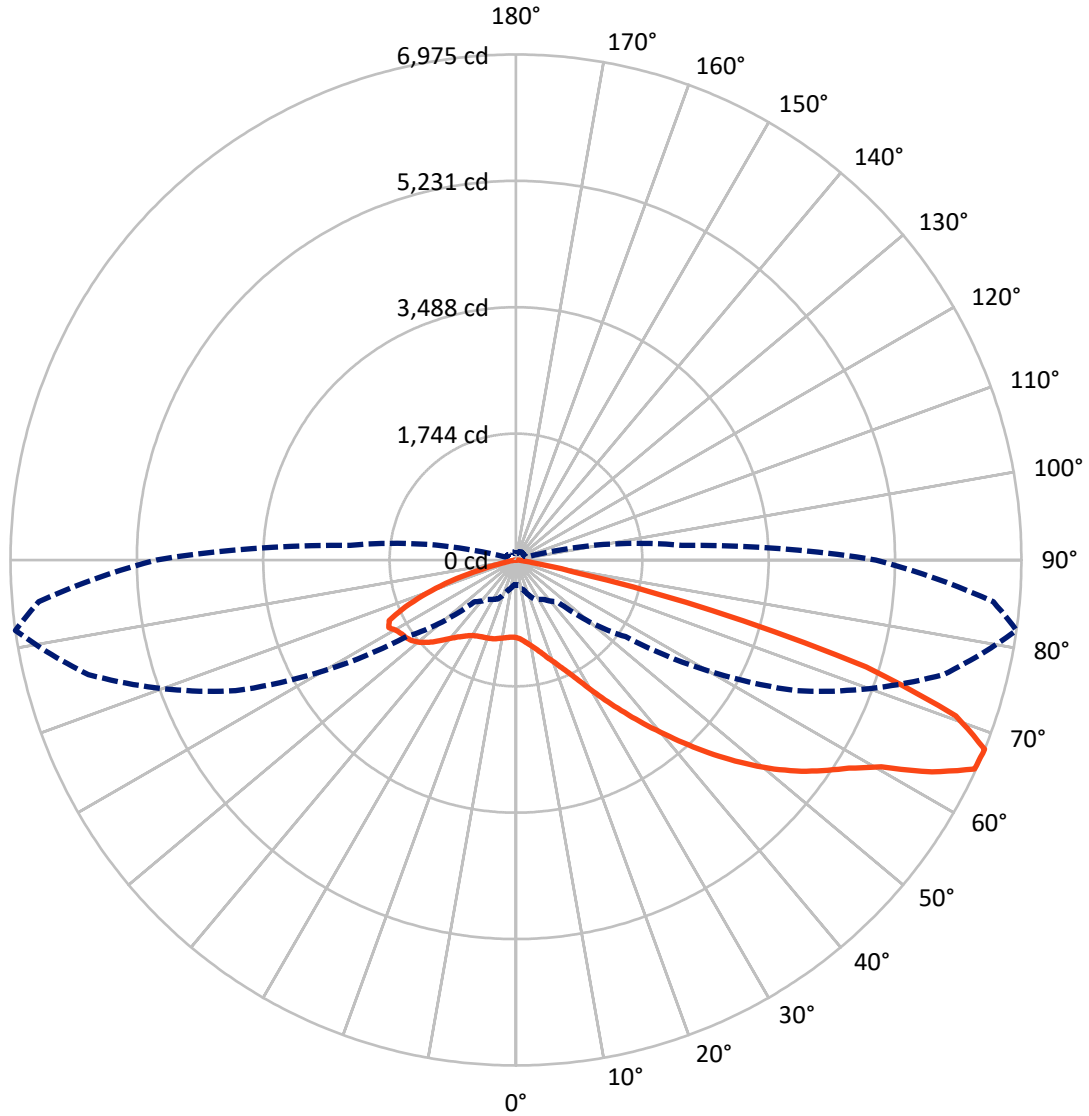
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1170.9	0.0	1170.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5293.1	0.0	5293.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	6464.0	0.0	6464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	1.5
10°-20°	247.9	3.8
20°-30°	397.1	6.1
30°-40°	702.2	10.9
40°-50°	1230.3	19.0
50°-60°	1640.9	25.4
60°-70°	1527.6	23.6
70°-80°	586.3	9.1
80°-90°	36.4	0.6
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°	6464.0	100.0
0°-180°	6464.0	100.0

Coefficient of Utilization



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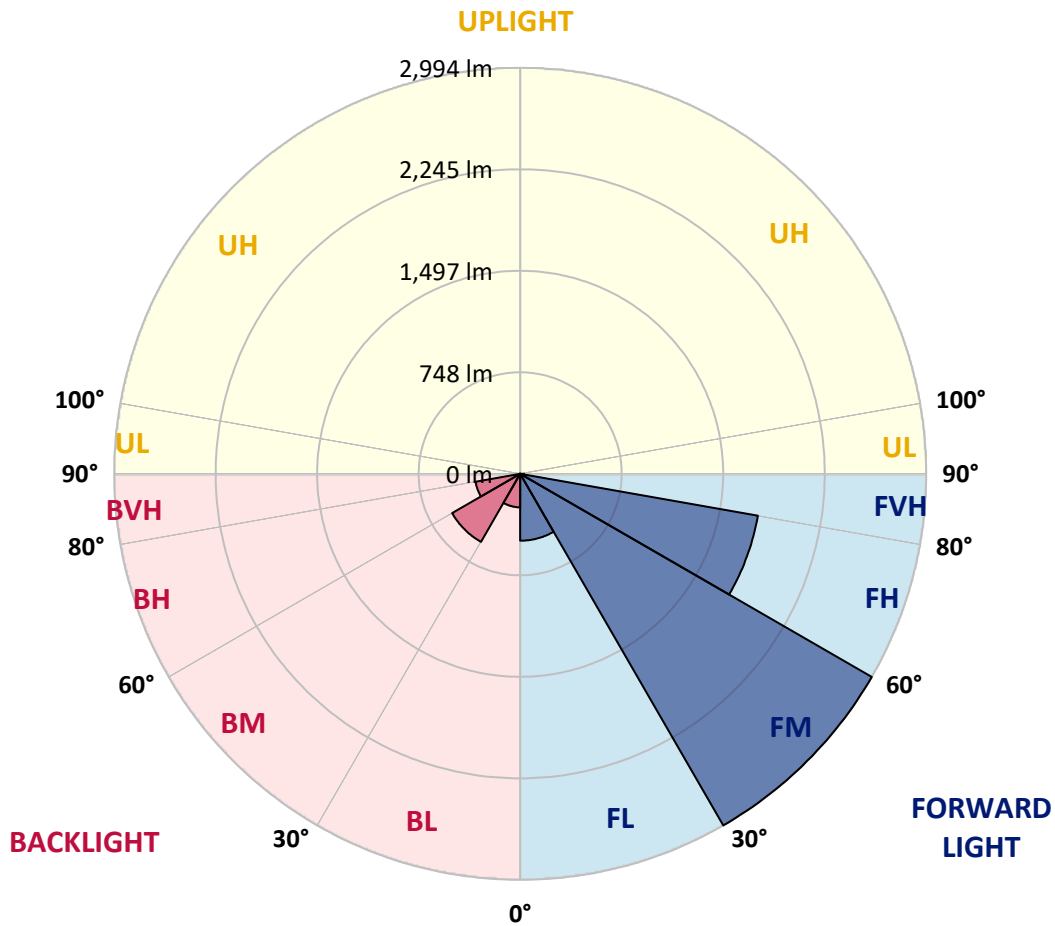
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	493.1	7.6			
FM (30°-60°)	2993.9	46.3			
FH (60°-80°)	1779.6	27.5			G1/1800
FVH (80°-90°)	26.5	0.4			G1/100
BL (0°-30°)	247.3	3.8	B1/500		
BM (30°-60°)	579.5	9.0	B1/1000		
BH (60°-80°)	334.2	5.2	B1/500		G1/500
BVH (80°-90°)	9.9	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1070.9	1070.9	1070.9	1070.9	1070.9	1070.9	1070.9	1070.9	1070.9	1070.9
2.5°	1131.8	1138.3	1134.6	1132.8	1129.5	1124.9	1121.1	1109.5	1097.4	1089.5
5°	1154.6	1161.2	1160.7	1162.5	1164.9	1166.3	1165.3	1152.3	1135.1	1121.6
7.5°	1135.1	1142.5	1148.6	1157.9	1174.2	1191.4	1199.8	1197.0	1179.3	1160.7
10°	1079.7	1087.6	1102.0	1123.9	1158.4	1195.6	1226.8	1241.2	1230.0	1209.6
12.5°	978.3	986.2	1014.6	1062.0	1119.7	1184.4	1244.0	1282.6	1285.4	1264.9
15°	864.2	872.1	902.4	962.0	1049.9	1153.7	1253.3	1326.4	1351.0	1333.3
17.5°	793.5	800.5	823.3	871.2	962.9	1092.3	1250.0	1372.9	1429.2	1415.3
20°	772.1	778.1	788.8	822.3	898.7	1028.5	1228.6	1416.7	1513.5	1505.5
22.5°	794.9	800.5	803.7	818.6	866.6	986.6	1201.6	1461.3	1611.2	1612.1
25°	847.5	853.1	849.3	858.6	879.6	973.6	1191.4	1513.9	1734.0	1744.3
27.5°	934.0	934.5	925.7	925.2	928.5	993.1	1202.1	1570.2	1889.0	1908.1
30°	1107.6	1100.7	1066.7	1029.9	1013.2	1051.8	1231.9	1636.8	2071.9	2105.9
32.5°	1375.2	1365.0	1302.6	1214.7	1126.2	1146.3	1285.4	1712.6	2271.1	2332.5
35°	1665.6	1662.8	1597.7	1466.9	1312.4	1280.8	1372.4	1812.2	2488.4	2586.2
37.5°	1935.6	1934.2	1896.9	1742.9	1554.9	1468.3	1512.1	1942.5	2721.1	2862.6
40°	2182.2	2186.4	2149.2	2011.4	1822.0	1708.9	1701.9	2103.6	2979.9	3163.7
42.5°	2395.4	2400.0	2362.3	2260.4	2085.9	1975.1	1935.1	2300.9	3232.6	3487.2
45°	2540.1	2569.0	2563.4	2481.9	2356.7	2241.8	2215.3	2548.5	3520.7	3830.2
47.5°	2581.1	2607.6	2649.5	2660.6	2584.3	2471.2	2502.9	2846.8	3812.0	4173.6
50°	2480.1	2504.7	2591.8	2707.6	2760.7	2725.8	2782.6	3166.5	4110.3	4516.2
52.5°	2280.9	2306.0	2415.8	2599.2	2815.6	2925.5	3063.2	3481.6	4399.3	4840.5
55°	1992.8	2019.3	2160.3	2367.9	2710.9	3007.8	3297.3	3796.2	4664.2	5132.3
57.5°	1600.9	1620.5	1767.1	2057.5	2447.5	2925.9	3470.0	4139.7	4913.6	5419.0
60°	1043.4	1060.6	1231.0	1554.9	2011.0	2652.3	3504.4	4522.7	5245.0	5791.8
62.5°	693.9	705.5	806.5	1044.3	1416.2	2126.8	3302.9	4828.4	5730.8	6440.6
65°	476.1	487.7	588.7	754.4	915.0	1406.9	2723.5	4787.9	6171.1	6955.7
67.5°	339.7	349.5	435.1	591.5	662.3	817.2	1846.2	4270.4	6107.8	6975.3
70°	243.4	249.0	319.7	460.7	526.4	491.0	1026.7	3266.1	5347.8	6441.0
72.5°	170.3	172.2	222.0	350.9	424.0	358.4	488.7	2177.6	4044.7	5055.5
75°	115.4	117.7	149.4	257.4	340.2	273.7	258.8	1167.7	2374.4	2798.4
77.5°	70.7	71.7	96.3	175.9	254.6	208.5	166.6	494.7	918.7	901.9
80°	40.0	40.0	61.4	109.4	173.6	134.5	116.8	210.4	290.9	255.5
82.5°	22.3	22.8	44.7	67.9	115.0	79.6	64.2	97.3	125.7	111.2
85°	9.3	10.2	27.5	32.1	54.9	39.6	26.1	41.0	46.5	41.4
87.5°	0.9	1.4	8.4	6.1	6.5	7.9	3.7	7.9	6.5	6.5
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°
1070.9	0°	1070.9	1070.9	1070.9	1070.9	1070.9	1070.9	1070.9	1070.9	1070.9	1070.9
1086.7	2.5°	1077.8	1070.9	1053.2	1032.7	1005.7	992.7	975.0	962.9	952.7	953.6
1113.7	5°	1098.8	1081.1	1041.5	992.2	930.8	887.0	840.5	808.4	782.3	776.7
1150.9	7.5°	1127.6	1099.7	1030.4	941.5	837.7	759.1	688.8	643.6	611.5	601.3
1196.1	10°	1164.9	1124.4	1015.9	877.7	728.3	628.3	552.9	517.5	495.6	488.2
1249.1	12.5°	1208.2	1152.8	996.9	800.0	615.7	519.4	471.4	453.8	446.8	444.4
1314.3	15°	1262.6	1188.1	968.0	707.9	520.3	452.8	432.3	430.0	431.0	430.0
1392.5	17.5°	1327.3	1226.8	921.0	612.9	456.1	418.9	411.4	413.3	415.6	415.1
1479.9	20°	1398.0	1264.9	861.0	528.7	412.3	394.7	390.5	392.3	394.2	393.3
1580.9	22.5°	1478.5	1305.9	794.4	463.1	383.0	372.3	367.7	368.1	368.1	366.3
1708.9	25°	1574.9	1351.0	724.6	416.5	360.7	352.3	346.7	344.9	342.1	336.5
1864.4	27.5°	1689.8	1399.0	657.6	383.9	343.0	335.1	328.6	323.9	316.9	307.6
2051.0	30°	1819.2	1457.1	600.8	363.5	329.0	321.1	313.7	306.7	296.5	284.8
2265.5	32.5°	1971.4	1519.5	559.4	350.0	316.5	308.1	299.2	290.9	279.7	268.1
2506.6	35°	2152.9	1594.9	535.2	340.7	306.7	295.5	285.8	276.4	268.1	257.8
2768.6	37.5°	2349.8	1674.9	527.8	336.0	300.2	283.0	271.8	265.3	264.3	258.3
3052.0	40°	2565.2	1769.9	533.3	333.2	293.2	270.9	258.8	257.4	259.7	249.0
3355.0	42.5°	2793.3	1882.5	542.6	330.0	283.4	258.8	247.1	247.1	245.3	230.4
3675.2	45°	3039.9	2012.4	552.0	322.1	271.8	246.7	237.8	234.6	226.6	212.2
3997.2	47.5°	3288.5	2144.5	558.9	307.6	257.8	236.4	228.5	221.1	209.4	196.4
4313.2	50°	3524.4	2263.2	551.5	286.2	242.0	226.6	218.3	208.0	195.5	186.6
4612.5	52.5°	3735.2	2366.1	519.8	261.1	225.2	216.4	209.0	198.3	188.0	178.7
4882.4	55°	3918.6	2449.4	464.0	237.3	210.4	207.6	200.1	186.6	172.7	164.7
5150.0	57.5°	4094.5	2512.6	394.2	217.8	196.9	197.8	186.6	174.5	161.5	153.1
5510.7	60°	4328.6	2597.4	323.4	199.7	182.4	185.2	173.1	164.3	148.0	137.3
6129.2	62.5°	4702.8	2729.1	256.9	177.3	165.7	166.6	161.5	150.8	131.2	118.7
6587.6	65°	4999.7	2680.7	202.4	153.1	146.6	148.0	148.0	136.4	115.4	101.0
6612.3	67.5°	4966.2	2295.3	161.5	129.4	128.4	129.4	132.6	122.9	102.4	90.8
6108.7	70°	4574.8	1825.7	129.4	107.5	111.7	109.4	118.7	112.2	92.1	80.5
4735.8	72.5°	3732.9	1315.2	98.7	88.9	85.6	89.4	107.0	101.0	76.8	63.8
2508.5	75°	2181.3	701.8	73.5	70.3	61.9	74.5	94.9	86.1	58.6	47.0
768.8	77.5°	710.2	244.8	54.0	51.7	46.1	60.0	81.0	72.6	47.9	37.2
225.2	80°	190.3	74.0	36.8	34.0	29.8	44.7	64.2	57.7	34.4	24.2
96.8	82.5°	76.3	31.2	21.4	19.1	16.3	30.7	50.7	46.5	25.6	15.4
30.3	85°	24.7	10.2	7.9	6.1	7.4	19.1	30.3	31.6	18.2	7.9
4.7	87.5°	3.3	1.4	1.4	1.9	1.4	3.3	9.3	8.8	5.1	0.9
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°
1070.9
944.3
764.2
591.0
482.6
443.1
429.6
414.2
392.8
365.3
335.5
306.7
283.9
268.5
256.9
257.8
249.4
230.4
211.8
195.9
185.2
177.8
163.8
152.2
135.9
117.7
99.6
88.9
79.1
62.4
45.6
35.8
23.7
15.4
6.1
0.0
0.0

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