

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: P946423

Luminaire Tested: **GALN-SB2A-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946423
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-SB2A-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8008 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

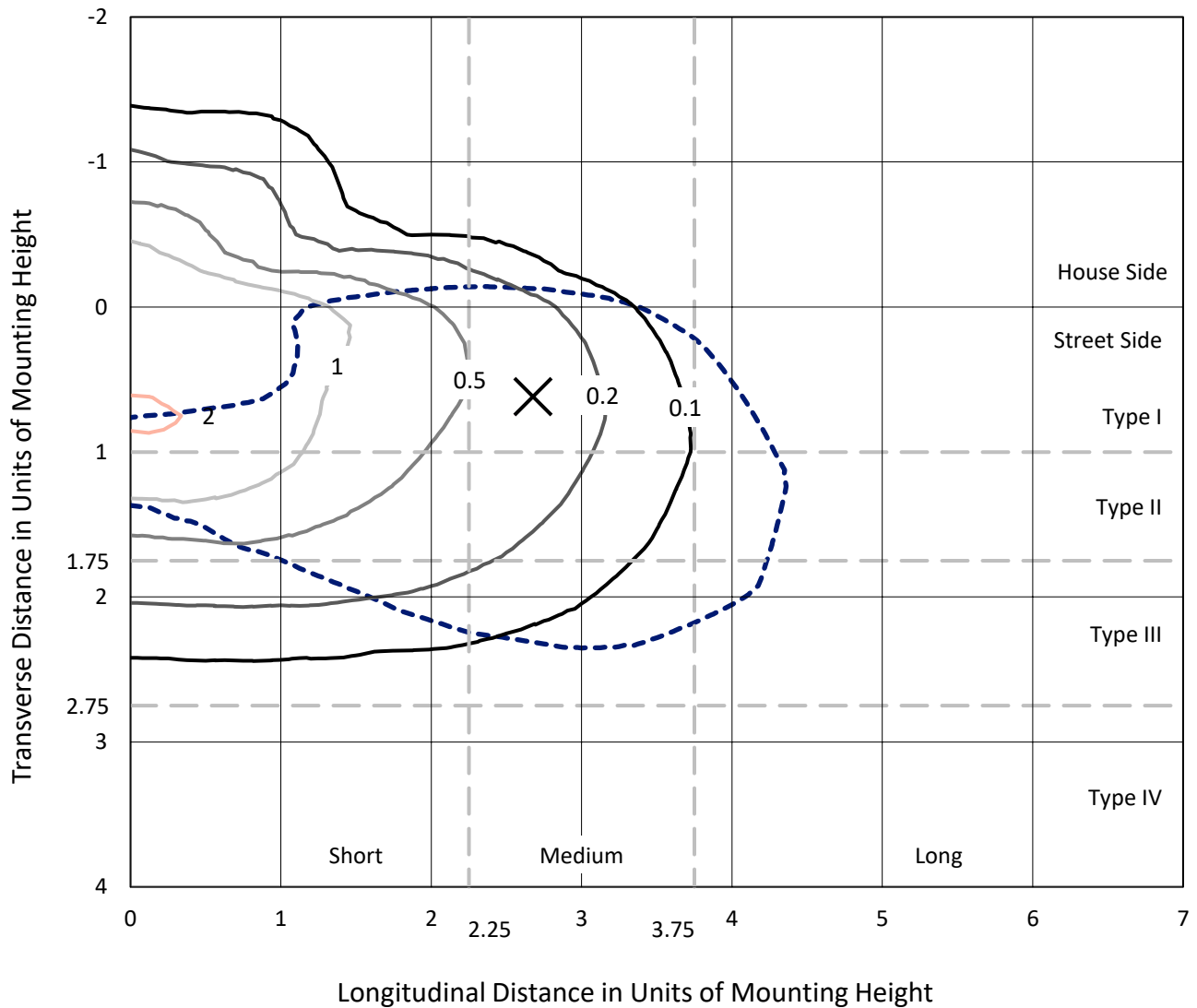
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

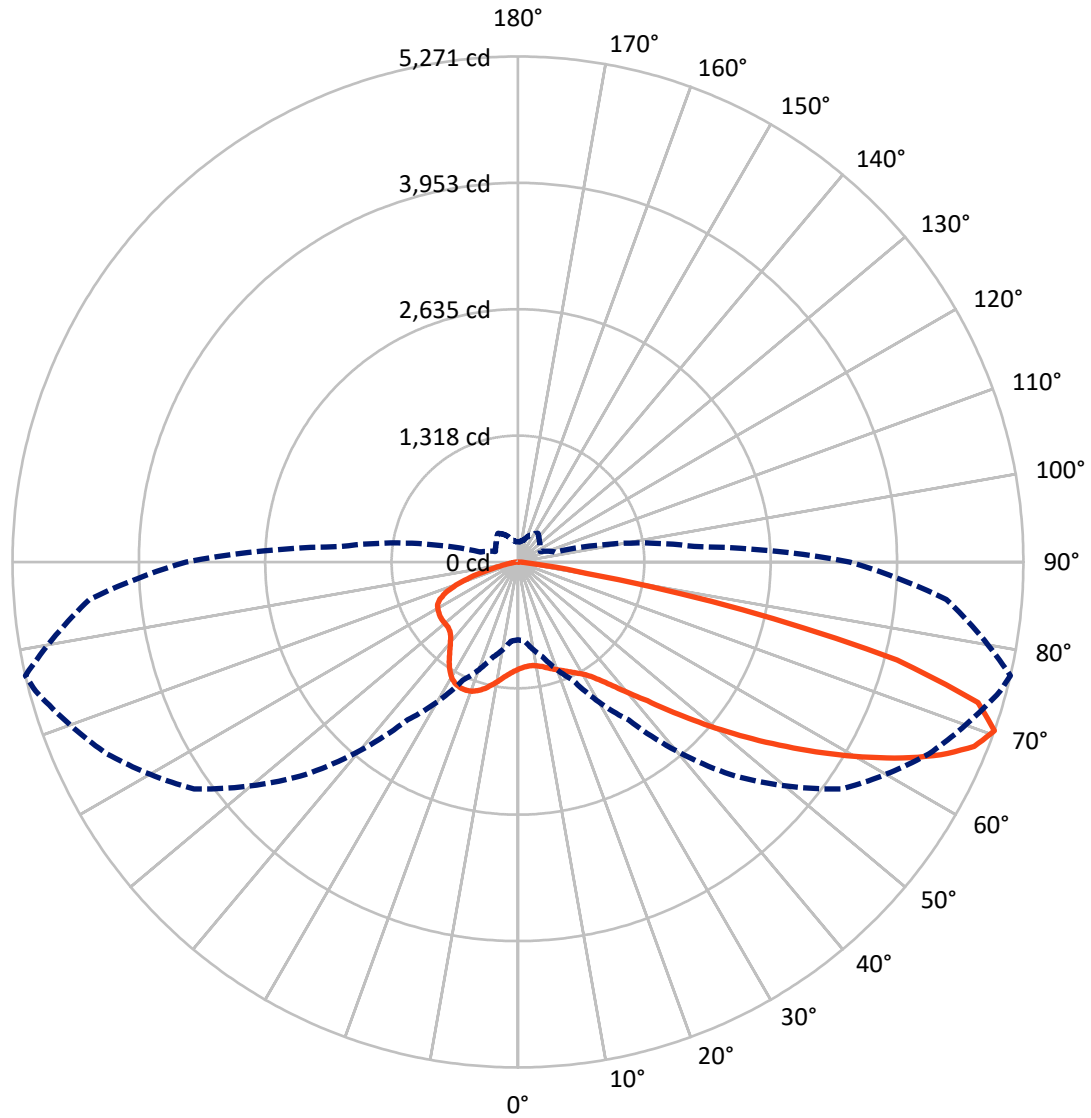
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	1753.6	0.0	1753.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6254.4	0.0	6254.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	8008.0	0.0	8008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	1.3
10°-20°	307.5	3.8
20°-30°	525.9	6.6
30°-40°	845.7	10.6
40°-50°	1320.3	16.5
50°-60°	1763.7	22.0
60°-70°	1879.8	23.5
70°-80°	1157.2	14.5
80°-90°	101.4	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°	8008.0	100.0
0°-180°	8008.0	100.0

Coefficient of Utilization



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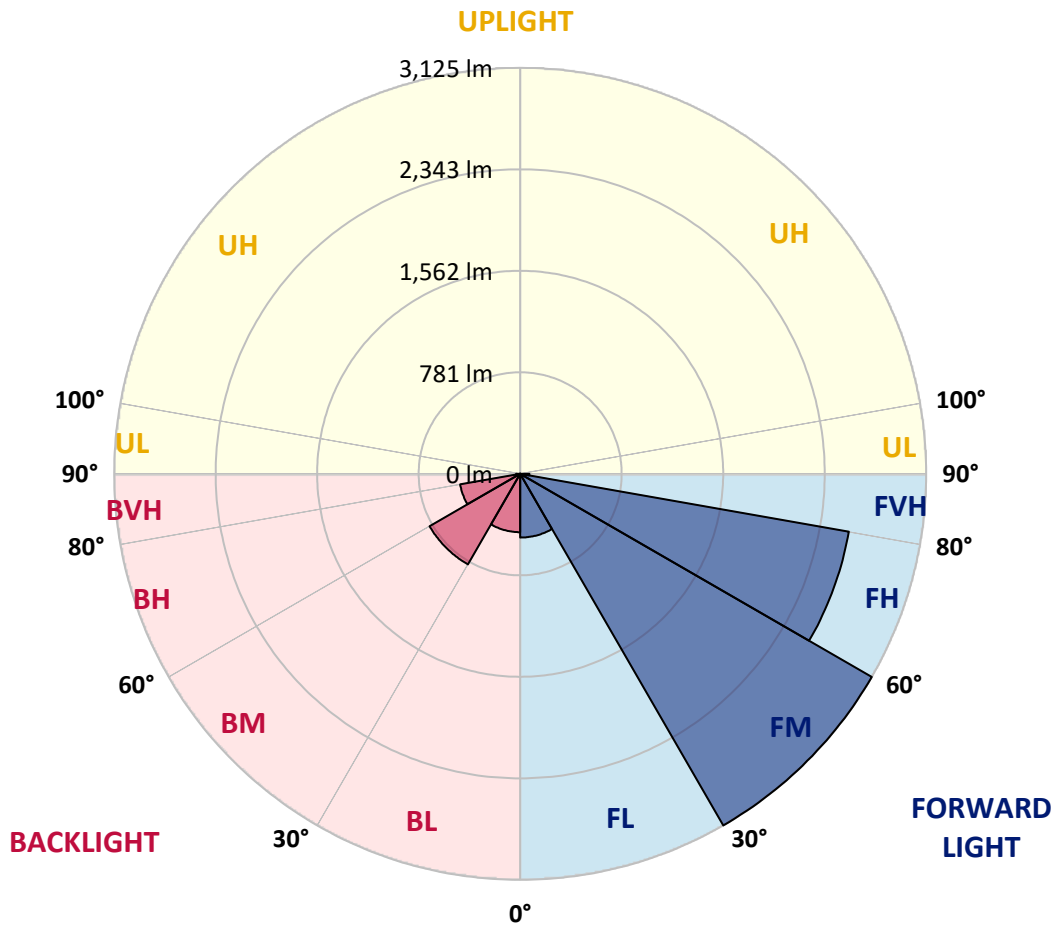
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.6	6.1			
FM (30°-60°)	3124.5	39.0			
FH (60°-80°)	2568.3	32.1			G2/5000
FVH (80°-90°)	70.9	0.9			G1/100
BL (0°-30°)	449.3	5.6	B1/500		
BM (30°-60°)	805.1	10.1	B1/1000		
BH (60°-80°)	468.7	5.9	B1/500		G1/500
BVH (80°-90°)	30.5	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°	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2
2.5°	1029.8	1029.4	1034.8	1036.4	1046.2	1053.2	1066.3	1080.3	1098.3	1100.4
5°	970.4	970.4	976.5	983.1	995.8	1009.7	1029.8	1054.0	1085.2	1090.1
7.5°	919.9	923.2	928.5	941.2	956.0	976.1	1006.9	1041.3	1082.3	1090.1
10°	879.3	883.0	889.6	899.8	922.0	949.9	990.0	1034.3	1089.3	1101.6
12.5°	866.6	870.3	874.0	881.8	902.3	935.1	983.1	1037.6	1106.1	1118.4
15°	896.1	900.6	897.8	895.7	906.4	936.3	986.4	1049.5	1127.0	1144.7
17.5°	964.2	965.9	959.3	940.0	938.4	954.4	1001.9	1065.9	1153.3	1172.6
20°	1074.1	1071.3	1057.7	1019.6	997.8	994.6	1028.6	1090.5	1180.3	1200.9
22.5°	1223.4	1220.1	1193.1	1132.8	1084.4	1052.4	1067.2	1122.5	1210.7	1233.7
25°	1409.6	1405.1	1365.3	1283.3	1208.2	1129.1	1119.6	1164.8	1248.0	1269.3
27.5°	1627.0	1623.3	1580.2	1471.9	1363.7	1234.1	1184.9	1214.4	1287.0	1311.2
30°	1860.8	1871.4	1795.1	1678.7	1541.7	1371.1	1272.6	1275.5	1337.4	1359.2
32.5°	2135.5	2154.0	2062.1	1914.5	1727.5	1519.9	1383.4	1360.8	1410.8	1428.9
35°	2407.9	2428.8	2352.5	2189.3	1973.9	1695.5	1499.0	1458.8	1508.5	1528.1
37.5°	2643.3	2671.2	2631.8	2489.9	2237.7	1907.1	1649.9	1574.1	1628.6	1653.2
40°	2829.1	2871.7	2868.8	2780.3	2548.5	2163.8	1841.5	1716.4	1777.9	1804.6
42.5°	2980.0	3016.9	3048.9	3044.4	2872.9	2455.4	2066.6	1901.4	1948.1	1978.9
45°	3084.2	3123.5	3192.4	3266.7	3185.1	2767.5	2324.6	2120.8	2163.4	2209.8
47.5°	3177.3	3222.0	3311.4	3429.1	3450.0	3080.9	2607.2	2376.3	2415.2	2463.2
50°	3185.5	3224.0	3362.6	3529.6	3638.2	3381.9	2910.7	2663.0	2699.5	2750.7
52.5°	2987.4	3048.1	3290.0	3526.7	3724.8	3633.7	3212.1	2961.1	3002.1	3063.7
55°	2318.9	2407.9	3077.2	3416.8	3694.0	3796.6	3498.8	3278.2	3330.7	3395.0
57.5°	1997.3	2036.3	2442.7	3216.6	3553.8	3838.8	3740.8	3598.5	3683.0	3753.5
60°	1795.1	1827.5	2067.9	2905.3	3369.2	3771.9	3927.8	3897.0	4043.0	4127.1
62.5°	1578.6	1609.3	1827.9	2425.9	3133.0	3660.8	4045.9	4172.6	4412.2	4504.0
65°	1363.7	1389.9	1599.5	2038.3	2832.8	3549.7	4107.0	4410.9	4753.8	4848.9
67.5°	1124.2	1145.9	1344.0	1719.7	2467.7	3397.5	4137.4	4598.4	5051.1	5132.8
70°	811.2	828.0	1032.7	1360.0	2009.6	3135.8	4125.1	4731.2	5205.3	5270.6
72.5°	383.5	398.6	639.0	883.0	1419.5	2626.5	3876.1	4625.8	5048.7	5016.3
75°	204.7	217.8	367.1	484.4	749.7	1800.5	3171.9	3984.8	4239.5	4082.0
77.5°	138.6	148.9	227.2	290.8	342.5	854.7	2038.7	2758.9	2654.3	2394.3
80°	109.9	120.6	186.2	196.9	165.7	308.8	842.4	1277.1	917.5	733.7
82.5°	84.5	96.4	156.7	142.7	90.2	126.7	245.3	404.0	235.0	178.8
85°	51.7	64.4	123.0	91.0	50.9	57.8	83.3	112.4	71.8	59.9
87.5°	26.2	36.9	62.3	33.2	23.0	13.5	22.1	22.1	18.9	16.4
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°
1117.2	0°	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2
1111.4	2.5°	1121.3	1129.5	1143.4	1156.6	1166.8	1176.7	1186.5	1191.8	1193.5	1200.0
1117.6	5°	1134.4	1149.6	1176.7	1202.1	1218.1	1227.9	1234.9	1239.0	1239.8	1241.9
1134.4	7.5°	1158.6	1182.8	1220.5	1246.0	1257.9	1257.0	1254.2	1243.9	1239.8	1236.1
1159.0	10°	1192.7	1224.6	1271.0	1288.6	1281.2	1261.6	1236.1	1206.2	1192.2	1178.7
1192.7	12.5°	1234.9	1275.5	1321.0	1320.2	1283.7	1233.3	1174.2	1128.3	1099.1	1078.2
1234.1	15°	1286.2	1332.9	1367.8	1339.9	1259.9	1169.3	1082.7	1022.9	996.6	973.6
1275.9	17.5°	1339.1	1389.1	1405.1	1333.7	1200.0	1074.5	976.5	929.4	903.5	891.2
1321.0	20°	1390.7	1440.4	1427.2	1298.5	1109.0	967.1	879.7	853.9	848.6	851.4
1364.9	22.5°	1445.3	1489.6	1431.8	1230.4	992.9	857.2	809.2	810.0	821.9	830.5
1410.8	25°	1501.1	1531.0	1419.9	1132.0	868.2	776.4	764.5	777.6	801.0	817.8
1462.5	27.5°	1554.8	1567.9	1394.0	1010.1	761.2	718.5	720.6	747.7	782.9	806.3
1525.3	30°	1615.5	1600.7	1344.4	873.2	687.0	668.9	686.1	717.7	753.0	773.9
1604.4	32.5°	1684.0	1629.0	1265.7	746.4	634.5	629.1	657.4	677.9	693.5	699.7
1709.4	35°	1769.3	1668.8	1164.8	657.4	587.3	600.0	627.1	616.8	610.7	607.4
1850.5	37.5°	1880.0	1722.5	1046.6	599.6	549.2	579.1	590.2	558.2	534.0	522.1
2021.5	40°	2013.3	1801.3	933.0	554.9	525.0	561.1	541.8	503.2	472.5	455.7
2213.9	42.5°	2161.4	1883.7	837.5	521.3	511.4	546.3	506.1	460.2	410.5	405.2
2443.1	45°	2316.8	1968.6	772.3	495.4	504.9	533.6	485.6	411.4	376.1	397.8
2673.2	47.5°	2472.3	2046.5	732.9	476.2	501.6	519.2	467.5	384.3	359.3	390.9
2919.7	50°	2645.3	2116.3	715.3	462.2	497.9	513.5	440.5	377.3	341.6	362.6
3174.8	52.5°	2817.2	2170.4	702.1	448.3	492.6	509.0	427.4	369.1	320.3	321.5
3431.5	55°	2988.6	2205.7	687.8	429.8	480.7	499.1	426.1	360.1	304.3	298.6
3703.0	57.5°	3171.5	2225.8	670.1	409.3	460.2	474.1	424.9	353.1	299.4	290.0
3980.7	60°	3357.7	2255.3	647.2	384.3	432.7	444.2	422.0	350.7	296.5	280.5
4242.4	62.5°	3524.6	2265.5	619.7	360.5	397.4	414.6	415.9	348.6	288.7	261.3
4459.7	65°	3634.1	2221.3	571.7	333.4	359.3	384.3	404.0	341.6	274.8	247.3
4567.2	67.5°	3629.6	2094.9	496.7	298.6	322.4	350.7	386.8	329.7	258.0	230.1
4486.0	70°	3460.7	1845.6	401.5	258.0	281.8	314.6	364.6	312.1	237.9	211.2
3988.9	72.5°	2968.1	1444.5	291.6	210.4	234.6	277.2	335.9	290.8	217.4	194.4
2948.0	75°	2120.4	914.2	197.7	161.6	182.5	235.0	300.2	265.8	198.5	195.2
1476.5	77.5°	1083.1	436.8	130.8	118.1	127.1	185.4	252.2	237.5	201.4	161.2
420.0	80°	352.3	161.2	82.4	80.4	84.5	123.4	195.2	194.8	152.6	109.5
101.7	82.5°	112.4	69.3	53.7	51.7	49.6	77.5	136.2	154.2	102.9	69.3
36.5	85°	44.7	41.4	31.6	29.1	20.9	36.5	71.4	102.5	76.7	50.0
9.4	87.5°	16.4	16.4	8.6	6.2	4.5	12.3	19.3	30.8	43.9	25.8
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>
1117.2
1203.7
1245.1
1236.9
1174.6
1073.3
971.2
894.9
850.2
832.6
822.3
812.1
778.8
703.0
610.7
525.0
456.9
410.5
409.3
405.6
378.1
330.2
302.7
291.2
281.8
261.3
247.3
231.3
213.7
193.2
184.1
143.5
96.8
68.9
51.3
25.4
0.0

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