

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: P939462

Luminaire Tested: **GALN-SB2A-827-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
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-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

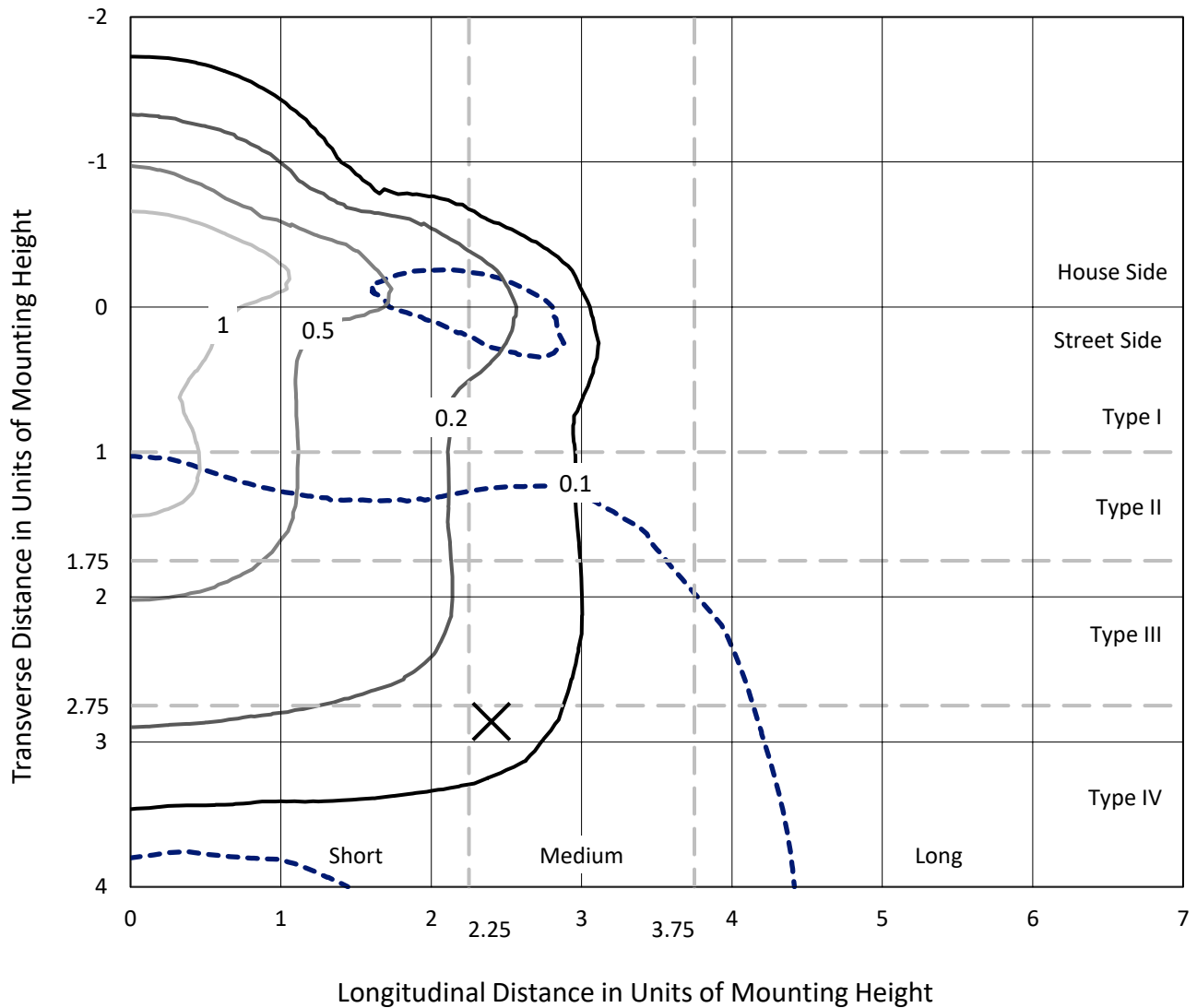
Lumens per Lamp: N/A  
Luminaire Lumens: 7733 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

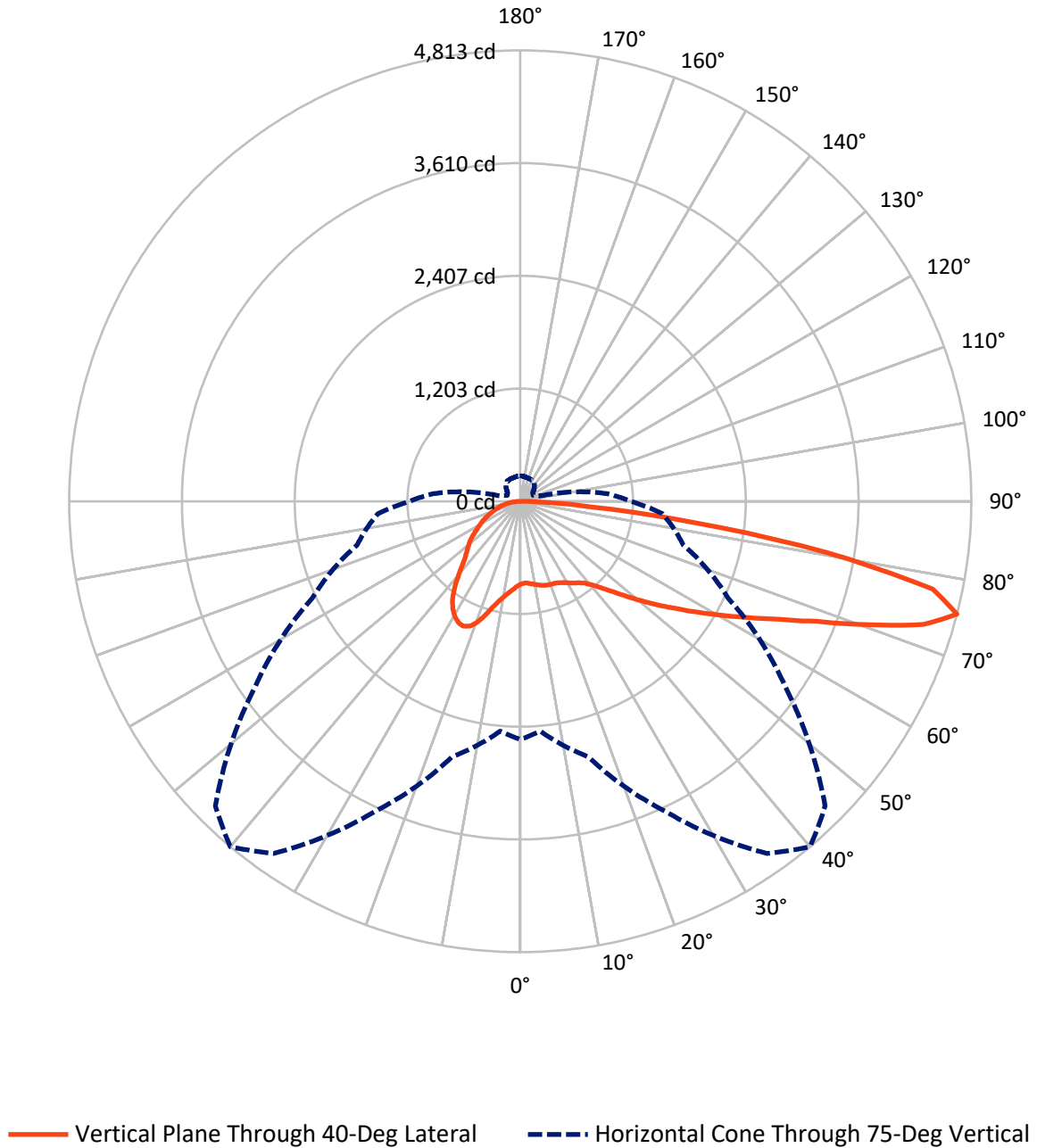
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2395.9	0.0	2395.9
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	5337.1	0.0	5337.1
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	7733.0	0.0	7733.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.3	1.1
10°-20°	296.4	3.8
20°-30°	541.1	7.0
30°-40°	767.5	9.9
40°-50°	1036.3	13.4
50°-60°	1394.1	18.0
60°-70°	1769.4	22.9
70°-80°	1605.9	20.8
80°-90°	234.1	3.0
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°	7733.0	100.0
0°-180°	7733.0	100.0

**Coefficient of Utilization**



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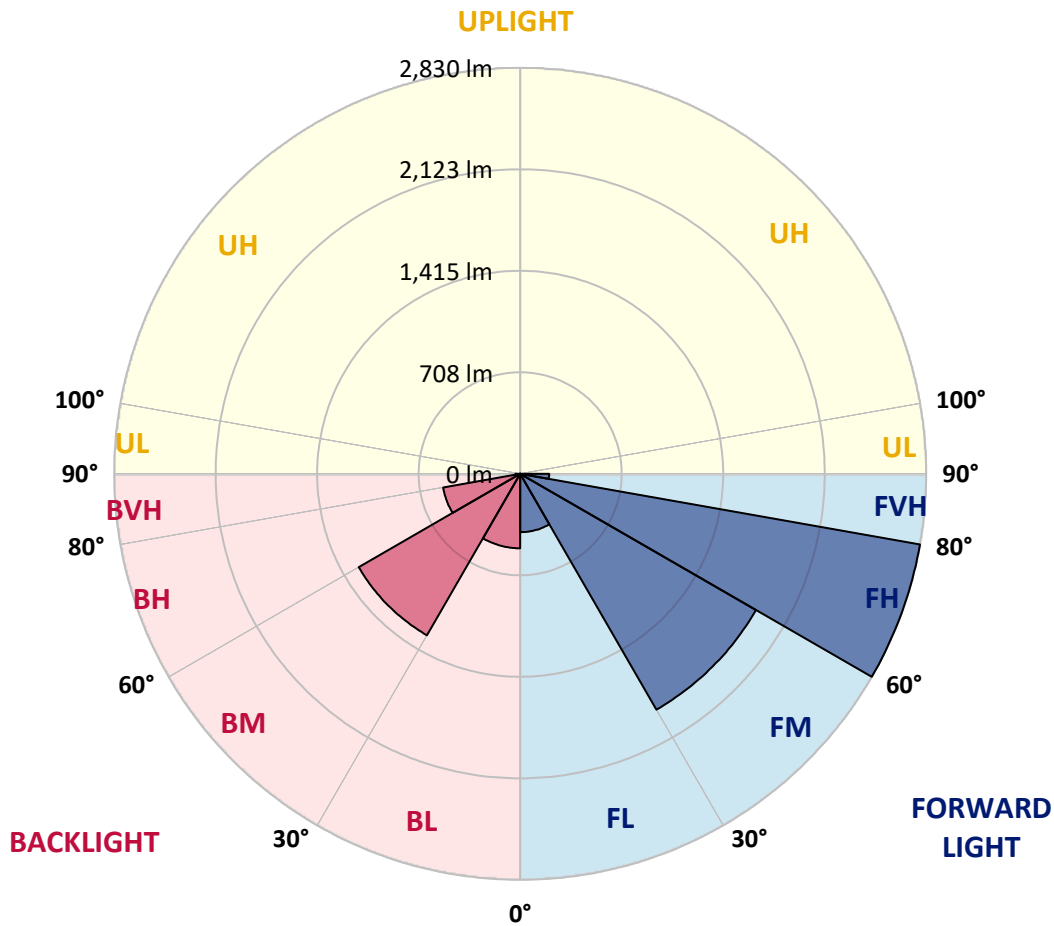
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.8	5.3			
FM (30°-60°)	1898.3	24.5			
FH (60°-80°)	2830.2	36.6			G2/5000
FVH (80°-90°)	201.9	2.6			G2/225
BL (0°-30°)	519.0	6.7	B2/1000		
BM (30°-60°)	1299.6	16.8	B2/2500		
BH (60°-80°)	545.1	7.0	B2/1000		G2/1000
BVH (80°-90°)	32.2	0.4			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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	884.3	884.3	884.3	884.3	884.3	884.3	884.3	884.3	884.3	884.3
2.5°	870.7	875.7	874.4	872.8	872.8	873.2	872.8	875.7	878.5	881.4
5°	879.8	884.7	882.2	880.2	878.5	878.1	876.9	876.5	878.1	881.8
7.5°	897.4	902.3	898.6	894.9	891.7	890.0	888.4	885.9	884.7	886.7
10°	917.1	922.0	917.5	910.9	905.6	903.6	901.9	899.5	897.8	899.0
12.5°	936.8	941.7	935.5	926.5	919.6	918.3	916.3	915.5	915.0	914.6
15°	955.2	959.3	951.5	940.9	933.5	931.4	929.4	930.6	932.7	935.1
17.5°	969.6	973.7	962.2	948.3	941.3	940.5	939.2	943.3	949.1	955.2
20°	982.7	986.8	972.1	953.2	945.0	945.0	945.4	954.0	962.2	971.2
22.5°	1001.2	1004.5	986.4	960.6	948.7	949.5	952.8	961.4	971.6	983.9
25°	1028.7	1031.1	1009.0	974.5	961.0	963.4	966.3	970.4	980.3	994.6
27.5°	1072.9	1075.0	1045.9	999.1	978.6	982.7	986.8	983.9	988.5	1000.8
30°	1135.3	1136.5	1099.6	1037.7	1008.6	1010.6	1011.4	999.5	990.9	1000.8
32.5°	1209.1	1208.7	1164.8	1084.4	1042.6	1040.5	1033.6	1010.2	990.1	998.7
35°	1323.5	1319.0	1262.4	1150.1	1081.1	1068.4	1052.0	1022.1	994.2	996.7
37.5°	1513.0	1499.1	1420.8	1257.5	1138.6	1106.2	1082.0	1041.4	1003.2	995.8
40°	1726.7	1709.1	1623.0	1404.8	1224.7	1172.6	1133.6	1068.8	1018.0	999.5
42.5°	1980.2	1955.2	1862.5	1578.2	1333.8	1258.3	1199.7	1103.7	1039.7	1011.4
45°	2291.5	2258.3	2127.0	1773.9	1471.2	1370.7	1292.4	1156.6	1072.9	1034.4
47.5°	2606.1	2614.3	2427.7	1997.8	1636.1	1509.3	1408.4	1236.2	1121.3	1071.3
50°	2940.4	2946.1	2726.7	2246.0	1823.1	1666.0	1538.9	1325.2	1188.6	1123.8
52.5°	3201.2	3202.0	2998.2	2505.6	2017.9	1838.3	1679.6	1426.9	1266.5	1193.5
55°	3364.4	3362.4	3188.5	2751.3	2241.9	2019.2	1835.4	1542.6	1361.7	1275.6
57.5°	3483.0	3476.8	3319.7	2962.5	2480.6	2232.8	2011.8	1673.8	1474.1	1373.2
60°	3528.1	3524.4	3408.7	3145.0	2731.6	2469.1	2215.2	1820.6	1601.6	1488.4
62.5°	3545.3	3552.3	3496.1	3321.8	3000.2	2730.8	2438.7	1996.2	1745.2	1618.9
65°	3606.0	3618.7	3607.3	3553.1	3303.7	3037.1	2735.3	2205.0	1901.9	1758.7
67.5°	3726.2	3738.9	3743.8	3830.0	3674.5	3419.0	3105.2	2465.0	2085.2	1903.9
70°	3723.3	3719.6	3806.6	4050.2	4138.8	3947.7	3604.0	2784.9	2303.8	2024.5
72.5°	3389.1	3359.5	3565.0	4047.7	4525.2	4499.7	4213.0	3197.5	2492.5	2039.3
75°	2542.5	2463.8	2826.7	3647.9	4589.6	4813.1	4600.2	3453.4	2447.8	1801.8
77.5°	1087.3	1008.1	1435.9	2700.4	4107.6	4499.3	4245.0	3012.9	1953.9	1191.5
80°	284.6	284.2	433.9	1224.3	2793.5	3322.6	2914.9	1945.7	1116.4	425.7
82.5°	117.7	114.8	159.5	476.2	1365.0	1864.5	1521.6	867.9	403.2	115.3
85°	43.9	43.5	77.5	164.5	481.5	769.0	556.6	221.9	100.5	56.2
87.5°	12.3	11.9	16.8	57.0	117.3	178.0	95.2	36.5	28.3	22.1
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°
884.3	0°	884.3	884.3	884.3	884.3	884.3	884.3	884.3	884.3	884.3	884.3
885.9	2.5°	887.1	889.2	892.9	895.8	899.5	903.6	909.3	913.0	916.7	919.1
888.0	5°	890.8	895.4	904.8	914.2	925.3	935.5	947.4	956.1	963.0	965.1
895.4	7.5°	899.0	906.4	922.4	938.4	956.1	972.9	990.1	1004.9	1016.8	1021.3
908.5	10°	913.4	923.2	945.8	968.4	991.7	1017.6	1039.7	1061.1	1077.9	1084.8
924.1	12.5°	931.4	943.8	973.3	1004.5	1036.9	1072.5	1101.2	1127.5	1148.4	1157.8
945.8	15°	954.8	970.8	1008.6	1050.4	1098.0	1147.6	1184.1	1213.2	1236.6	1248.1
968.4	17.5°	980.3	1001.6	1049.2	1112.3	1180.4	1245.6	1288.3	1309.6	1333.8	1344.9
989.3	20°	1004.9	1031.1	1099.2	1191.1	1281.7	1351.0	1385.5	1391.2	1392.9	1394.1
1009.0	22.5°	1030.3	1065.6	1161.9	1290.3	1387.5	1435.5	1440.4	1415.8	1381.4	1365.4
1028.2	25°	1058.2	1104.9	1244.0	1399.8	1478.6	1484.3	1446.6	1386.7	1321.5	1291.6
1043.8	27.5°	1085.3	1150.5	1342.4	1504.4	1544.2	1493.8	1412.5	1327.6	1248.9	1217.3
1054.9	30°	1112.3	1202.6	1451.1	1595.9	1574.1	1470.4	1358.8	1264.1	1184.9	1151.7
1064.7	32.5°	1139.8	1263.3	1576.2	1661.9	1568.8	1420.8	1292.0	1192.7	1123.0	1088.1
1073.4	35°	1171.0	1337.9	1694.7	1698.0	1533.1	1347.7	1203.8	1107.4	1046.7	1018.8
1083.6	37.5°	1211.6	1432.6	1799.3	1707.0	1470.8	1240.7	1094.3	1006.5	956.5	943.8
1098.8	40°	1262.0	1546.7	1879.3	1692.7	1378.5	1110.7	974.5	904.4	876.1	878.9
1119.3	42.5°	1327.6	1674.2	1935.5	1655.8	1250.1	976.6	869.5	838.3	851.9	863.4
1150.1	45°	1413.0	1806.7	1970.4	1593.0	1104.9	863.0	807.6	815.0	825.2	826.4
1199.7	47.5°	1522.1	1940.8	1993.3	1498.3	956.9	783.0	768.2	769.8	767.8	759.2
1273.9	50°	1658.2	2071.2	2013.8	1372.8	831.0	732.9	713.2	707.5	679.2	651.3
1372.8	52.5°	1813.3	2191.0	2022.4	1216.9	732.9	691.1	659.1	623.0	570.1	561.5
1497.0	55°	1985.5	2301.7	2000.3	1025.4	650.5	637.4	589.0	545.5	539.8	532.4
1660.7	57.5°	2191.4	2421.1	1955.2	811.7	566.0	574.6	527.5	532.4	522.1	510.6
1871.1	60°	2416.6	2544.6	1876.0	616.9	478.6	496.3	511.5	511.0	508.2	498.7
2093.0	62.5°	2619.2	2625.8	1720.2	472.5	401.9	435.6	477.0	476.6	474.1	468.8
2324.7	65°	2739.8	2613.5	1460.1	372.0	338.8	385.5	430.2	433.5	433.9	433.5
2499.0	67.5°	2718.5	2469.5	1103.3	296.1	286.7	334.7	383.9	388.4	391.7	392.5
2521.2	70°	2477.3	2153.3	719.4	236.2	240.3	290.0	340.0	344.5	347.4	350.7
2187.7	72.5°	1931.0	1583.2	411.8	191.1	199.7	251.4	296.5	301.9	303.5	309.7
1522.5	75°	1176.7	931.0	222.3	150.5	164.1	214.9	253.5	259.6	262.5	269.9
747.7	77.5°	559.4	403.2	126.7	117.3	132.1	175.5	214.1	221.1	213.3	217.4
206.3	80°	189.1	149.7	80.0	89.4	100.9	137.0	171.4	178.4	162.0	161.2
68.5	82.5°	66.0	60.7	50.9	59.5	65.2	98.0	129.6	138.6	120.6	120.2
30.8	85°	25.8	24.6	28.3	32.4	39.0	60.3	85.3	89.8	74.2	59.9
9.0	87.5°	5.3	5.7	7.0	7.4	11.9	20.9	30.8	37.7	29.9	25.4
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>
884.3
917.5
965.9
1021.7
1085.3
1157.8
1247.3
1344.5
1397.4
1369.9
1296.1
1221.0
1155.4
1092.6
1025.0
952.8
888.8
874.0
834.7
765.7
655.0
564.4
533.6
508.6
495.5
466.7
433.5
393.3
352.3
312.1
270.7
214.1
159.5
114.4
59.1
23.4
0.0

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