

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: P946446

Luminaire Tested: **GALN-SB2A-830-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946446  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-830-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

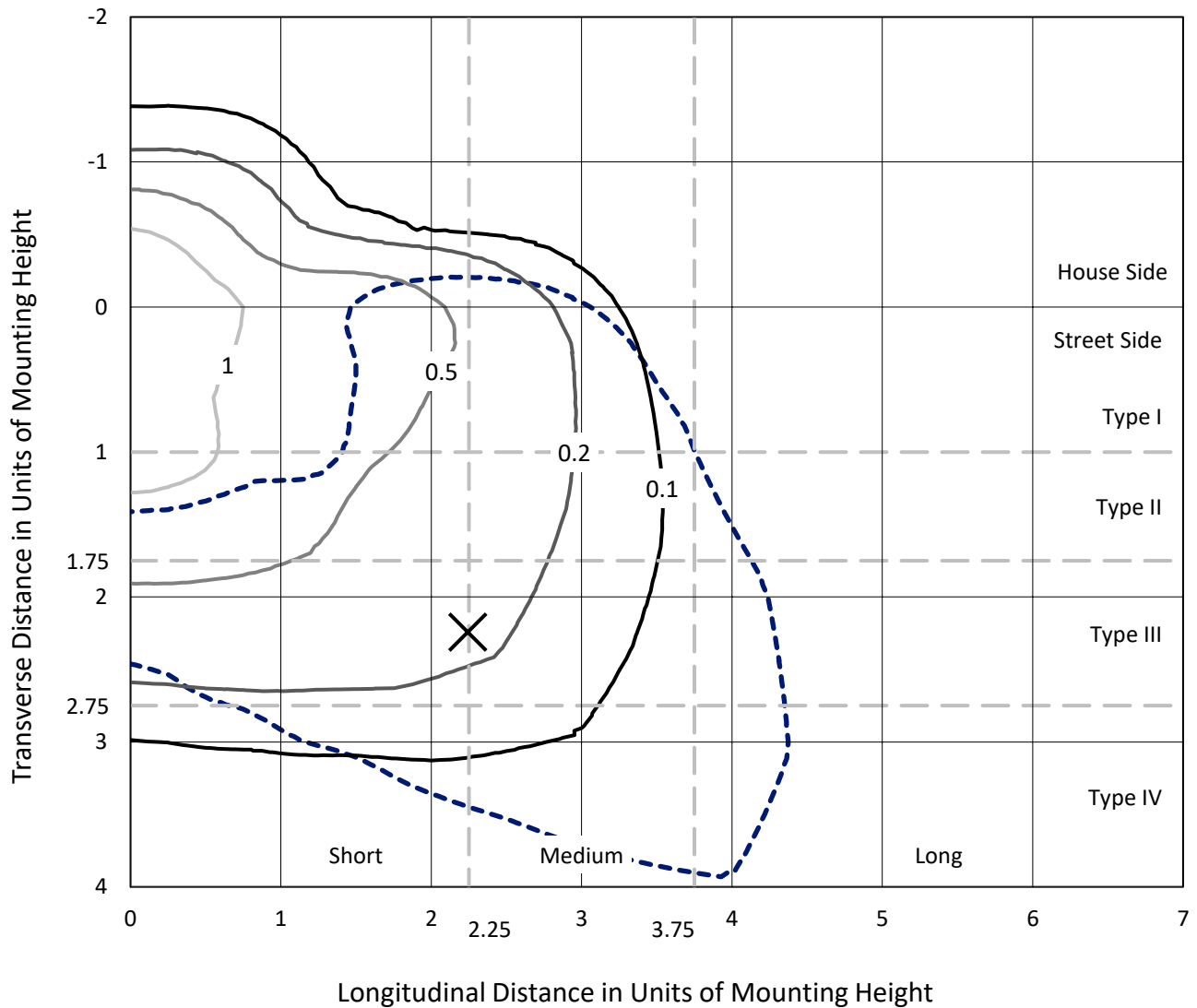
Lumens per Lamp: N/A  
Luminaire Lumens: 8045 lumens  
Efficiency: N/A  
Efficacy: 140.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

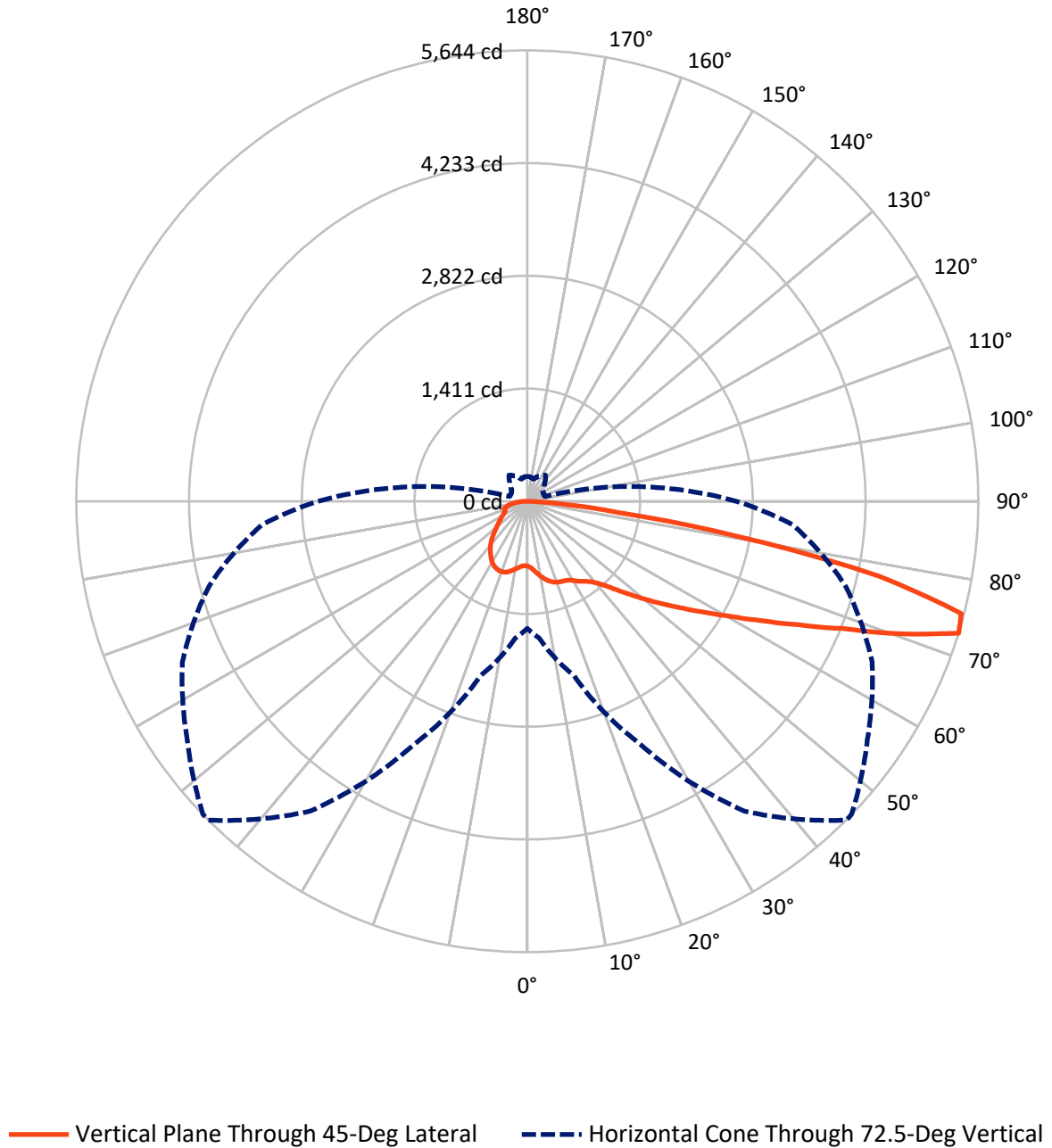
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1818.7	0.0	1818.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	6226.3	0.0	6226.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	8045.0	0.0	8045.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	1.0
10°-20°	275.4	3.4
20°-30°	479.1	6.0
30°-40°	686.8	8.5
40°-50°	967.1	12.0
50°-60°	1481.3	18.4
60°-70°	2145.8	26.7
70°-80°	1713.6	21.3
80°-90°	213.4	2.7
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°	8045.0	100.0
0°-180°	8045.0	100.0

**Coefficient of Utilization**



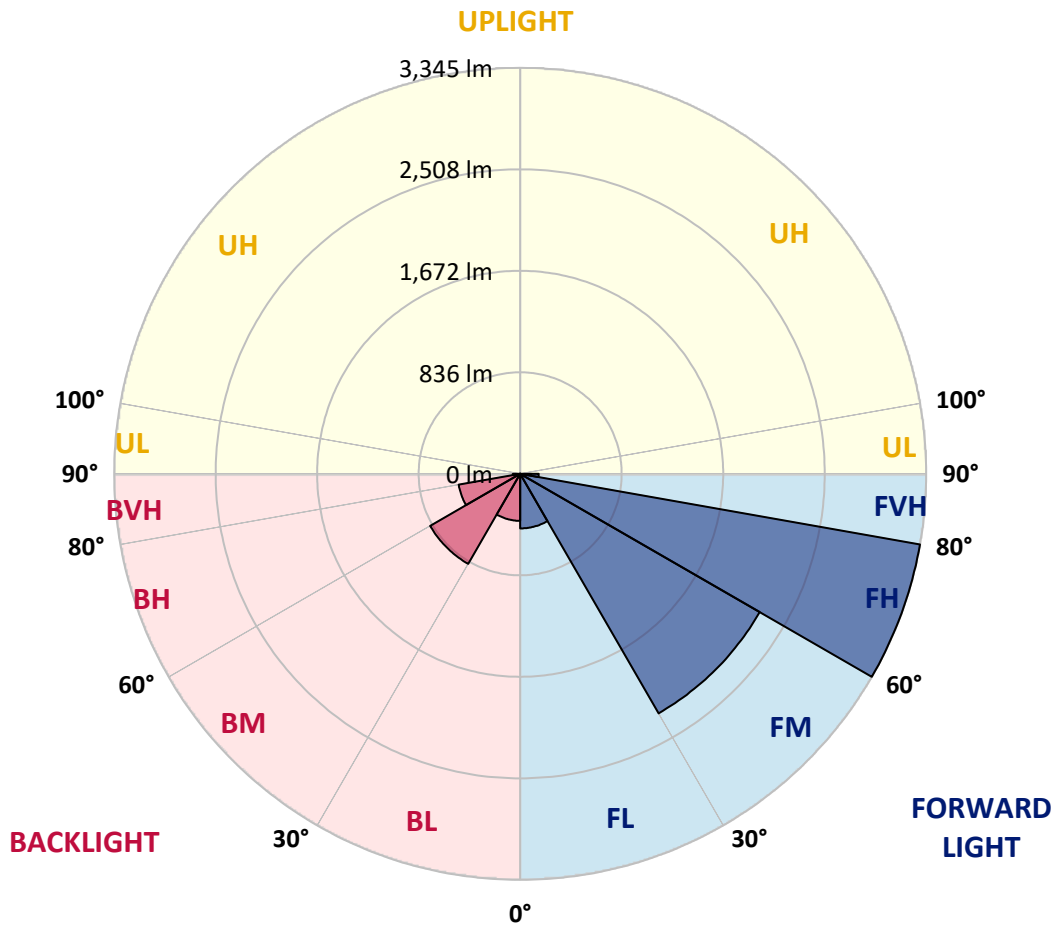
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.9	5.6			
FM (30°-60°)	2278.8	28.3			
FH (60°-80°)	3344.5	41.6			G2/5000
FVH (80°-90°)	153.1	1.9			G2/225
BL (0°-30°)	387.2	4.8	B1/500		
BM (30°-60°)	856.4	10.6	B1/1000		
BH (60°-80°)	514.8	6.4	B2/1000		G2/1000
BVH (80°-90°)	60.3	0.7			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	811.6	811.6	811.6	811.6	811.6	811.6	811.6	811.6	811.6	811.6
2.5°	843.4	848.9	843.8	839.1	837.0	831.5	831.1	827.7	825.6	819.6
5°	902.3	909.5	901.0	891.7	883.2	869.6	867.9	858.2	847.2	834.5
7.5°	968.8	975.2	965.4	951.4	936.6	914.1	913.7	895.9	878.5	856.9
10°	1026.9	1035.4	1022.2	1003.1	984.5	959.1	956.1	935.8	913.7	885.7
12.5°	1078.2	1084.1	1071.4	1048.1	1026.5	1001.0	997.2	974.7	950.2	918.4
15°	1118.8	1126.5	1109.5	1084.5	1061.6	1036.6	1033.2	1012.9	988.3	954.8
17.5°	1145.5	1151.9	1134.5	1106.6	1084.5	1063.7	1061.2	1044.3	1022.6	988.7
20°	1155.7	1162.5	1144.3	1115.9	1095.5	1079.4	1078.2	1065.9	1051.0	1020.1
22.5°	1165.9	1172.2	1148.5	1118.8	1101.0	1090.9	1090.4	1082.4	1076.5	1051.0
25°	1207.0	1208.7	1176.9	1134.1	1108.7	1099.8	1099.3	1098.9	1101.5	1081.5
27.5°	1242.6	1242.2	1215.0	1174.8	1135.4	1116.7	1116.3	1120.5	1128.6	1112.1
30°	1294.7	1290.1	1257.8	1215.9	1179.9	1151.1	1148.5	1144.7	1151.1	1137.9
32.5°	1405.3	1390.5	1338.4	1263.8	1216.7	1194.7	1191.3	1167.6	1170.1	1162.1
35°	1563.8	1544.3	1474.8	1354.5	1262.5	1231.1	1229.5	1199.4	1194.3	1187.1
37.5°	1752.4	1728.3	1647.3	1485.9	1341.3	1273.5	1271.0	1243.9	1223.1	1215.5
40°	1941.9	1911.4	1844.4	1646.1	1457.5	1344.3	1336.3	1295.1	1271.4	1258.7
42.5°	2125.8	2100.4	2043.2	1825.7	1600.7	1447.7	1429.9	1359.6	1341.8	1329.9
45°	2288.5	2265.7	2223.7	2017.7	1768.5	1588.4	1571.0	1456.2	1450.7	1450.7
47.5°	2420.8	2415.7	2371.2	2213.5	1966.4	1748.6	1718.5	1590.5	1605.4	1628.3
50°	2567.4	2553.4	2506.0	2406.4	2199.1	1932.1	1907.5	1755.4	1810.9	1873.6
52.5°	2702.2	2709.8	2656.8	2607.2	2461.9	2136.8	2093.6	1949.9	2069.9	2173.7
55°	2840.8	2841.2	2826.3	2819.6	2737.3	2363.1	2315.7	2183.9	2374.6	2503.4
57.5°	2970.9	2971.7	2993.7	3053.5	3056.9	2624.2	2570.4	2471.2	2713.2	2844.6
60°	3087.0	3092.9	3153.1	3293.0	3337.9	2923.4	2872.5	2810.7	3063.3	3195.5
62.5°	3126.0	3147.6	3281.5	3480.3	3615.5	3290.4	3240.4	3203.5	3431.1	3554.0
65°	3059.9	3109.4	3368.4	3635.0	3901.1	3726.5	3676.9	3636.7	3813.4	3929.1
67.5°	2897.5	2961.5	3363.3	3797.3	4247.8	4251.2	4205.0	4110.5	4223.2	4267.7
70°	2469.9	2565.7	3067.1	3857.9	4645.7	4968.7	4924.2	4680.9	4632.2	4416.9
72.5°	1591.4	1720.2	2258.4	3359.1	4734.3	5643.8	5641.2	5195.8	4761.4	4127.0
75°	580.6	659.4	1049.3	2108.4	3974.0	5609.5	5626.0	5107.7	4346.5	3187.9
77.5°	211.5	231.4	342.4	810.3	2444.1	4500.8	4535.1	4083.3	3093.8	1599.9
80°	111.0	122.1	175.5	314.5	1047.2	2672.9	2726.8	2426.7	1454.1	481.9
82.5°	61.5	66.5	98.3	170.8	471.7	1143.0	1175.2	958.6	511.5	204.3
85°	33.1	35.2	46.2	93.2	230.5	396.3	405.2	286.5	203.8	119.9
87.5°	9.7	11.9	15.3	29.7	90.3	89.0	91.1	56.8	80.5	60.6
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°
811.6	0°	811.6	811.6	811.6	811.6	811.6	811.6	811.6	811.6	811.6	811.6
817.9	2.5°	815.4	814.1	809.5	807.3	804.8	804.4	806.5	806.9	807.3	807.8
827.3	5°	823.0	818.8	814.6	812.0	812.9	813.3	817.5	820.5	822.6	824.3
844.6	7.5°	837.9	834.5	827.3	826.8	828.1	831.9	837.4	844.2	848.0	851.0
867.1	10°	859.9	853.5	845.1	846.3	848.9	854.4	865.8	871.3	877.7	883.2
894.6	12.5°	882.4	876.8	867.1	867.9	872.2	881.9	893.0	899.7	904.0	908.2
924.3	15°	911.6	901.9	891.3	891.3	898.9	909.5	914.6	920.1	922.6	927.3
956.1	17.5°	941.7	929.0	915.0	914.1	923.5	928.6	931.5	932.4	933.2	938.3
987.0	20°	971.8	957.8	937.9	936.2	938.3	937.5	937.0	936.2	937.5	943.8
1018.8	22.5°	1001.4	985.3	957.8	950.2	944.2	936.2	935.8	935.3	936.2	942.5
1053.2	25°	1036.2	1016.7	979.8	956.9	937.0	926.0	927.3	927.7	928.6	933.6
1088.8	27.5°	1073.9	1052.3	1000.2	954.8	918.8	911.2	909.1	910.3	913.3	921.3
1124.4	30°	1111.6	1086.2	1018.8	946.4	895.9	885.3	878.5	881.5	890.8	898.9
1155.3	32.5°	1146.0	1120.5	1033.7	927.7	866.7	850.2	841.3	845.1	854.4	857.4
1189.6	35°	1186.2	1157.4	1040.0	898.0	834.9	809.5	797.6	792.1	796.8	793.8
1229.9	37.5°	1231.1	1201.1	1039.2	859.0	797.6	768.4	751.8	731.1	721.3	711.1
1289.2	40°	1297.7	1254.5	1029.0	812.0	751.4	724.7	695.0	659.9	637.8	617.9
1385.0	42.5°	1388.4	1328.6	1010.3	760.3	699.3	674.3	634.0	592.9	558.1	525.1
1530.4	45°	1523.6	1425.7	987.0	705.2	642.9	618.3	574.7	528.5	489.1	446.7
1736.7	47.5°	1718.5	1556.2	965.0	642.5	583.6	561.1	521.7	478.9	432.3	391.2
2035.1	50°	1986.4	1743.5	944.7	581.5	525.1	508.1	476.8	433.1	386.1	353.0
2384.7	52.5°	2327.1	1998.2	936.2	522.5	470.4	464.1	439.1	398.4	353.9	325.9
2792.4	55°	2718.3	2302.9	936.2	466.2	422.5	424.7	407.3	369.6	331.0	306.0
3212.9	57.5°	3117.5	2611.5	919.2	414.1	381.8	390.7	379.7	346.7	311.9	286.1
3654.9	60°	3485.4	2870.0	850.6	366.6	345.8	359.8	352.6	324.2	281.8	260.2
4024.4	62.5°	3768.0	3015.8	718.3	328.9	316.2	332.3	328.4	294.5	276.3	267.4
4327.9	65°	3909.6	2992.1	549.2	295.4	291.2	316.2	308.1	306.8	292.4	282.3
4426.6	67.5°	3822.7	2787.8	398.4	270.8	276.7	301.3	332.3	337.3	310.6	290.7
4148.6	70°	3441.7	2418.2	296.7	247.5	258.5	301.7	378.9	353.0	304.7	281.4
3327.3	72.5°	2618.3	1803.3	230.1	222.9	234.8	303.9	399.6	345.8	287.8	311.1
2072.8	75°	1497.3	990.0	184.8	192.8	205.1	283.9	389.1	327.2	274.6	285.6
821.3	77.5°	570.9	380.6	152.6	163.2	164.9	247.9	372.1	325.9	261.5	255.1
246.2	80°	197.9	148.8	126.3	129.7	127.6	220.4	356.8	283.5	214.0	191.6
101.7	82.5°	80.9	74.2	100.0	95.8	90.7	171.2	288.2	231.8	175.0	154.7
49.2	85°	35.2	47.0	66.1	58.1	52.6	118.7	231.0	196.2	147.9	127.6
16.1	87.5°	7.2	17.8	28.0	26.3	27.1	79.3	164.0	139.4	104.7	78.4
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>
811.6
809.5
825.1
851.8
881.9
909.9
929.0
940.0
946.4
946.8
940.4
929.4
907.8
867.9
803.1
717.5
619.2
522.1
441.6
386.5
350.9
323.8
303.4
281.8
256.8
264.5
278.9
287.3
277.6
308.5
285.6
232.7
185.2
153.0
127.1
61.5
0.0

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