

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: P946166

Luminaire Tested: **GALN-SB1D-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5246 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

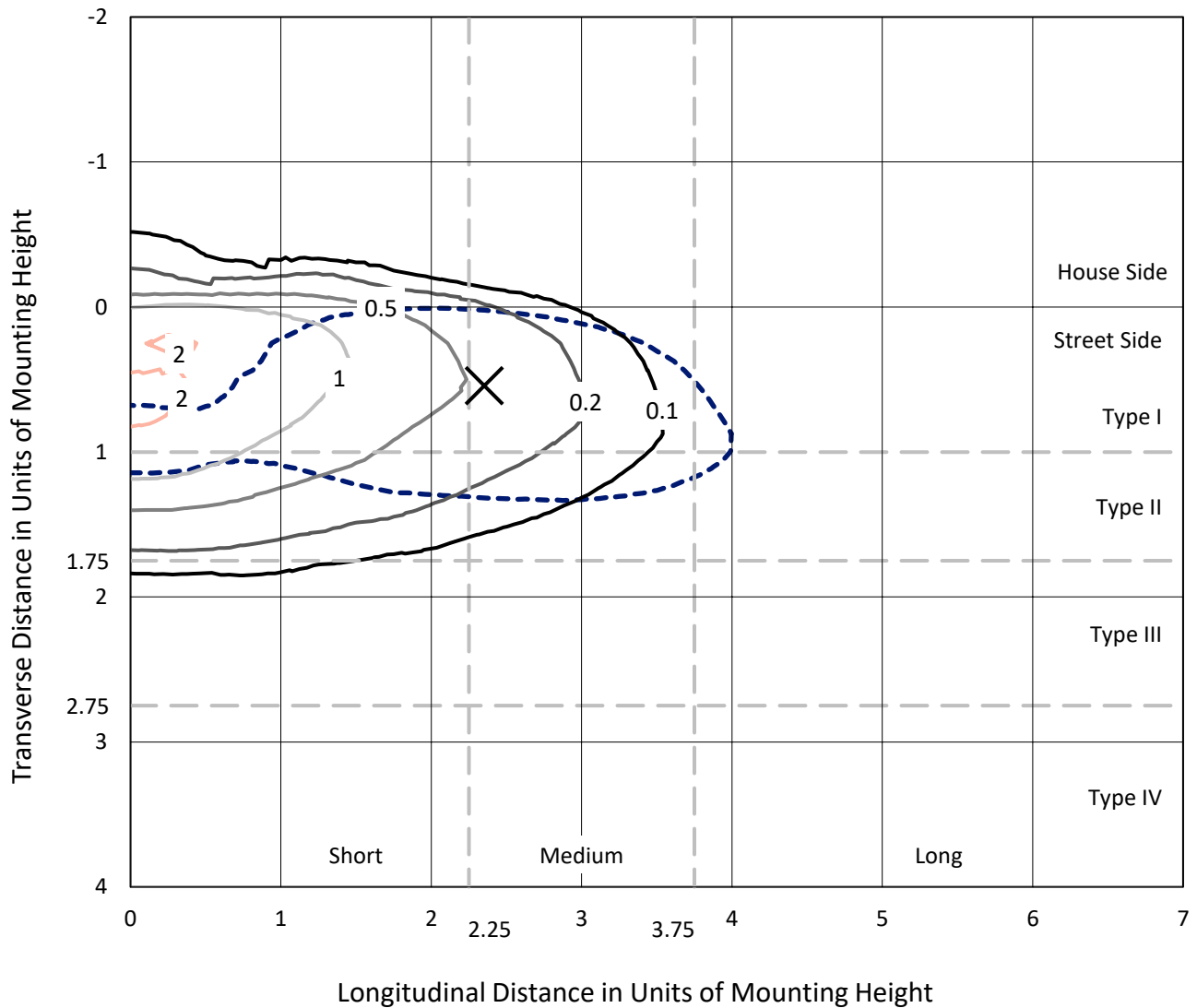
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

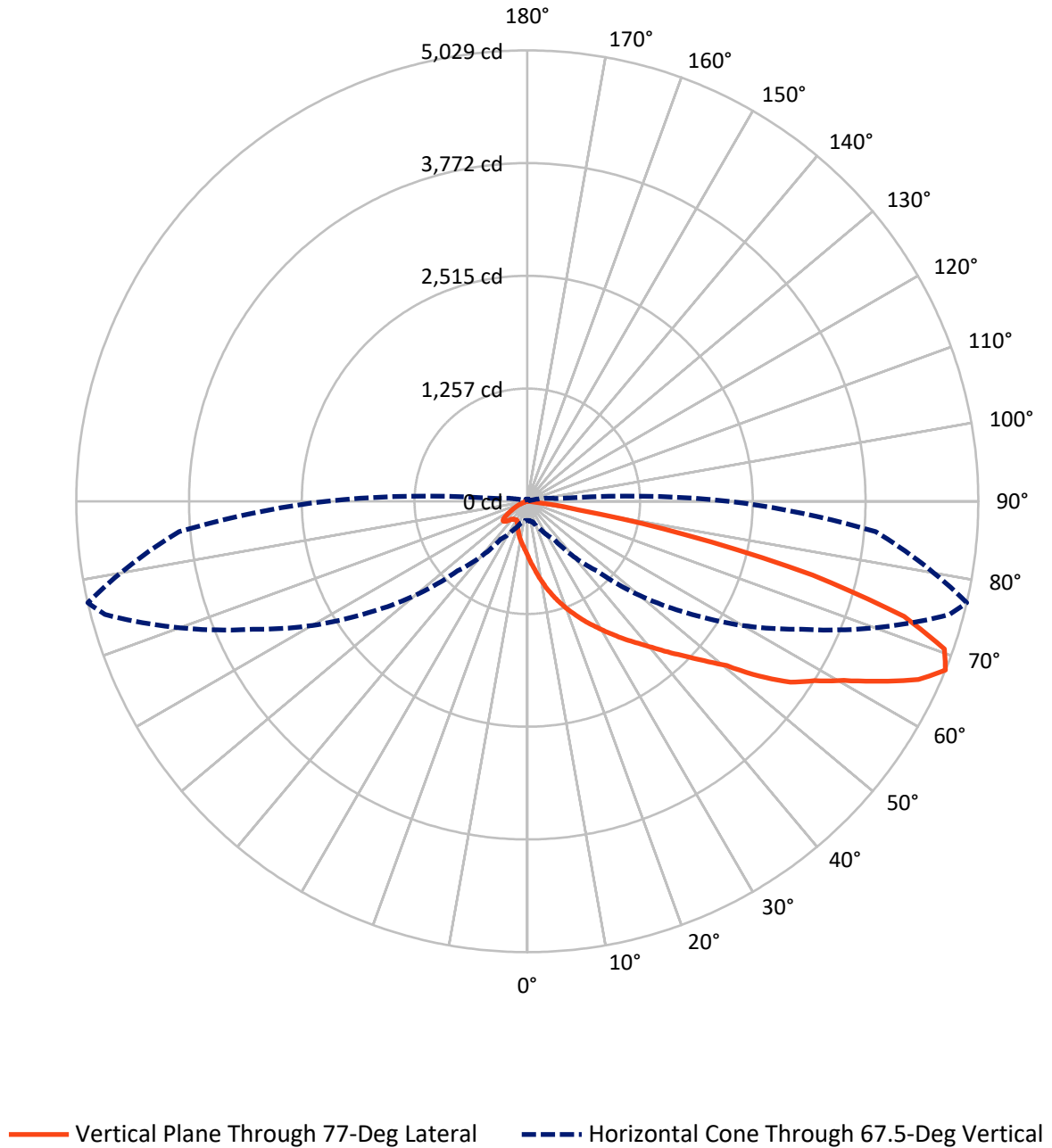
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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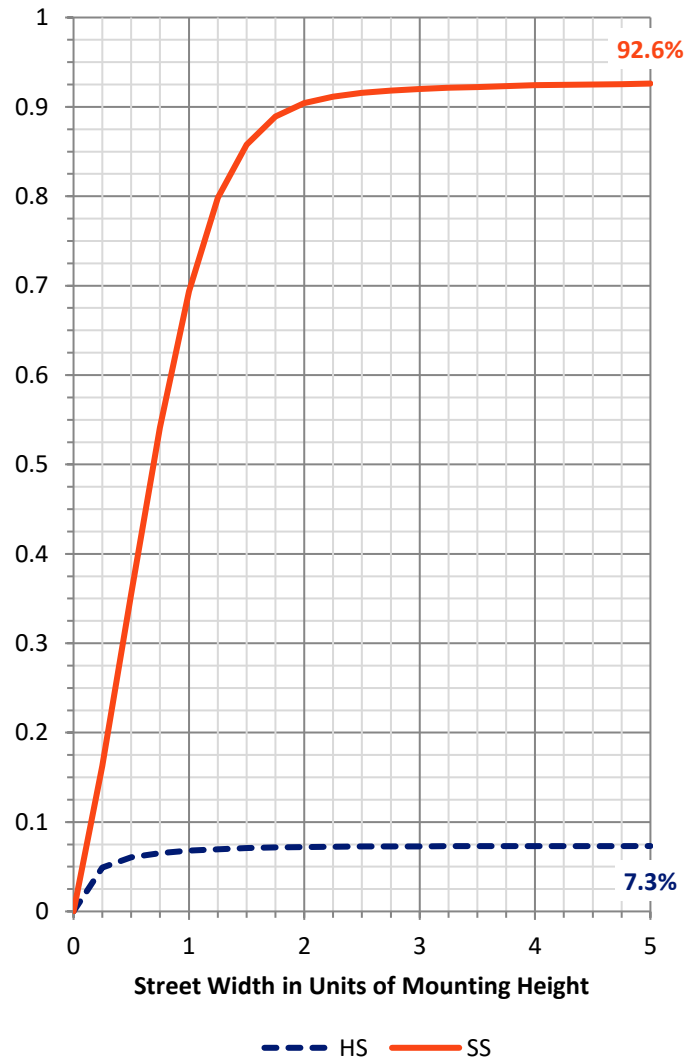
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	386.0	0.0	386.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	4860.1	0.0	4860.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	5246.0	0.0	5246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	1.2
10°-20°	216.2	4.1
20°-30°	417.2	8.0
30°-40°	724.4	13.8
40°-50°	1051.7	20.0
50°-60°	1207.8	23.0
60°-70°	1048.6	20.0
70°-80°	493.9	9.4
80°-90°	24.4	0.5
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°	5246.0	100.0
0°-180°	5246.0	100.0

Coefficient of Utilization



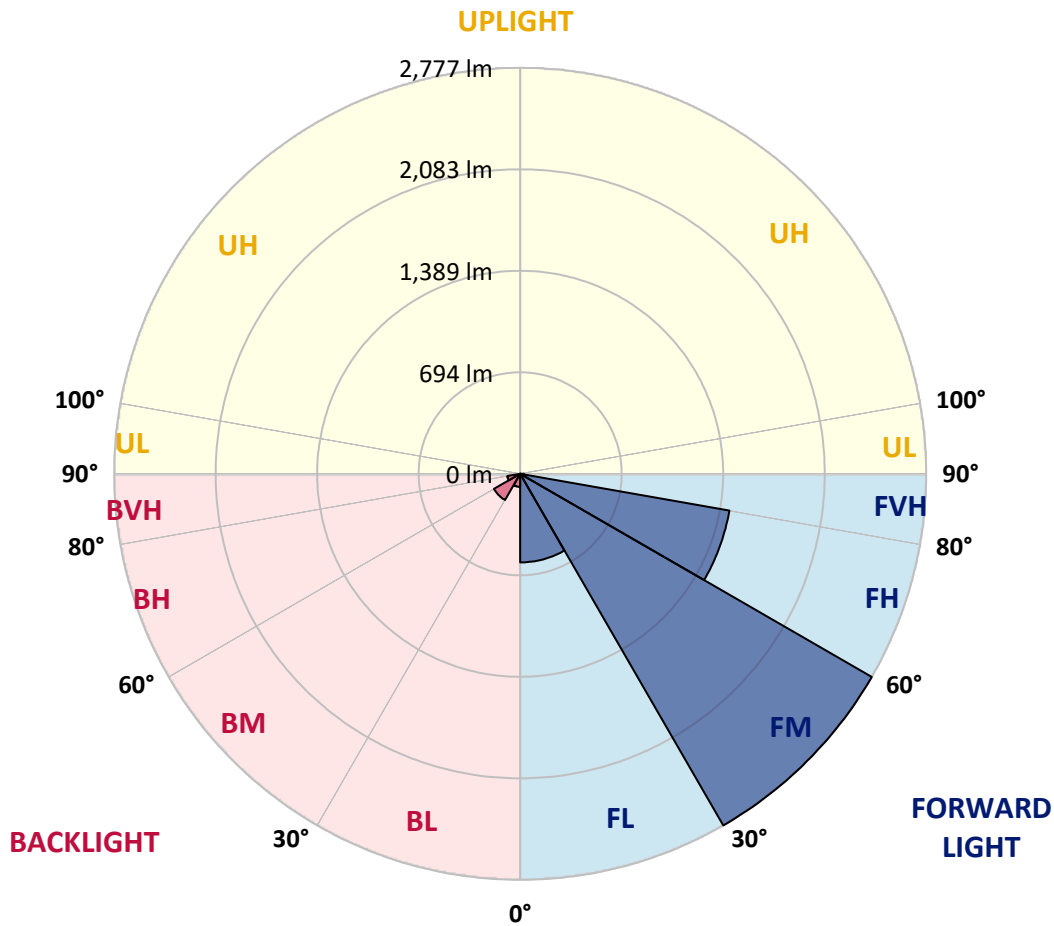
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.9	11.5			
FM (30°-60°)	2777.1	52.9			
FH (60°-80°)	1453.1	27.7			G1/1800
FVH (80°-90°)	24.0	0.5			G1/100
BL (0°-30°)	89.4	1.7	B0/110		
BM (30°-60°)	206.8	3.9	B0/220		
BH (60°-80°)	89.4	1.7	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	604.9	604.9	604.9	604.9	604.9	604.9	604.9	604.9	604.9	604.9
2.5°	837.5	842.7	835.3	820.9	799.4	785.4	751.2	719.0	683.1	671.7
5°	1020.9	1025.5	1017.0	1001.4	972.7	945.4	900.4	833.0	762.9	740.5
7.5°	1156.8	1159.4	1156.1	1141.8	1114.4	1083.5	1033.3	953.5	849.6	824.8
10°	1254.5	1263.0	1262.0	1256.5	1238.2	1213.1	1159.7	1068.8	946.7	914.7
12.5°	1319.3	1328.8	1334.3	1346.7	1345.7	1329.8	1282.9	1186.8	1043.4	1006.0
15°	1338.2	1348.3	1369.5	1398.2	1423.6	1431.7	1398.8	1302.4	1149.9	1102.1
17.5°	1327.5	1343.1	1368.5	1413.8	1469.5	1506.3	1502.7	1414.1	1246.7	1192.0
20°	1351.3	1366.2	1386.1	1424.2	1489.1	1555.8	1582.6	1521.0	1342.8	1285.5
22.5°	1482.9	1480.3	1482.2	1488.4	1527.2	1593.3	1648.4	1618.1	1437.9	1379.3
25°	1691.4	1679.6	1659.8	1626.2	1616.4	1648.4	1705.7	1704.1	1538.3	1475.4
27.5°	1930.5	1928.5	1881.9	1801.1	1755.5	1743.2	1770.5	1787.8	1637.6	1570.5
30°	2159.5	2164.7	2101.8	2011.9	1928.2	1879.6	1854.9	1867.3	1738.6	1673.1
32.5°	2358.8	2364.4	2296.0	2190.8	2087.2	2028.5	1976.4	1945.8	1848.7	1777.4
35°	2527.3	2532.8	2454.3	2338.0	2227.6	2174.5	2115.5	2031.8	1959.5	1893.0
37.5°	2677.8	2676.1	2570.9	2453.6	2345.2	2303.1	2272.2	2137.7	2073.5	2009.3
40°	2766.7	2773.5	2683.6	2554.3	2449.1	2418.5	2416.5	2268.9	2205.1	2142.9
42.5°	2792.8	2804.8	2739.7	2633.5	2538.0	2504.8	2555.9	2411.0	2358.2	2297.6
45°	2745.9	2757.6	2727.9	2654.3	2598.6	2577.1	2675.8	2558.2	2521.7	2461.8
47.5°	2609.0	2623.7	2630.9	2615.2	2614.6	2636.4	2783.3	2713.3	2715.9	2654.6
50°	2344.2	2368.9	2434.7	2490.1	2575.8	2683.3	2887.9	2881.4	2934.8	2882.0
52.5°	1862.7	1897.9	2124.6	2276.1	2468.6	2674.5	3002.9	3151.1	3318.9	3241.7
55°	1496.9	1496.9	1681.3	1964.7	2259.5	2616.5	3053.0	3326.4	3580.5	3562.2
57.5°	1220.3	1235.0	1352.6	1603.1	1956.9	2478.4	3084.0	3436.5	3791.2	3777.9
60°	753.2	784.8	1006.9	1254.2	1612.5	2232.5	3064.4	3547.9	4046.9	4057.7
62.5°	424.1	435.9	534.9	902.4	1253.9	1901.8	2914.9	3610.1	4374.0	4419.6
65°	292.9	298.7	336.8	561.6	869.1	1514.1	2622.7	3571.3	4701.7	4793.9
67.5°	212.7	215.7	239.4	343.0	515.7	1097.8	2164.7	3375.9	4875.4	5029.4
70°	163.5	165.5	182.8	225.4	304.6	677.6	1572.1	2987.2	4749.6	4933.7
72.5°	132.9	134.9	148.2	166.8	202.0	400.7	952.9	2426.0	4194.5	4393.2
75°	112.1	114.7	126.7	138.8	158.3	257.4	446.9	1689.4	3154.4	3284.7
77.5°	62.2	57.3	102.9	115.0	133.6	162.9	209.1	994.2	1766.6	1802.8
80°	38.8	40.1	81.8	92.5	102.6	82.1	95.8	382.8	612.4	581.8
82.5°	2.3	5.2	62.9	66.8	70.4	35.2	36.2	130.0	147.6	135.5
85°	0.0	0.0	28.7	23.1	24.4	10.1	10.4	30.3	19.9	21.5
87.5°	0.0	0.0	0.0	0.7	0.0	1.0	2.0	2.6	1.0	1.3
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°
604.9	0°	604.9	604.9	604.9	604.9	604.9	604.9	604.9	604.9	604.9	604.9
635.9	2.5°	613.1	590.3	544.0	498.7	461.9	427.7	403.3	380.2	368.4	367.8
676.9	5°	631.7	583.8	491.2	409.5	343.7	290.9	256.7	232.3	219.9	215.7
727.4	7.5°	657.7	585.7	445.0	331.3	253.8	208.5	188.9	181.1	178.5	175.6
784.4	10°	690.6	590.3	403.6	266.8	200.0	177.2	169.4	166.1	164.2	162.2
848.6	12.5°	727.4	594.5	362.6	221.5	175.9	164.2	158.6	154.7	152.1	149.9
914.4	15°	763.3	597.1	319.9	189.9	163.5	154.1	148.2	144.0	140.4	137.8
978.9	17.5°	798.8	600.7	279.8	171.0	153.4	144.0	138.1	132.9	130.0	127.0
1046.7	20°	838.2	600.1	242.0	157.7	143.3	133.9	127.7	122.8	119.9	116.6
1118.3	22.5°	874.7	596.8	208.8	146.3	132.9	123.8	116.9	112.1	109.1	106.5
1191.6	25°	916.7	594.2	181.1	135.8	123.1	114.0	106.5	102.0	98.7	96.4
1265.3	27.5°	957.1	590.3	160.9	126.4	113.7	104.9	97.7	92.5	89.6	88.0
1341.2	30°	996.8	589.3	153.4	117.3	105.2	96.4	89.3	84.4	82.1	81.4
1424.6	32.5°	1044.7	591.9	156.7	114.0	97.4	88.6	81.8	78.2	75.9	75.9
1517.4	35°	1095.9	591.3	161.6	116.9	92.2	80.8	75.6	73.3	71.0	71.0
1620.3	37.5°	1160.0	592.2	165.5	121.8	90.2	74.3	71.3	68.4	67.1	67.1
1733.1	40°	1255.8	624.5	163.5	126.1	89.6	69.7	63.8	62.9	61.9	61.9
1860.4	42.5°	1373.1	694.5	166.1	126.4	89.3	66.5	58.6	60.6	58.3	58.0
2004.1	45°	1501.4	771.1	182.8	119.6	88.9	64.8	56.0	58.3	54.7	54.7
2170.6	47.5°	1628.8	847.0	199.7	109.8	88.0	64.5	53.8	52.4	51.5	51.8
2387.5	50°	1804.4	908.9	206.2	96.4	85.7	63.8	49.5	49.8	49.2	49.8
2693.4	52.5°	1995.6	921.9	198.4	81.4	79.2	61.9	46.6	47.9	47.6	48.2
2908.7	55°	2114.8	907.9	163.9	67.8	69.1	54.1	43.7	46.3	46.3	46.3
3119.2	57.5°	2238.0	848.3	116.3	55.1	57.3	44.3	41.0	44.6	44.3	44.0
3372.6	60°	2326.6	751.9	76.6	45.3	45.6	36.5	38.1	42.0	41.7	40.1
3633.9	62.5°	2392.7	645.3	49.2	38.4	34.9	32.9	34.9	38.1	36.8	33.2
3855.4	65°	2385.2	497.8	37.8	32.9	28.7	28.7	30.3	33.2	29.3	23.5
3897.7	67.5°	2246.1	336.8	31.3	27.7	24.1	23.8	25.1	27.7	25.1	19.9
3680.8	70°	1997.6	220.2	25.1	21.5	19.2	17.6	20.2	23.8	21.2	16.0
3133.5	72.5°	1621.3	134.2	18.9	15.6	14.0	11.4	16.0	19.5	16.9	11.7
2179.0	75°	1049.0	68.4	13.0	10.1	7.5	6.8	11.7	14.7	11.7	7.2
966.9	77.5°	401.3	28.7	7.2	4.6	3.9	3.3	6.5	8.8	4.9	1.6
187.3	80°	77.2	12.1	3.6	2.3	2.0	1.3	1.0	0.7	0.0	0.0
33.2	82.5°	13.4	3.9	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
6.5	85°	4.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.3	87.5°	1.6	0.0	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>
604.9
367.1
215.0
174.9
161.6
149.2
137.5
126.7
116.3
106.2
96.1
88.0
81.1
75.9
71.0
67.1
61.9
57.7
54.7
51.8
49.8
48.2
46.3
44.0
40.1
32.6
22.8
19.2
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