

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: P947852

Luminaire Tested: **GALN-SB3A-827-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3A-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

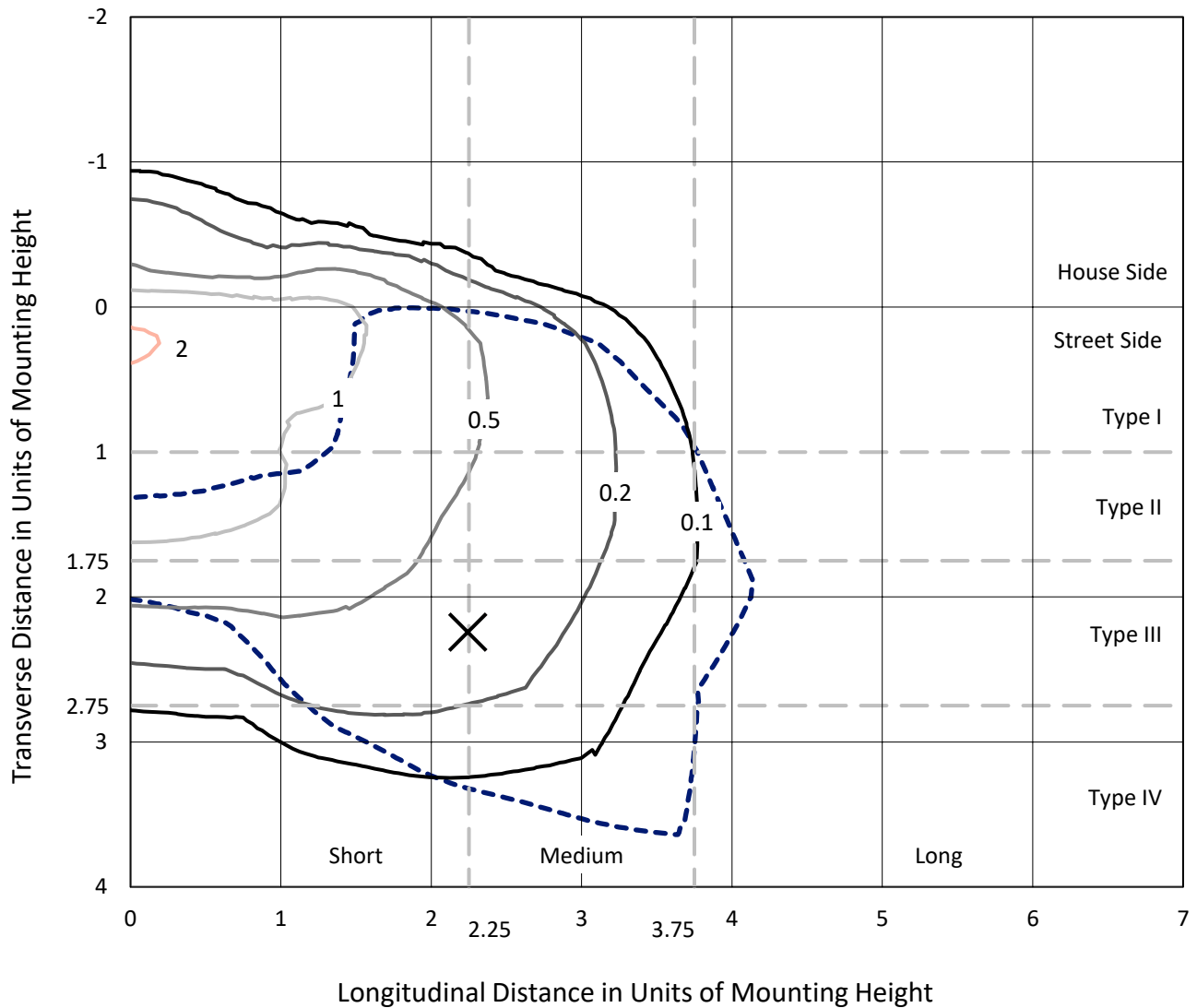
Lumens per Lamp: N/A  
Luminaire Lumens: 9015 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

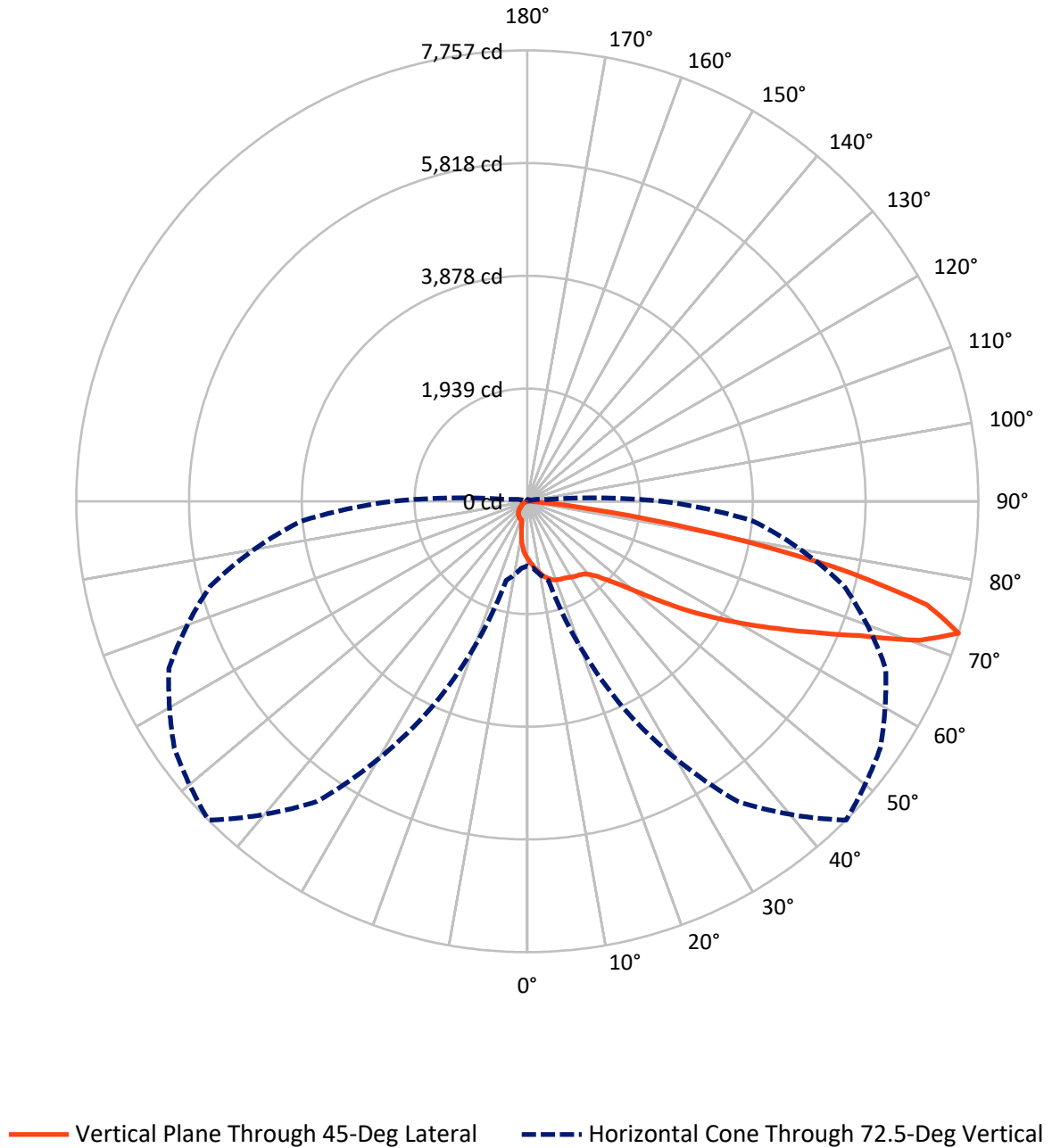
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	947.2	0.0	947.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	8067.8	0.0	8067.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	9015.0	0.0	9015.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.1	1.0
10°-20°	272.0	3.0
20°-30°	446.6	5.0
30°-40°	633.4	7.0
40°-50°	1046.9	11.6
50°-60°	1880.6	20.9
60°-70°	2611.4	29.0
70°-80°	1894.2	21.0
80°-90°	136.9	1.5
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°	9015.0	100.0
0°-180°	9015.0	100.0

**Coefficient of Utilization**



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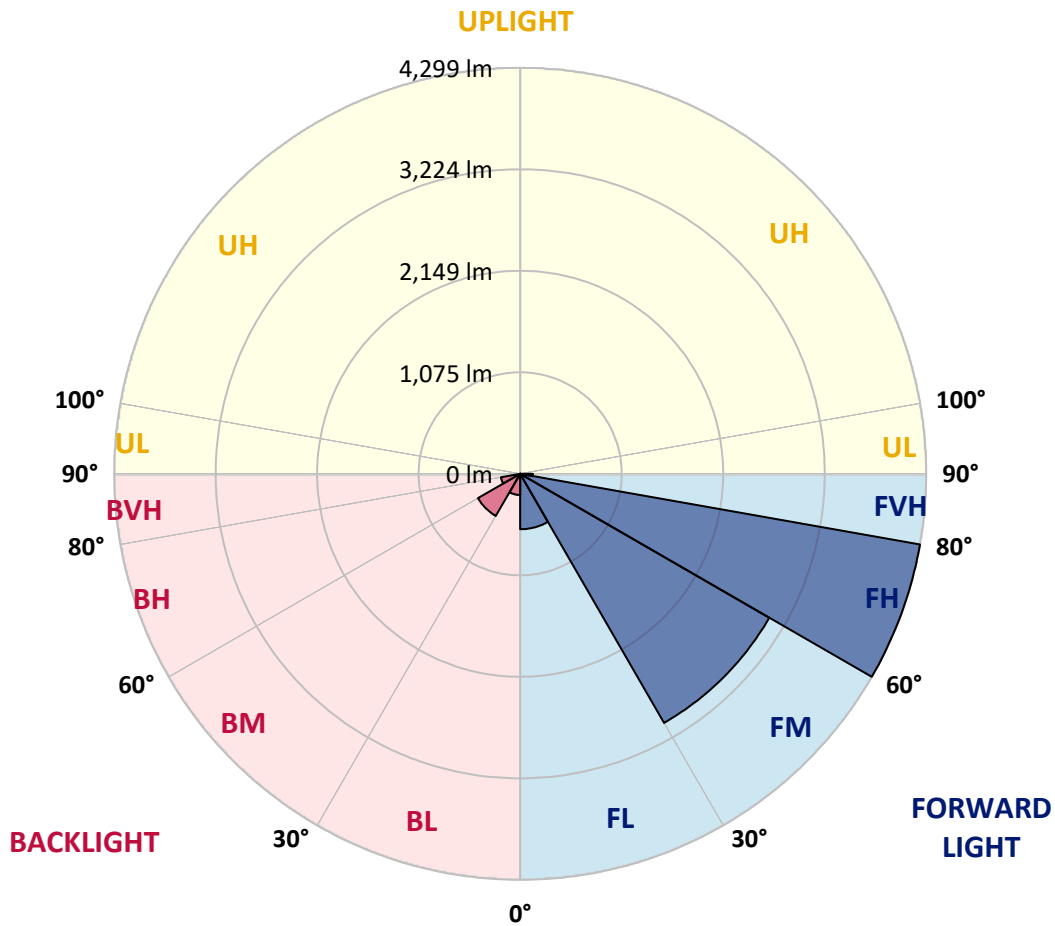
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	587.2	6.5			
FM (30°-60°)	3045.7	33.8			
FH (60°-80°)	4299.0	47.7			G2/5000
FVH (80°-90°)	135.8	1.5			G2/225
BL (0°-30°)	224.4	2.5	B1/500		
BM (30°-60°)	515.2	5.7	B1/1000		
BH (60°-80°)	206.6	2.3	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
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°	45°	46°	55°	65°	75°
0°	987.6	987.6	987.6	987.6	987.6	987.6	987.6	987.6	987.6	987.6
2.5°	1078.7	1080.5	1079.3	1071.9	1059.6	1052.8	1049.1	1036.8	1028.8	1014.7
5°	1177.8	1185.1	1180.8	1166.1	1142.7	1126.1	1121.1	1095.9	1073.1	1046.7
7.5°	1283.0	1286.7	1278.7	1259.6	1228.2	1199.9	1195.6	1160.5	1124.2	1083.6
10°	1374.0	1378.4	1366.0	1338.4	1302.7	1267.6	1261.4	1222.7	1179.6	1129.8
12.5°	1450.3	1454.7	1438.7	1405.4	1366.0	1329.7	1323.6	1283.0	1235.6	1180.2
15°	1508.2	1516.2	1494.6	1459.0	1416.5	1380.2	1377.1	1337.1	1291.0	1229.4
17.5°	1542.0	1550.0	1529.7	1486.6	1450.3	1419.6	1415.9	1382.7	1339.6	1280.5
20°	1547.6	1555.0	1533.4	1495.9	1465.7	1441.1	1439.3	1415.3	1383.9	1327.3
22.5°	1531.0	1540.2	1520.5	1490.3	1469.4	1456.5	1454.0	1440.5	1422.7	1374.7
25°	1513.7	1521.1	1506.3	1479.9	1468.8	1467.6	1469.4	1467.0	1463.3	1422.7
27.5°	1512.5	1520.5	1503.9	1478.6	1472.5	1485.4	1487.3	1499.0	1502.0	1466.3
30°	1523.0	1528.5	1512.5	1486.0	1483.0	1512.5	1513.1	1534.0	1539.0	1503.3
32.5°	1545.7	1551.9	1535.9	1497.1	1492.8	1534.0	1535.9	1563.6	1571.6	1542.6
35°	1599.3	1606.6	1588.2	1527.9	1512.5	1554.3	1559.9	1592.5	1608.5	1584.5
37.5°	1732.8	1711.2	1686.0	1590.0	1557.4	1586.3	1595.6	1633.7	1662.0	1634.3
40°	2064.4	1996.8	1918.0	1695.9	1636.2	1654.6	1662.0	1700.2	1738.9	1711.9
42.5°	2562.3	2482.3	2355.5	1939.5	1754.9	1764.2	1769.7	1802.9	1857.7	1836.2
45°	3005.9	2977.0	2847.8	2355.5	1977.1	1931.5	1938.3	1955.5	2036.1	2028.1
47.5°	3346.8	3330.2	3230.5	2833.0	2352.4	2136.4	2155.5	2163.5	2279.8	2308.1
50°	3608.9	3602.8	3513.6	3257.6	2842.8	2438.6	2445.3	2428.1	2602.3	2672.4
52.5°	3856.3	3877.2	3811.4	3652.0	3366.5	2834.2	2833.0	2751.8	2986.8	3092.7
55°	4079.7	4087.1	4093.8	4054.4	3893.2	3284.7	3273.0	3140.1	3433.0	3542.5
57.5°	4289.5	4292.6	4352.9	4433.5	4441.5	3768.3	3746.8	3587.4	3920.3	3998.4
60°	4430.4	4444.6	4571.9	4795.9	4893.8	4267.3	4255.7	4093.2	4416.3	4452.6
62.5°	4227.4	4313.5	4634.7	5079.0	5320.8	4820.5	4815.0	4662.4	4938.1	4908.5
65°	3421.9	3567.7	4132.6	5270.3	5739.8	5438.3	5446.3	5283.9	5474.0	5378.0
67.5°	2393.7	2547.5	3215.7	5285.7	6208.1	6163.8	6210.0	5955.2	6043.2	5827.8
70°	1655.3	1734.6	2169.7	4954.7	6573.0	7163.1	7161.9	6779.8	6609.3	6032.7
72.5°	1113.1	1154.4	1409.1	3930.8	6304.7	7756.9	7721.2	7409.9	6800.1	5642.0
75°	469.5	499.7	652.3	2209.1	4987.9	7096.7	7000.0	6548.4	6042.0	4442.7
77.5°	148.9	161.8	257.2	790.7	2747.5	5334.3	5232.2	4089.5	4049.5	2228.7
80°	70.8	82.5	144.6	317.5	1081.1	2901.3	2887.2	1855.2	1742.0	601.8
82.5°	30.8	36.3	80.0	169.8	483.7	1035.0	1055.9	631.3	522.4	228.3
85°	9.8	12.9	36.9	78.1	204.3	257.2	254.1	150.1	210.4	124.3
87.5°	0.0	0.0	12.3	17.8	20.9	14.8	16.6	12.9	58.5	34.5
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°
987.6	0°	987.6	987.6	987.6	987.6	987.6	987.6	987.6	987.6	987.6	987.6
999.9	2.5°	992.5	982.7	965.5	949.5	935.3	921.2	912.5	900.2	899.0	899.0
1015.9	5°	999.3	983.3	952.5	919.9	882.4	846.7	811.0	776.6	765.5	757.5
1041.8	7.5°	1019.0	993.8	945.2	883.0	811.6	733.5	678.7	619.6	596.9	584.6
1076.2	10°	1047.3	1012.8	939.0	830.1	714.4	608.0	529.8	465.8	441.2	430.7
1113.8	12.5°	1078.7	1036.2	927.9	764.2	608.0	480.6	404.3	374.7	371.0	371.0
1158.7	15°	1116.2	1064.5	908.8	686.7	496.6	380.3	353.2	354.4	358.1	360.6
1202.4	17.5°	1155.0	1094.7	878.7	600.0	398.1	342.1	342.7	344.6	347.7	350.1
1249.7	20°	1196.8	1124.8	838.7	507.7	341.5	331.1	332.9	334.7	337.2	338.4
1294.0	22.5°	1241.7	1153.1	791.3	417.2	322.4	321.8	322.4	324.3	327.4	327.4
1345.7	25°	1289.7	1184.5	737.2	351.4	312.6	312.6	313.8	315.1	317.5	317.5
1395.6	27.5°	1339.0	1213.4	679.9	316.9	304.0	303.4	303.4	305.2	306.4	307.1
1444.8	30°	1393.1	1247.3	622.7	309.5	297.2	294.1	292.3	293.5	294.7	295.4
1496.5	32.5°	1448.5	1279.9	571.6	312.6	290.4	284.9	278.7	277.5	277.5	280.0
1550.0	35°	1510.0	1315.6	532.3	323.1	286.7	271.4	261.5	256.0	256.6	260.3
1614.0	37.5°	1583.9	1358.7	503.3	332.3	284.3	256.0	240.0	233.2	228.9	233.2
1702.0	40°	1680.5	1422.0	482.4	339.7	281.2	238.1	216.6	205.5	197.5	200.0
1838.6	42.5°	1822.6	1521.7	474.4	340.3	274.4	217.2	192.6	177.8	166.1	166.8
2044.1	45°	2022.0	1679.2	515.7	332.3	259.7	194.4	167.4	147.7	140.3	138.5
2351.2	47.5°	2295.2	1908.8	611.0	315.7	238.1	172.3	142.8	126.1	120.6	117.5
2754.2	50°	2661.3	2203.5	716.9	297.2	216.6	151.4	122.5	112.0	108.3	105.2
3232.4	52.5°	3085.9	2502.6	803.6	278.7	195.1	132.9	109.5	103.4	100.3	97.8
3693.9	55°	3475.4	2708.7	798.7	259.1	174.1	118.1	100.3	96.6	92.9	90.5
4091.4	57.5°	3717.9	2737.6	658.4	237.5	150.1	106.5	91.7	89.2	84.9	81.8
4435.3	60°	3829.2	2572.7	461.5	209.2	126.1	95.4	82.5	81.2	75.7	71.4
4760.8	62.5°	3849.5	2266.3	307.7	174.1	105.2	84.9	73.2	71.4	64.0	56.6
5025.4	65°	3767.1	1828.2	212.9	136.0	89.8	73.8	62.8	59.1	51.1	43.7
5088.2	67.5°	3506.2	1283.6	148.3	97.8	76.3	58.5	49.8	48.6	42.5	36.3
4768.2	70°	3028.1	731.6	99.1	73.2	60.3	40.0	39.4	40.6	34.5	29.5
3895.7	72.5°	2321.7	334.7	61.5	53.5	41.2	27.1	31.4	32.0	26.5	22.2
2430.6	75°	1366.7	143.4	38.8	34.5	20.9	17.8	22.8	23.4	17.8	14.2
888.5	77.5°	465.2	54.1	24.6	20.3	10.5	9.8	14.8	14.8	9.8	5.5
178.4	80°	105.8	20.3	12.3	8.0	4.9	4.3	4.9	4.3	2.5	0.6
54.8	82.5°	30.2	8.0	4.9	3.1	1.8	1.8	0.6	0.0	0.0	0.0
19.1	85°	8.6	3.7	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
6.8	87.5°	3.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
987.6
902.1
761.2
586.4
430.7
371.0
360.6
350.1
339.0
328.6
318.1
307.7
296.6
281.8
262.1
232.0
198.8
164.3
136.0
115.7
104.6
97.2
89.2
81.2
70.1
52.9
41.2
34.5
27.1
19.7
12.3
4.3
0.0
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