

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: P939469

Luminaire Tested: **GALN-SB2A-827-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939469  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
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-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

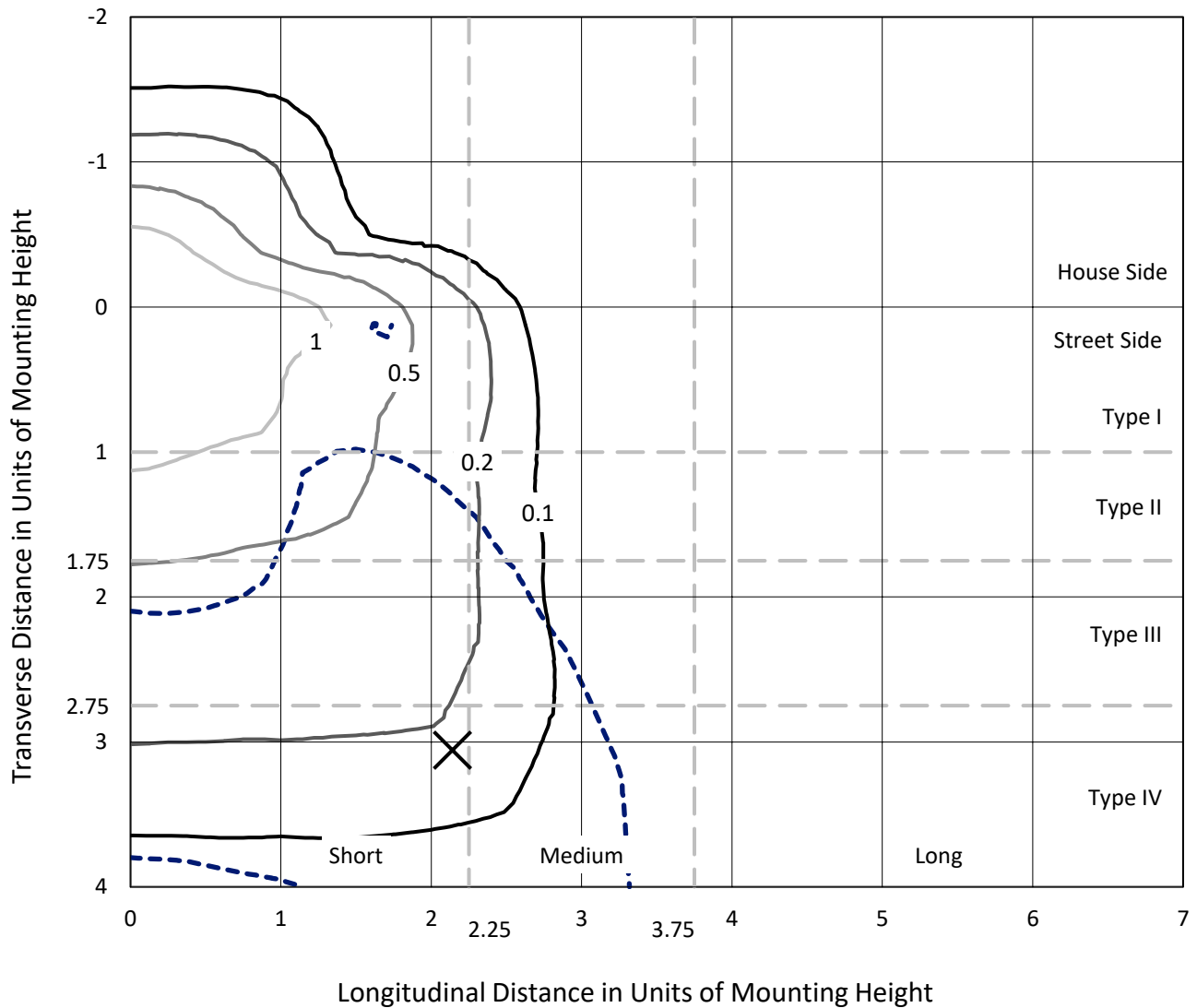
Lumens per Lamp: N/A  
Luminaire Lumens: 7710 lumens  
Efficiency: N/A  
Efficacy: 134.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

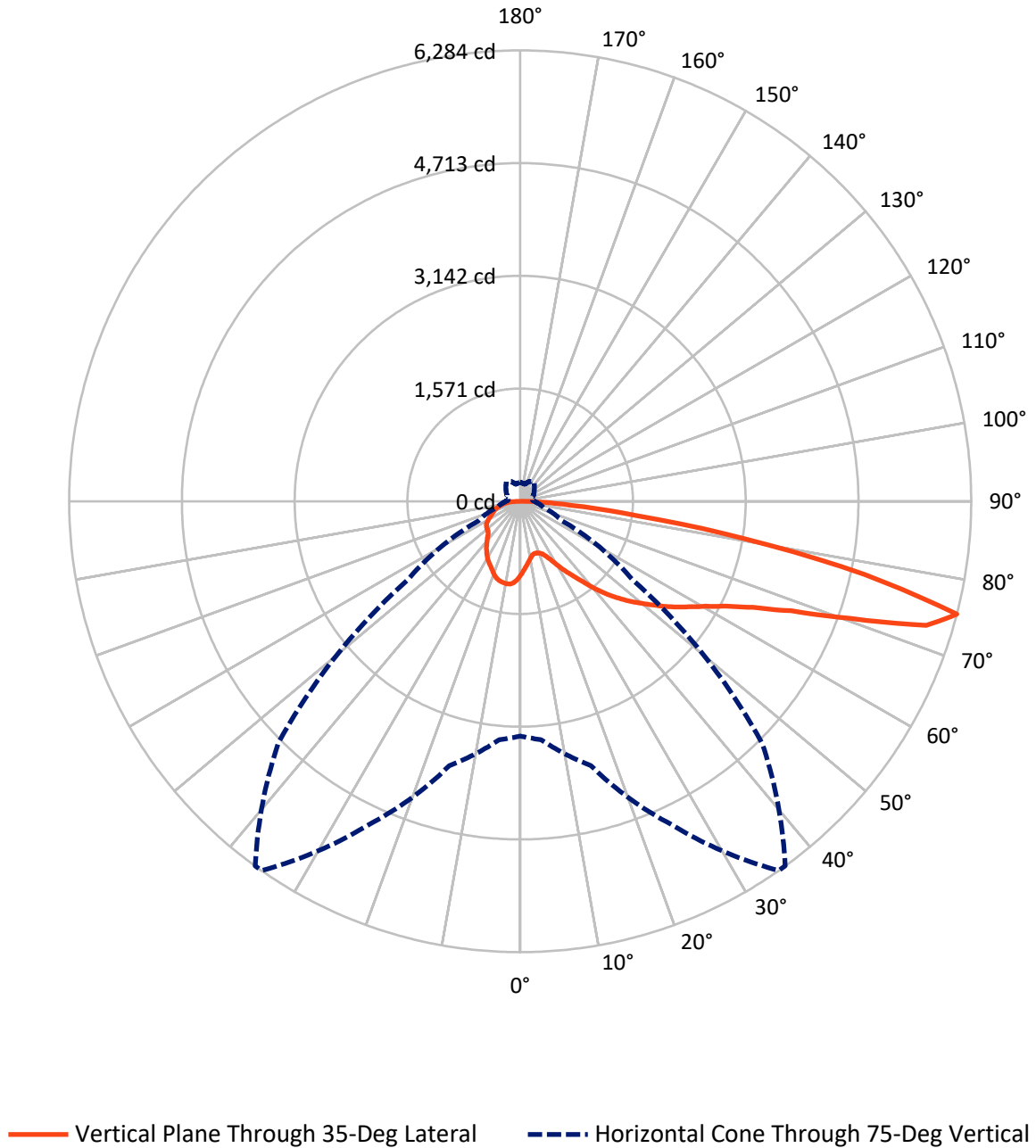
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	1834.8	0.0	1834.8
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	5875.2	0.0	5875.2
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	7710.0	0.0	7710.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.3	1.3
10°-20°	280.6	3.6
20°-30°	471.2	6.1
30°-40°	732.3	9.5
40°-50°	1086.9	14.1
50°-60°	1500.5	19.5
60°-70°	1820.5	23.6
70°-80°	1504.5	19.5
80°-90°	216.4	2.8
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°	7710.0	100.0
0°-180°	7710.0	100.0

**Coefficient of Utilization**



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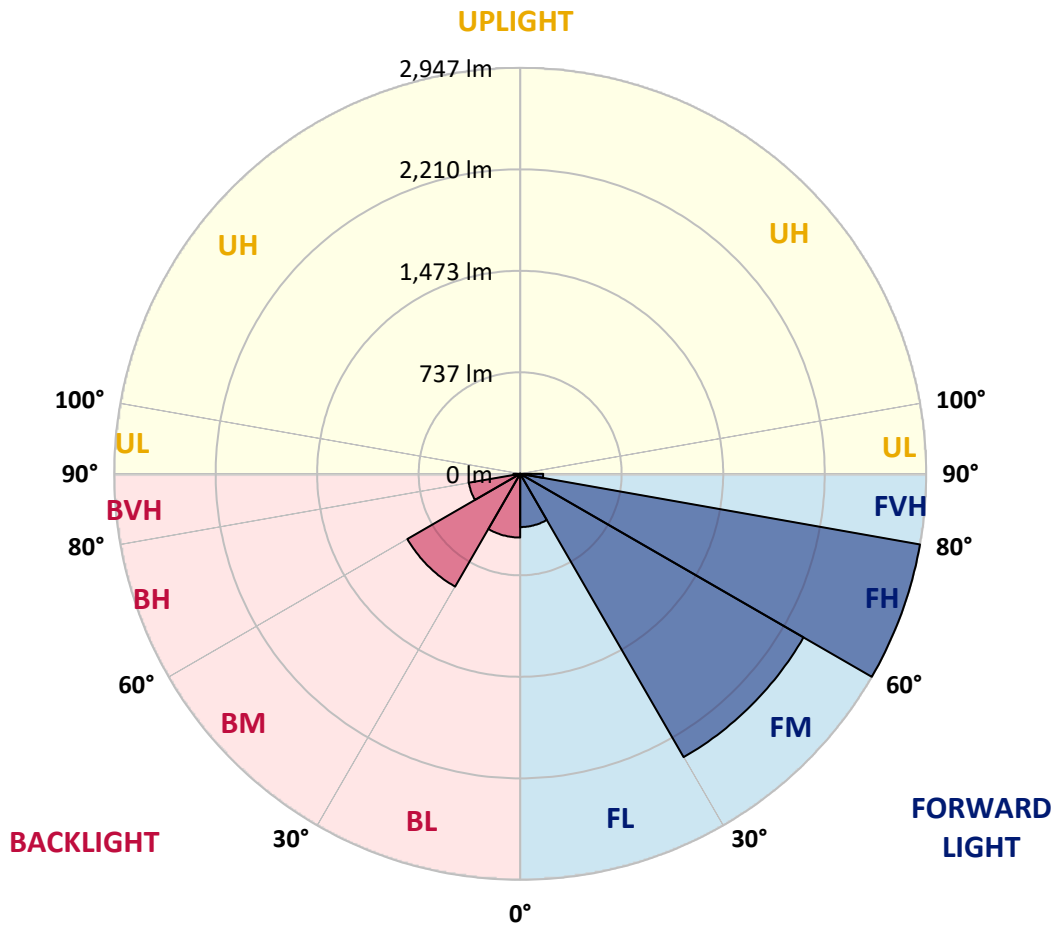
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.6	5.0			
FM (30°-60°)	2374.3	30.8			
FH (60°-80°)	2946.6	38.2			G2/5000
FVH (80°-90°)	167.7	2.2			G2/225
BL (0°-30°)	462.4	6.0	B1/500		
BM (30°-60°)	945.4	12.3	B1/1000		
BH (60°-80°)	378.3	4.9	B1/500		G1/500
BVH (80°-90°)	48.7	0.6			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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4
2.5°	947.4	953.2	955.7	954.5	960.7	959.9	968.6	979.5	994.5	1009.1
5°	874.4	880.7	886.1	891.1	903.2	907.0	920.7	941.5	969.1	997.0
7.5°	806.5	811.9	820.3	829.4	849.9	853.6	876.5	909.0	947.4	988.2
10°	751.1	756.5	765.2	775.7	801.1	805.7	834.8	878.2	928.2	979.9
12.5°	727.3	729.0	734.0	744.4	766.5	769.4	801.5	851.1	909.5	973.6
15°	726.1	729.4	729.8	735.2	753.6	754.8	784.4	833.6	897.8	972.4
17.5°	738.6	741.1	737.3	740.7	756.1	758.2	781.5	825.3	894.0	977.8
20°	771.9	774.0	762.7	758.2	769.4	771.1	794.0	830.7	897.8	989.1
22.5°	842.8	844.0	816.5	797.8	798.6	799.4	819.4	852.8	912.4	1009.5
25°	953.2	952.4	908.6	872.4	851.5	846.9	860.3	888.6	937.0	1036.6
27.5°	1082.4	1076.2	1032.4	978.2	932.8	926.1	923.2	935.3	972.0	1072.4
30°	1228.3	1222.5	1175.4	1104.5	1041.6	1030.7	1003.2	997.0	1024.1	1121.2
32.5°	1388.4	1384.6	1328.3	1242.5	1158.3	1145.8	1099.5	1082.8	1104.1	1195.0
35°	1522.6	1519.2	1472.6	1384.2	1281.2	1265.8	1218.7	1200.0	1210.8	1289.6
37.5°	1643.9	1642.2	1602.2	1532.6	1426.3	1407.5	1354.6	1348.3	1346.3	1414.2
40°	1756.4	1752.2	1710.5	1673.9	1595.1	1578.0	1531.3	1525.9	1510.1	1567.6
42.5°	1881.0	1870.2	1809.7	1792.7	1771.4	1757.2	1729.3	1730.1	1695.1	1740.6
45°	1982.7	1976.5	1914.4	1904.4	1927.3	1921.4	1945.6	1951.9	1883.9	1921.9
47.5°	2091.9	2086.1	2033.6	2026.5	2088.6	2090.2	2175.7	2177.8	2068.2	2110.3
50°	2226.5	2218.2	2166.1	2174.9	2244.5	2250.7	2407.0	2392.8	2237.8	2301.6
52.5°	2315.3	2320.3	2309.1	2323.2	2418.3	2424.1	2634.6	2598.3	2405.8	2490.4
55°	2380.8	2390.8	2425.8	2458.3	2601.7	2607.5	2849.2	2793.8	2545.0	2665.4
57.5°	2464.9	2450.8	2516.2	2579.6	2775.9	2791.3	3058.1	2982.2	2668.3	2816.3
60°	2585.8	2575.8	2626.7	2720.4	2970.9	2995.5	3279.0	3151.8	2758.8	2935.9
62.5°	2830.9	2805.9	2813.8	2896.8	3216.9	3249.4	3528.2	3299.8	2803.8	2982.6
65°	3197.3	3154.3	3114.3	3171.8	3563.2	3595.3	3809.5	3416.1	2787.1	2892.2
67.5°	3658.7	3616.1	3567.0	3621.2	4073.4	4098.8	4156.7	3481.5	2655.8	2543.7
70°	4039.2	4023.4	4082.1	4305.1	4888.2	4889.1	4601.9	3427.3	2296.1	1803.5
72.5°	3988.8	3979.2	4288.9	4978.2	5915.2	5893.1	5023.3	3017.2	1546.7	813.6
75°	3272.3	3334.4	3814.1	4966.2	6284.1	6281.2	4765.3	1918.1	639.8	337.2
77.5°	1754.7	1853.1	2476.2	3666.6	4905.7	4979.5	3350.2	671.0	274.7	215.9
80°	572.3	658.1	987.0	1866.8	3187.7	3173.9	1435.9	263.4	188.0	153.0
82.5°	243.0	253.0	441.0	881.5	1635.9	1610.5	457.2	151.3	132.1	104.6
85°	95.0	106.3	194.6	407.6	708.6	693.1	165.1	75.0	84.6	68.4
87.5°	31.3	37.9	69.6	139.6	220.5	212.6	40.4	25.8	36.7	31.3
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°
1027.4	0°	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4
1030.3	2.5°	1036.2	1042.8	1050.8	1062.4	1072.4	1080.8	1089.5	1094.9	1097.0	1103.3
1032.0	5°	1043.7	1058.3	1077.8	1097.0	1115.8	1127.0	1137.0	1142.0	1146.6	1149.9
1036.6	7.5°	1056.2	1074.9	1105.8	1130.8	1146.6	1155.8	1162.5	1160.8	1162.5	1163.3
1041.6	10°	1067.0	1093.3	1129.9	1153.7	1165.8	1166.2	1164.5	1158.7	1155.8	1156.2
1049.1	12.5°	1079.9	1109.1	1148.7	1168.7	1172.0	1162.9	1155.8	1145.8	1142.0	1140.4
1060.3	15°	1097.4	1130.8	1169.1	1176.6	1168.3	1156.6	1144.5	1128.3	1119.9	1113.3
1079.5	17.5°	1118.7	1155.4	1185.0	1179.5	1161.6	1142.4	1122.9	1098.3	1081.2	1074.1
1105.8	20°	1148.3	1181.2	1197.0	1173.3	1146.2	1117.0	1083.7	1053.7	1037.8	1030.7
1139.1	22.5°	1184.1	1215.8	1208.7	1162.5	1124.1	1077.4	1035.7	1013.7	1005.7	1000.7
1182.0	25°	1227.1	1254.1	1217.1	1146.6	1087.8	1024.9	992.8	985.7	982.0	978.2
1234.6	27.5°	1282.9	1297.5	1223.3	1123.3	1031.2	969.1	957.4	958.6	957.4	951.1
1307.5	30°	1356.7	1353.8	1229.1	1085.3	966.1	918.6	919.5	924.9	925.7	921.5
1409.2	32.5°	1453.8	1424.2	1232.1	1036.2	904.0	874.4	875.3	881.1	885.3	878.2
1542.2	35°	1571.3	1506.3	1227.5	974.5	856.1	832.3	826.1	827.8	829.0	822.3
1703.5	37.5°	1708.5	1598.4	1207.1	906.1	816.5	791.1	777.7	766.5	759.8	753.6
1886.0	40°	1858.9	1698.9	1169.5	839.4	772.3	747.3	727.3	706.1	683.6	675.2
2079.4	42.5°	2016.5	1802.2	1124.1	775.7	721.5	701.1	679.8	649.0	615.2	598.1
2280.3	45°	2179.9	1908.1	1079.5	712.7	669.4	660.6	636.0	598.9	562.3	540.6
2481.6	47.5°	2339.9	2008.1	1014.1	649.4	620.6	630.2	611.0	576.8	536.0	501.8
2681.3	50°	2492.9	2101.9	907.0	585.2	581.0	621.0	602.7	553.5	506.8	463.1
2877.2	52.5°	2644.6	2177.8	769.8	526.8	559.8	618.5	591.9	537.7	480.6	434.7
3061.4	55°	2773.4	2217.0	637.7	476.8	528.9	597.3	578.9	518.9	443.5	394.7
3187.7	57.5°	2846.7	2185.3	527.7	427.6	486.4	562.3	556.8	478.9	399.3	361.8
3212.3	60°	2815.1	2056.9	437.6	384.7	446.0	524.3	518.5	439.3	365.5	330.1
3080.6	62.5°	2640.4	1812.2	366.4	347.2	409.3	485.6	480.2	408.9	339.7	305.5
2730.9	65°	2288.6	1474.2	310.9	315.9	372.2	438.9	446.8	383.5	319.3	285.9
2112.8	67.5°	1745.6	1067.8	267.6	288.8	335.9	393.0	416.0	365.1	302.2	270.5
1222.5	70°	994.9	606.4	230.9	262.6	303.8	350.5	392.2	350.5	283.8	257.6
458.1	72.5°	377.2	278.4	199.6	236.3	273.0	314.7	365.9	327.6	262.6	243.0
236.7	75°	201.3	169.6	168.0	205.5	237.6	279.7	333.0	305.1	246.7	256.7
163.8	77.5°	137.1	120.0	140.5	175.9	198.8	240.9	298.0	270.9	213.8	213.0
113.4	80°	95.0	85.0	114.2	141.7	153.8	202.6	260.1	232.6	174.2	162.6
70.0	82.5°	57.1	55.4	85.4	105.9	108.8	156.3	215.5	195.1	142.5	124.2
41.7	85°	31.3	32.9	54.6	62.1	63.4	109.2	168.8	150.9	109.6	92.1
15.0	87.5°	8.8	11.3	20.0	24.6	30.4	56.7	100.4	89.6	55.0	38.3
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>
1027.4
1102.9
1150.8
1164.5
1157.0
1139.5
1115.4
1074.5
1029.9
1001.6
978.2
952.4
923.6
881.5
826.9
757.7
679.0
600.2
538.9
498.1
459.3
429.7
390.5
356.8
325.1
300.1
280.5
265.5
254.2
239.7
<i>265.1</i>
196.3
155.5
125.0
92.9
38.3
0.0

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