

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: P948017

Luminaire Tested: **GALN-SB3A-940-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3A-940-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

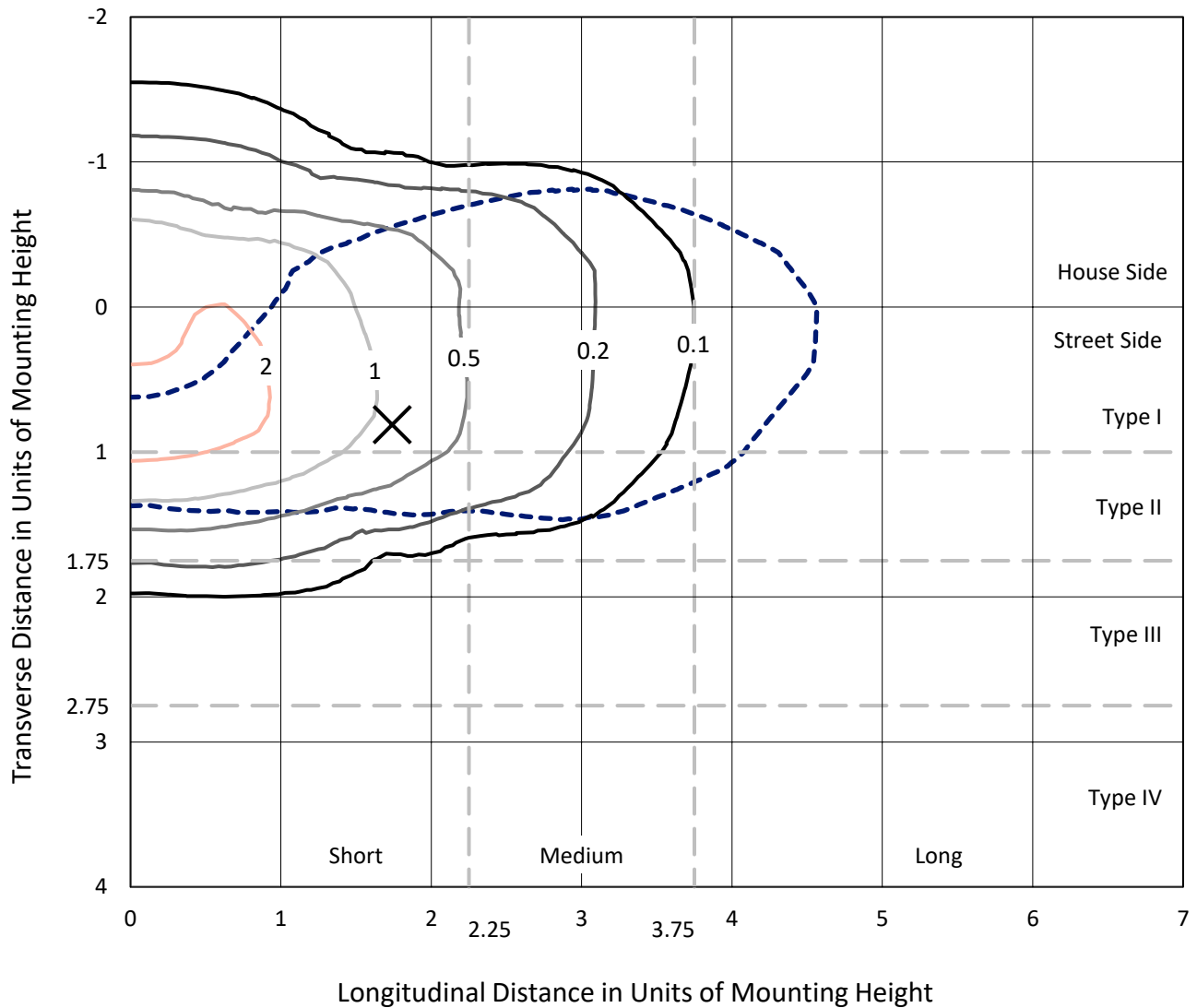
Lumens per Lamp: N/A  
Luminaire Lumens: 9884 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

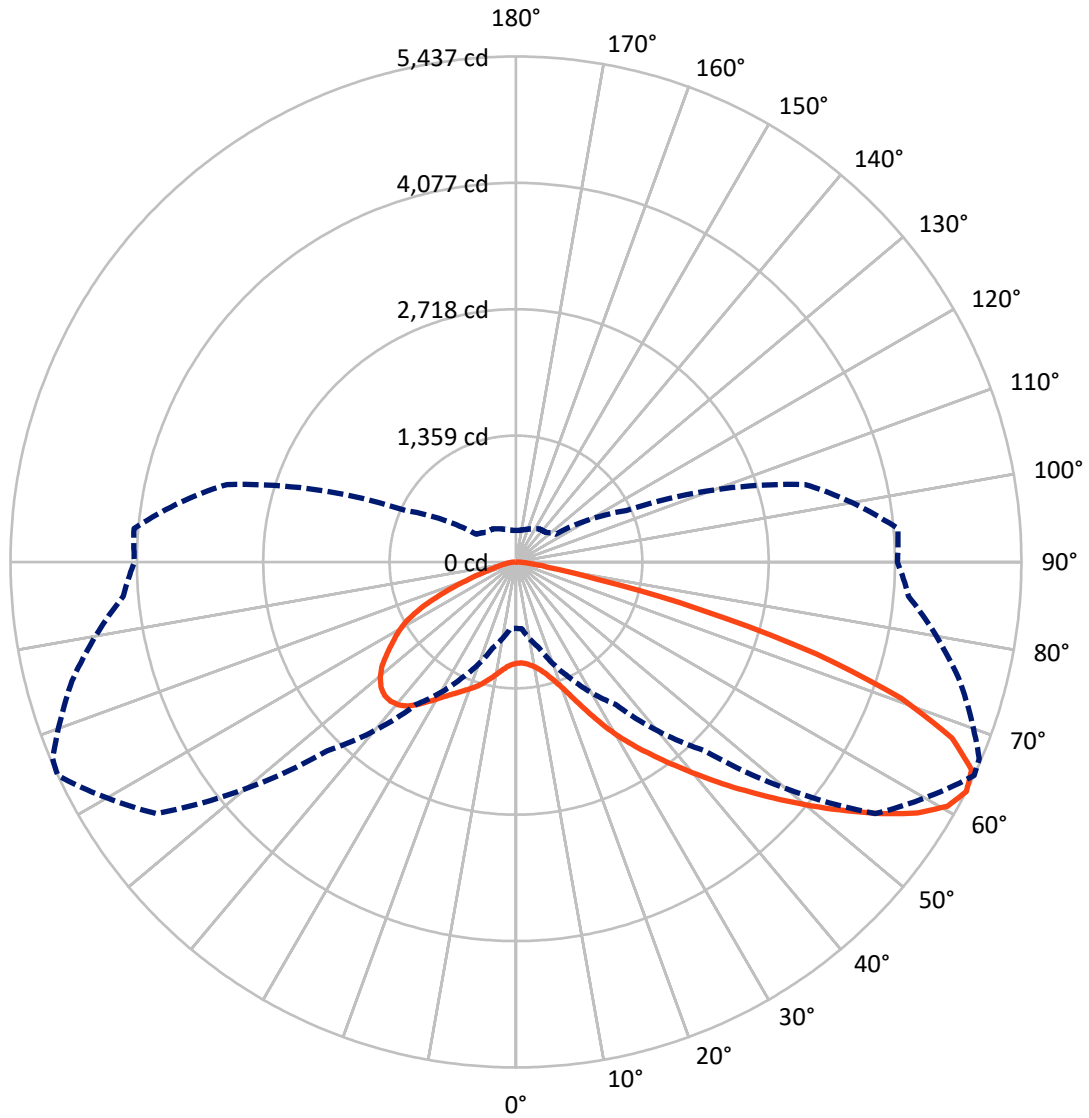
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3118.9	0.0	3118.9
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	6765.0	0.0	6765.0
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	9884.0	0.0	9884.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.6	1.1
10°-20°	368.2	3.7
20°-30°	746.6	7.6
30°-40°	1292.0	13.1
40°-50°	1955.3	19.8
50°-60°	2292.4	23.2
60°-70°	1921.9	19.4
70°-80°	1061.1	10.7
80°-90°	137.8	1.4
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°	9884.0	100.0
0°-180°	9884.0	100.0

**Coefficient of Utilization**



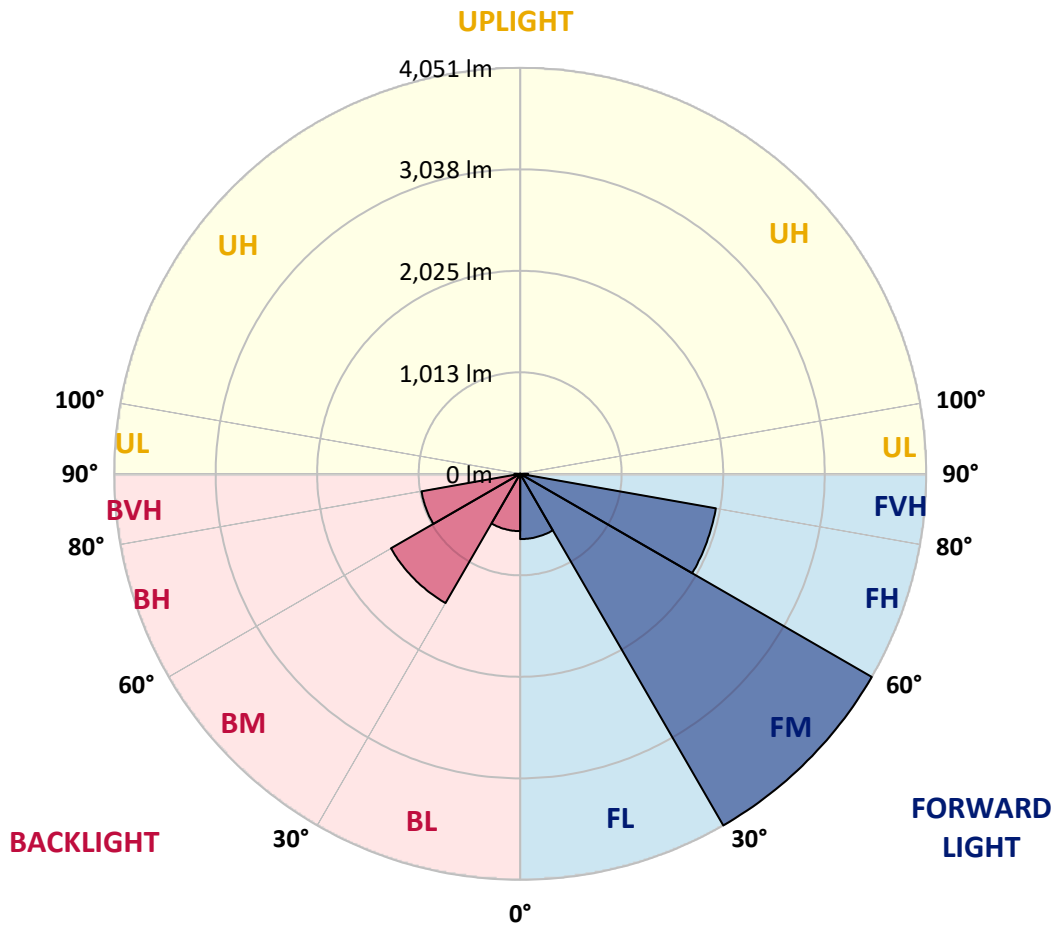
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.5	6.6			
FM (30°-60°)	4050.8	41.0			
FH (60°-80°)	1982.4	20.1			G2/5000
FVH (80°-90°)	80.3	0.8			G1/100
BL (0°-30°)	572.0	5.8	B2/1000		
BM (30°-60°)	1488.9	15.1	B2/2500		
BH (60°-80°)	1000.5	10.1	B3/2500		G3/2500
BVH (80°-90°)	57.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2
2.5°	1082.0	1078.9	1081.5	1081.5	1082.5	1082.0	1085.6	1086.6	1088.1	1091.2
5°	1071.2	1070.7	1075.3	1079.4	1083.5	1087.1	1091.7	1098.4	1099.4	1103.0
7.5°	1067.6	1064.6	1071.7	1076.9	1086.6	1095.3	1107.6	1118.9	1123.5	1125.1
10°	1095.3	1090.2	1096.9	1099.9	1108.1	1116.9	1131.2	1149.2	1154.3	1160.5
12.5°	1142.5	1136.9	1146.6	1151.2	1158.9	1166.6	1176.3	1193.8	1196.3	1207.6
15°	1207.1	1200.5	1206.6	1212.2	1225.1	1232.2	1242.0	1258.9	1258.9	1267.6
17.5°	1294.8	1286.1	1290.7	1292.8	1301.0	1311.7	1328.1	1343.0	1350.7	1347.6
20°	1425.6	1414.8	1414.8	1404.5	1401.5	1410.2	1431.7	1452.2	1460.4	1444.5
22.5°	1622.0	1606.6	1597.9	1563.0	1549.1	1550.2	1571.7	1596.8	1603.5	1575.3
25°	1871.7	1847.6	1835.8	1784.5	1753.2	1726.1	1743.0	1775.3	1784.5	1749.7
27.5°	2121.4	2123.0	2111.7	2050.1	1998.4	1948.6	1939.9	1973.7	1983.5	1944.0
30°	2471.7	2435.3	2413.7	2339.9	2266.0	2196.3	2160.4	2174.2	2176.8	2129.6
32.5°	2773.7	2764.5	2718.3	2653.7	2558.8	2449.6	2389.6	2367.6	2363.5	2296.3
35°	3117.8	3112.7	3063.9	2987.0	2884.5	2732.7	2624.5	2561.4	2556.3	2461.9
37.5°	3467.5	3467.5	3419.8	3335.7	3229.6	3039.8	2875.2	2775.2	2758.8	2635.8
40°	3746.5	3729.5	3738.3	3702.9	3581.4	3379.8	3153.7	3008.6	2986.5	2838.8
42.5°	3904.9	3899.3	3951.6	3991.1	3941.3	3780.3	3460.3	3261.4	3230.6	3062.4
45°	3940.3	3934.2	4027.5	4172.1	4241.8	4175.7	3793.6	3527.5	3490.1	3296.2
47.5°	3858.8	3846.5	3983.4	4211.6	4435.2	4551.6	4154.7	3816.2	3761.9	3523.9
50°	3613.7	3601.9	3809.0	4112.1	4500.3	4806.9	4546.4	4122.3	4039.3	3768.0
52.5°	3080.9	3086.5	3411.1	3827.5	4414.6	4965.9	4883.8	4444.9	4344.9	4017.7
55°	2399.9	2412.2	2811.1	3269.6	4072.1	4941.8	5114.1	4777.2	4677.7	4252.6
57.5°	1718.4	1772.7	2146.6	2600.4	3414.2	4559.8	5164.3	5093.1	4996.7	4509.0
60°	1113.8	1123.5	1508.1	1965.5	2599.9	3880.8	5062.3	5332.5	5257.2	4770.5
62.5°	713.8	720.5	954.8	1374.8	1871.2	2871.1	4718.7	5436.6	5413.6	4943.3
65°	524.6	519.5	641.5	908.7	1260.4	1770.7	4051.6	5386.4	5432.0	5051.5
67.5°	437.9	430.7	490.7	629.2	928.7	1005.6	2997.8	5059.7	5226.9	5039.2
70°	399.0	392.8	429.2	467.2	724.6	673.3	1511.2	4398.7	4656.2	4899.2
72.5°	337.9	327.2	376.9	414.9	563.6	516.4	624.6	3378.8	3692.6	4450.5
75°	262.0	254.9	297.4	365.1	423.6	403.1	394.9	2051.7	2394.2	3441.9
77.5°	207.7	197.9	236.9	284.6	381.0	304.1	287.7	883.5	1223.0	2197.3
80°	156.4	147.7	180.0	225.1	292.8	229.2	186.1	360.5	461.0	1113.3
82.5°	111.3	103.6	125.6	165.1	196.9	205.6	114.4	202.0	227.2	429.2
85°	71.3	66.7	84.1	103.6	125.1	132.3	69.7	105.6	115.9	176.9
87.5°	39.0	31.8	45.1	48.2	57.9	52.8	33.3	38.5	41.5	64.1
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°
1089.2	0°	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2
1091.2	2.5°	1093.3	1094.8	1099.9	1101.5	1105.1	1109.7	1112.8	1115.8	1115.8	1118.9
1107.6	5°	1108.1	1111.7	1122.5	1128.1	1137.4	1146.6	1152.2	1158.9	1163.0	1165.1
1133.8	7.5°	1136.9	1142.5	1157.9	1167.6	1183.5	1196.3	1205.1	1214.3	1216.3	1222.0
1170.2	10°	1175.8	1182.5	1199.9	1218.4	1237.4	1253.3	1261.5	1268.1	1270.7	1271.7
1216.9	12.5°	1220.4	1230.2	1252.8	1275.3	1295.3	1309.2	1311.2	1309.7	1302.5	1296.3
1274.3	15°	1275.3	1284.0	1309.2	1333.8	1353.3	1355.8	1343.0	1334.8	1326.1	1324.5
1338.4	17.5°	1341.0	1345.6	1368.6	1392.7	1394.3	1385.6	1366.6	1358.9	1350.7	1345.1
1422.0	20°	1417.4	1415.8	1432.2	1442.5	1431.7	1405.1	1376.3	1363.5	1355.3	1348.6
1524.5	22.5°	1508.6	1496.8	1494.8	1492.2	1463.5	1407.6	1368.6	1352.2	1339.4	1330.2
1667.6	25°	1641.5	1596.3	1565.0	1547.6	1483.0	1393.8	1344.0	1307.6	1283.5	1267.6
1842.5	27.5°	1807.6	1731.7	1652.7	1610.2	1483.0	1365.6	1284.5	1225.6	1186.1	1169.7
2011.7	30°	1966.1	1886.6	1770.2	1685.6	1479.4	1319.4	1188.7	1106.6	1060.5	1044.0
2156.3	32.5°	2101.4	2014.8	1894.8	1768.1	1470.7	1244.6	1069.7	978.9	934.3	914.8
2299.4	35°	2227.1	2134.8	2019.9	1858.9	1447.6	1134.8	938.9	869.7	820.0	788.7
2445.0	37.5°	2355.8	2246.0	2138.3	1940.9	1406.1	1006.6	838.4	779.4	721.0	678.9
2599.9	40°	2495.8	2364.5	2265.0	1989.6	1337.9	884.6	760.5	706.6	644.6	600.0
2778.3	42.5°	2659.3	2506.5	2406.0	2014.8	1244.6	797.9	709.7	656.9	598.4	562.0
2969.6	45°	2830.1	2662.9	2534.7	2014.3	1140.5	757.4	693.3	641.0	576.4	538.4
3166.0	47.5°	3009.1	2826.5	2646.0	1981.4	1050.2	763.0	684.1	606.6	535.4	498.4
3364.4	50°	3188.6	3005.5	2753.7	1919.9	1011.7	750.7	649.7	558.4	474.3	441.0
3550.6	52.5°	3366.5	3195.7	2846.5	1832.2	972.8	705.1	605.6	495.9	449.2	426.1
3742.9	55°	3545.5	3383.9	2947.5	1704.5	875.3	651.8	531.8	472.3	429.2	408.2
3931.1	57.5°	3724.9	3601.4	3043.4	1576.8	752.8	586.1	491.3	443.6	409.2	391.3
4088.5	60°	3911.6	3850.1	3142.4	1459.4	631.8	502.0	461.5	420.5	385.6	365.6
4239.8	62.5°	4103.9	4123.9	3219.8	1308.1	520.5	450.7	434.8	392.8	359.0	340.0
4364.9	65°	4297.7	4388.0	3270.6	1098.4	422.0	402.0	406.1	362.5	328.2	311.8
4456.7	67.5°	4443.9	4578.2	3256.2	831.2	346.1	355.9	370.2	330.8	298.4	285.6
4441.8	70°	4460.3	4555.7	3114.7	569.2	289.7	310.8	330.2	299.5	266.1	256.9
4232.6	72.5°	4241.8	4248.0	2720.4	371.8	245.1	272.8	288.2	267.7	235.4	226.1
3702.9	75°	3669.0	3513.2	1997.3	245.1	205.1	234.3	248.7	234.3	203.1	205.1
2770.6	77.5°	2779.9	2488.1	1212.8	174.3	171.3	196.9	216.4	206.1	179.5	201.5
1393.3	80°	1432.2	1346.1	541.0	130.2	135.4	157.4	177.9	164.6	142.0	135.4
311.3	82.5°	328.2	381.5	213.3	93.3	97.9	113.3	135.9	123.6	102.0	86.1
129.7	85°	114.9	125.6	94.4	58.5	57.4	70.8	92.3	82.6	69.2	55.4
54.9	87.5°	36.4	47.7	35.4	23.6	24.6	31.8	42.6	39.0	32.3	21.0
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>
1089.2
1118.9
1166.1
1219.9
1269.2
1296.3
1324.5
1345.6
1349.2
1333.3
1273.8
1177.9
1053.8
924.6
798.9
690.2
608.7
569.2
544.6
503.6
443.1
426.1
406.1
388.2
364.1
339.5
311.3
286.1
257.4
225.6
197.9
177.4
123.6
85.1
58.5
22.1
0.0

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