

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: P946074

Luminaire Tested: **GALN-SB1D-830-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7413 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

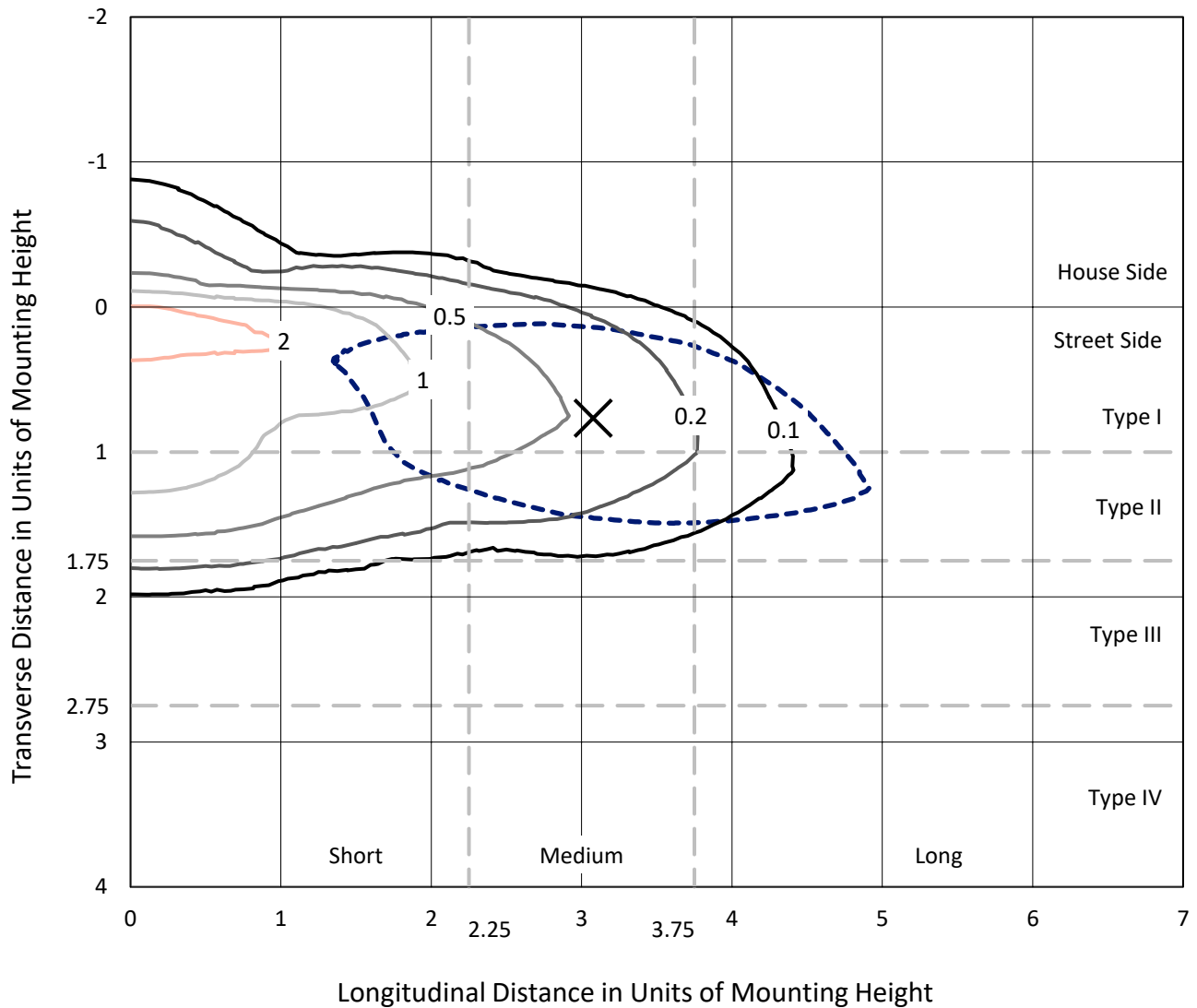
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

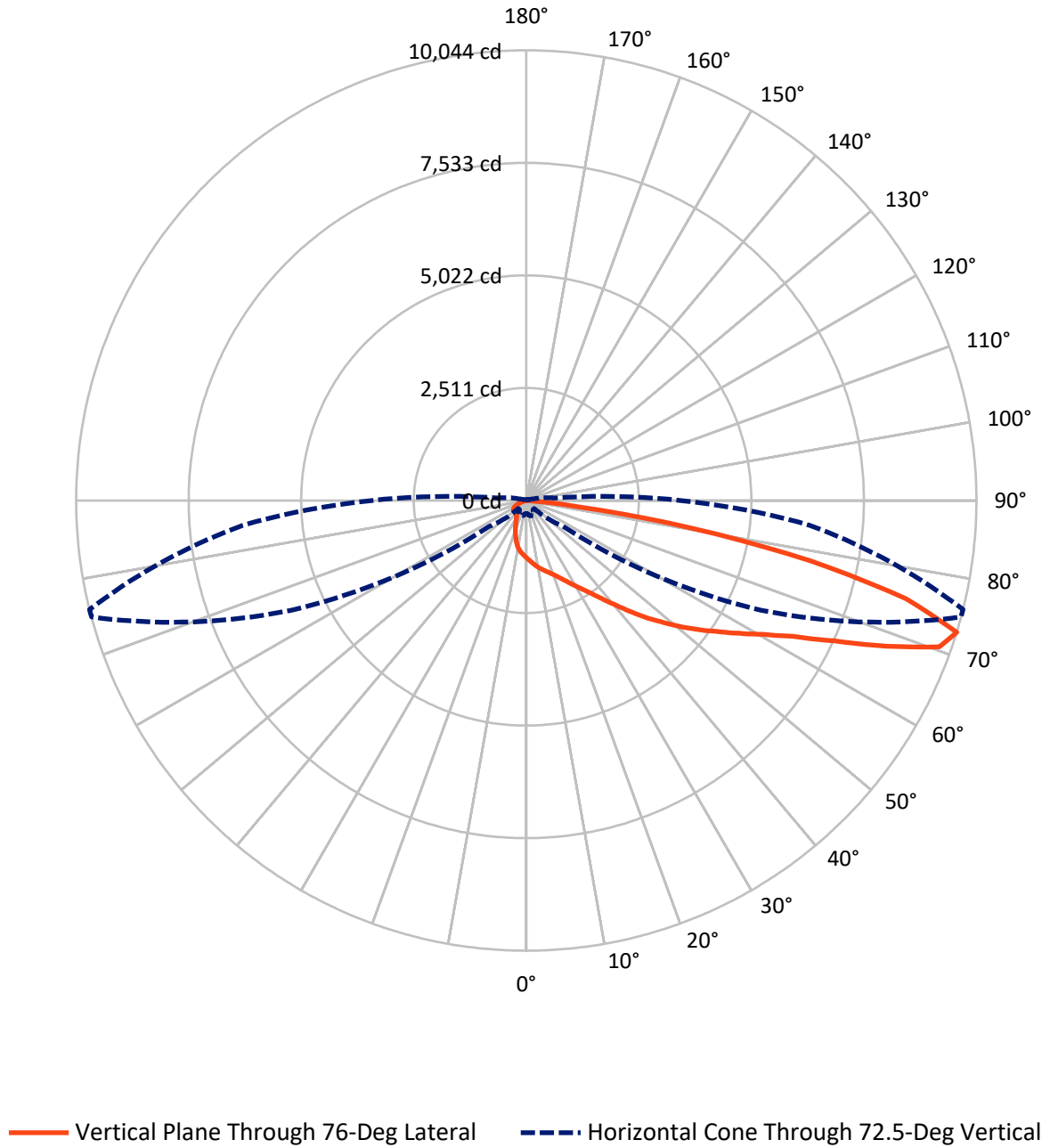
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	758.7	0.0	758.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	6654.3	0.0	6654.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	7413.0	0.0	7413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	1.6
10°-20°	312.4	4.2
20°-30°	494.4	6.7
30°-40°	765.0	10.3
40°-50°	1161.9	15.7
50°-60°	1601.8	21.6
60°-70°	1692.2	22.8
70°-80°	1160.9	15.7
80°-90°	108.0	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°	7413.0	100.0
0°-180°	7413.0	100.0

Coefficient of Utilization



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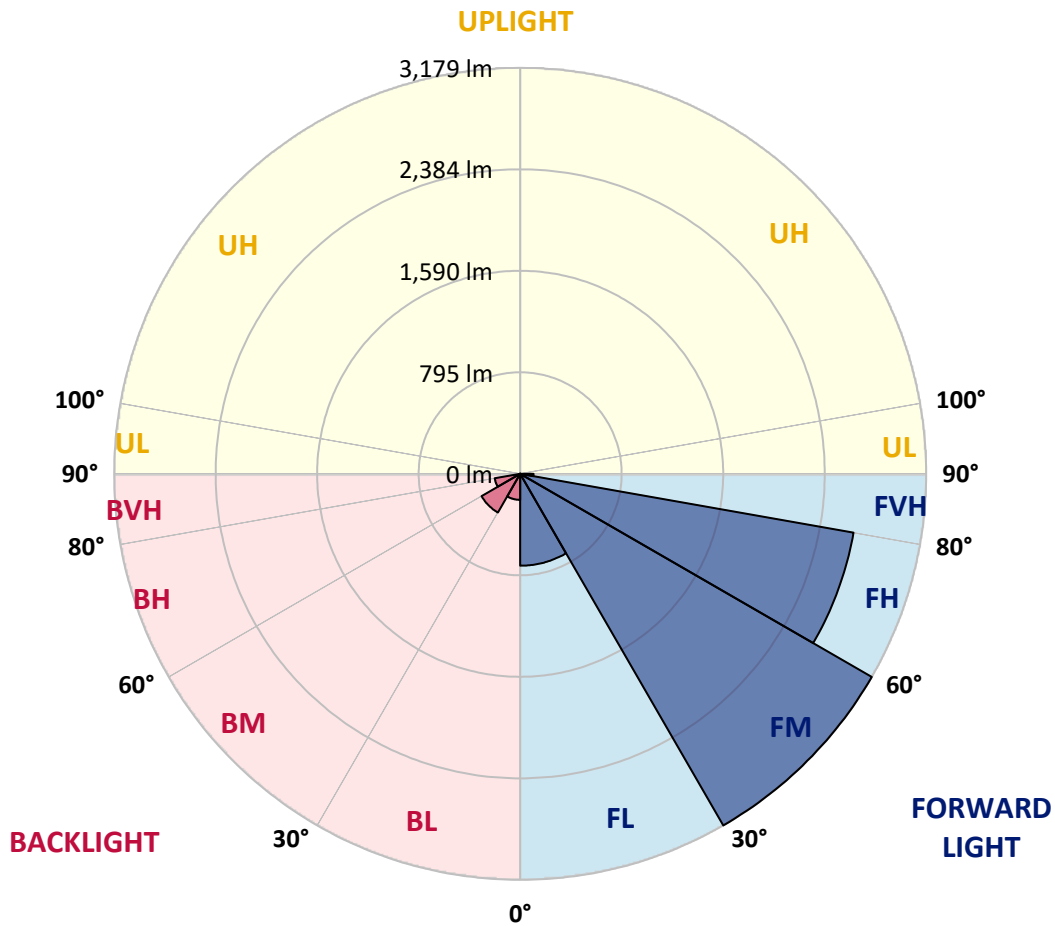
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	719.4	9.7			
FM (30°-60°)	3179.3	42.9			
FH (60°-80°)	2650.5	35.8			G2/5000
FVH (80°-90°)	105.1	1.4			G2/225
BL (0°-30°)	203.9	2.8	B1/500		
BM (30°-60°)	349.3	4.7	B1/1000		
BH (60°-80°)	202.5	2.7	B1/500		G1/500
BVH (80°-90°)	2.9	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0
2.5°	1489.2	1469.5	1473.4	1453.7	1444.5	1422.4	1399.3	1369.0	1335.4	1335.4
5°	1646.0	1633.5	1633.5	1610.4	1592.6	1558.0	1516.7	1463.3	1399.8	1393.6
7.5°	1742.2	1734.5	1739.3	1725.8	1711.4	1675.3	1626.3	1556.6	1466.6	1459.0
10°	1760.9	1760.5	1773.9	1777.8	1787.4	1769.1	1725.4	1645.0	1532.5	1521.5
12.5°	1688.3	1679.2	1712.4	1751.3	1806.1	1830.7	1808.1	1725.8	1592.6	1577.2
15°	1569.1	1571.0	1602.7	1662.8	1754.2	1841.7	1871.1	1804.7	1653.7	1635.4
17.5°	1500.8	1493.6	1521.0	1574.8	1675.8	1799.4	1900.4	1878.3	1718.6	1697.9
20°	1492.6	1492.1	1498.4	1522.9	1599.8	1738.8	1897.0	1949.9	1795.1	1771.0
22.5°	1549.4	1548.4	1543.1	1538.3	1559.5	1679.7	1882.6	2018.2	1886.4	1860.5
25°	1636.4	1634.9	1626.8	1597.4	1576.8	1647.9	1869.1	2081.7	1994.6	1965.8
27.5°	1742.7	1741.7	1726.8	1682.6	1629.2	1650.8	1862.4	2147.1	2119.7	2091.3
30°	1873.0	1871.1	1840.3	1777.8	1708.0	1696.5	1871.5	2220.6	2250.0	2228.3
32.5°	2036.5	2031.2	1990.8	1896.5	1798.9	1757.6	1888.8	2296.1	2404.3	2384.1
35°	2162.9	2154.8	2131.2	2048.0	1904.2	1832.6	1929.2	2385.6	2590.0	2572.2
37.5°	2271.6	2263.4	2244.2	2175.9	2055.2	1928.3	1994.2	2504.8	2809.2	2800.6
40°	2388.9	2375.5	2366.3	2293.3	2184.1	2066.3	2087.0	2644.3	3061.7	3062.6
42.5°	2479.4	2474.1	2475.0	2418.8	2308.6	2229.8	2210.1	2801.5	3364.1	3373.3
45°	2556.8	2552.4	2570.2	2530.8	2434.2	2337.0	2354.3	2979.5	3695.0	3713.7
47.5°	2616.4	2621.2	2646.7	2621.2	2564.5	2412.5	2482.2	3171.3	4042.7	4045.1
50°	2676.0	2678.0	2720.3	2707.8	2684.7	2508.2	2600.1	3385.8	4409.1	4413.4
52.5°	2694.8	2691.9	2759.2	2790.0	2791.0	2626.5	2752.5	3619.5	4768.3	4782.2
55°	2598.6	2606.8	2715.5	2840.5	2890.0	2790.0	2958.3	3915.2	5151.1	5156.8
57.5°	2128.3	2173.5	2414.0	2703.9	2954.0	3024.2	3254.0	4261.0	5593.0	5587.7
60°	1291.6	1345.5	1633.0	2267.8	2745.3	3259.3	3689.7	4796.7	6075.8	6060.9
62.5°	722.3	738.6	830.5	1357.5	2087.9	3109.8	4115.3	5484.8	6724.0	6673.5
65°	532.3	537.6	559.2	665.0	1026.2	2391.8	4022.0	6307.5	7634.7	7544.8
67.5°	462.6	467.9	489.0	503.5	458.3	1256.5	3313.7	6763.9	8791.2	8673.4
70°	389.5	392.4	426.5	436.1	328.0	478.0	2128.8	6623.0	9861.6	9777.5
72.5°	290.4	302.0	351.5	374.6	263.0	253.9	1002.1	5790.6	10042.9	10043.9
75°	197.2	207.7	264.5	308.2	202.9	177.9	404.4	4324.0	8745.1	8745.1
77.5°	134.6	143.3	184.2	241.9	153.9	122.1	209.7	2744.3	6273.9	6494.6
80°	59.6	64.9	118.8	175.5	116.9	78.9	118.8	1502.7	3794.0	3747.4
82.5°	29.3	33.7	76.0	109.6	75.5	48.6	62.5	714.6	1229.6	1168.5
85°	5.8	7.7	40.9	46.6	35.1	21.6	23.6	219.8	148.1	169.3
87.5°	0.0	0.0	12.5	8.7	3.8	4.8	4.8	19.7	11.5	13.5
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°
1281.0	0°	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0
1302.7	2.5°	1285.4	1267.6	1228.6	1190.1	1150.7	1114.7	1089.6	1064.6	1049.3	1042.5
1331.5	5°	1295.5	1259.4	1177.6	1092.0	1007.4	924.7	862.7	804.5	786.2	755.9
1365.7	7.5°	1311.3	1252.7	1123.8	979.5	842.0	720.8	633.3	563.6	535.7	508.8
1395.0	10°	1321.9	1240.2	1052.6	859.8	673.7	537.6	453.9	403.4	385.2	368.8
1422.4	12.5°	1326.2	1217.1	970.9	725.6	524.1	409.7	359.7	336.1	329.9	324.1
1448.4	15°	1330.1	1194.5	879.5	596.3	414.0	342.9	323.1	315.4	311.1	307.3
1474.8	17.5°	1333.4	1165.6	775.2	484.7	349.6	315.9	306.3	298.1	294.8	290.4
1512.8	20°	1345.0	1137.7	681.9	400.1	314.5	296.7	286.1	277.5	274.6	271.7
1566.7	22.5°	1366.6	1115.1	591.5	342.9	293.3	277.0	263.5	253.9	252.0	250.1
1632.1	25°	1392.6	1087.2	506.4	305.8	272.7	254.4	239.5	231.3	229.4	229.9
1707.6	27.5°	1425.8	1056.5	433.3	282.3	254.4	233.2	216.4	210.1	211.1	213.0
1794.6	30°	1462.3	1028.1	376.0	265.9	238.0	214.5	197.6	193.3	196.7	199.6
1911.0	32.5°	1516.7	1003.1	336.1	252.9	223.6	199.1	185.6	180.3	184.2	188.0
2059.6	35°	1590.7	990.6	313.5	241.9	211.1	187.1	173.6	169.7	173.6	174.6
2240.8	37.5°	1681.6	989.6	303.9	232.7	199.6	177.0	162.1	160.6	163.5	164.0
2458.7	40°	1798.9	995.9	296.7	226.0	187.5	165.4	151.5	150.0	151.0	154.4
2720.7	42.5°	1947.5	1021.8	286.6	217.4	174.6	153.9	142.8	139.5	139.0	142.8
3014.1	45°	2134.1	1079.1	273.1	203.4	163.0	144.3	133.2	129.4	127.9	128.9
3317.0	47.5°	2337.5	1149.3	259.7	190.4	154.8	136.6	125.5	120.7	118.3	118.3
3600.3	50°	2534.7	1228.6	250.5	177.0	149.1	129.4	117.3	112.5	108.7	107.7
3891.7	52.5°	2729.9	1306.5	243.3	163.5	142.3	120.2	109.6	104.3	100.0	98.1
4180.2	55°	2907.8	1380.6	230.8	150.5	133.7	110.6	101.9	96.7	91.4	88.0
4472.5	57.5°	3078.5	1442.1	207.7	137.0	120.2	101.5	93.8	88.0	81.7	77.4
4768.3	60°	3233.8	1473.9	178.9	122.6	106.8	91.8	84.6	79.3	71.2	64.0
5059.2	62.5°	3352.1	1461.4	147.6	106.3	92.8	83.2	74.1	68.8	59.1	50.5
5407.8	65°	3473.3	1393.1	117.8	89.0	81.3	71.6	62.0	56.7	45.7	36.5
5879.6	67.5°	3630.5	1247.4	92.8	74.1	70.2	56.7	48.6	45.2	37.5	28.9
6385.9	70°	3731.5	968.9	72.1	60.1	57.7	41.4	37.5	37.0	29.8	22.1
6351.8	72.5°	3454.6	635.2	55.3	45.7	41.4	26.9	28.9	28.9	21.6	14.9
5568.0	75°	2883.8	371.7	39.9	32.7	23.6	17.3	19.7	19.7	13.5	7.2
3968.6	77.5°	2059.6	198.1	26.4	20.2	12.0	7.7	10.6	10.1	4.3	0.5
1555.6	80°	787.7	68.3	12.5	8.2	3.4	1.4	1.0	0.5	0.5	0.0
242.8	82.5°	120.2	17.8	2.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0
51.5	85°	21.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.5	87.5°	4.8	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

180°
1281.0
1043.5
757.8
508.3
368.3
324.1
307.3
290.4
272.2
248.6
228.9
212.1
198.6
187.1
174.1
163.0
153.9
142.3
130.3
118.3
107.2
97.1
86.6
75.5
62.0
47.1
34.1
26.9
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