

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: P946076

Luminaire Tested: **GALN-SB1D-830-U-SL3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946076  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)  
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-SL3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

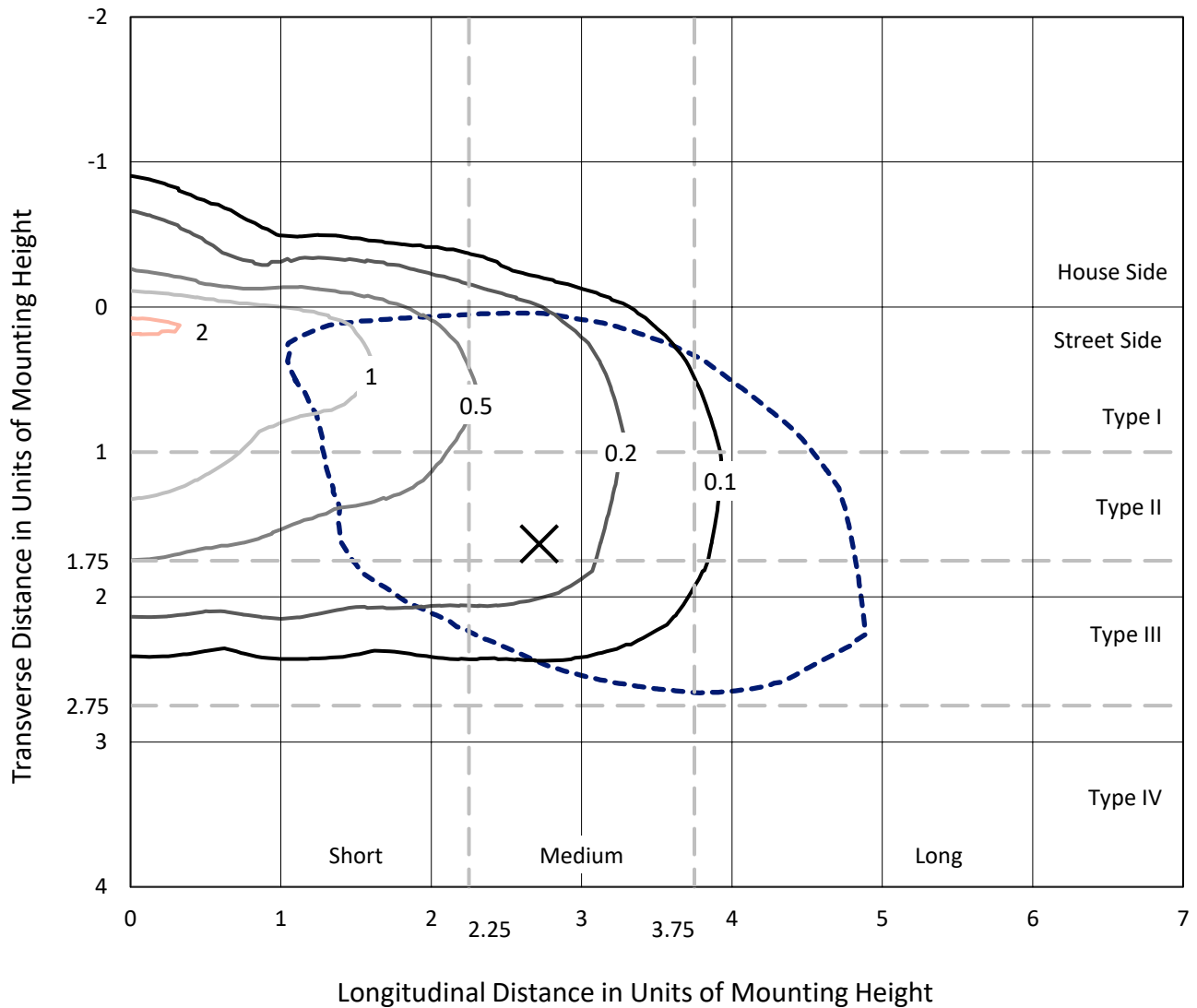
Lumens per Lamp: N/A  
Luminaire Lumens: 7366 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

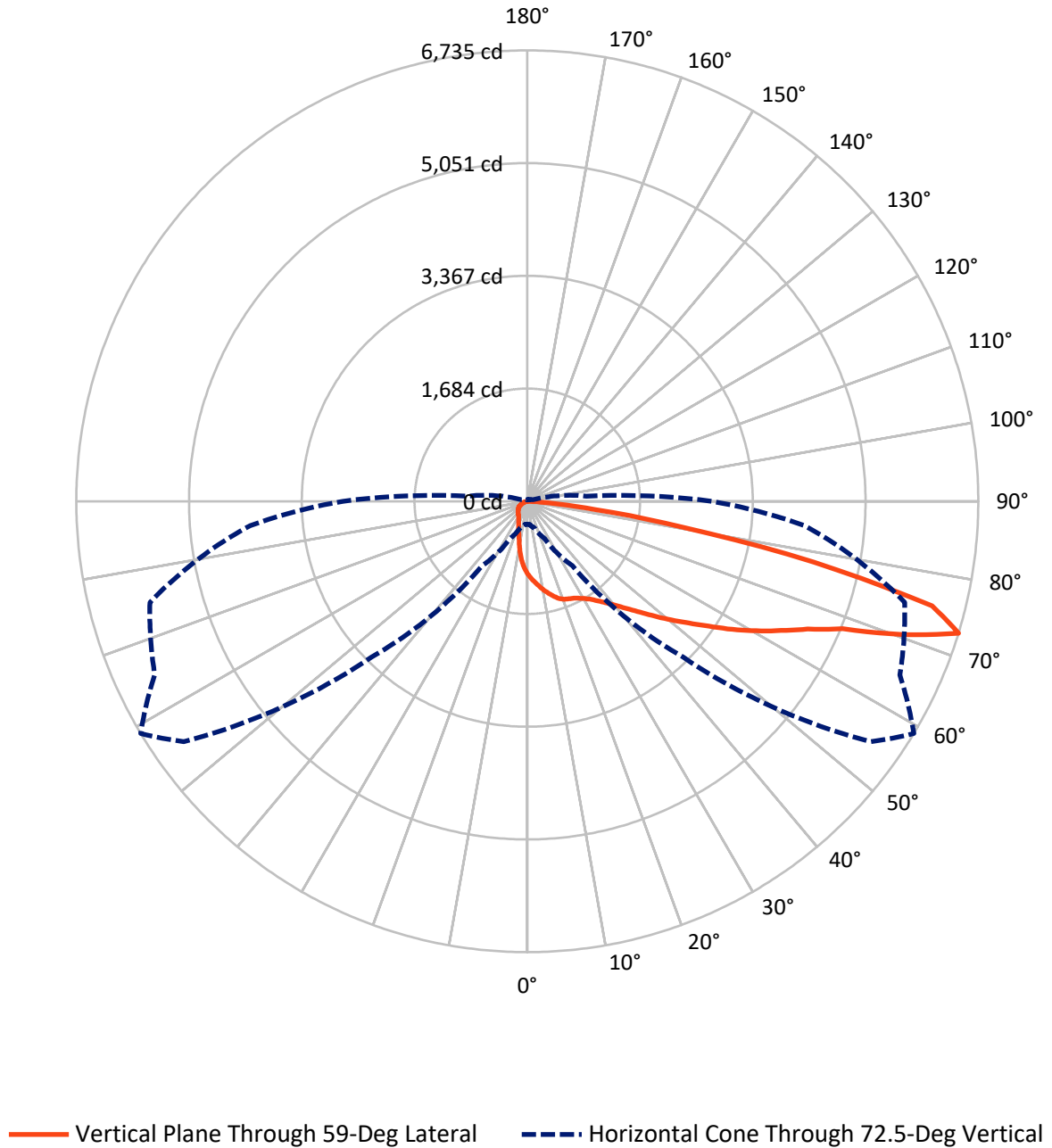
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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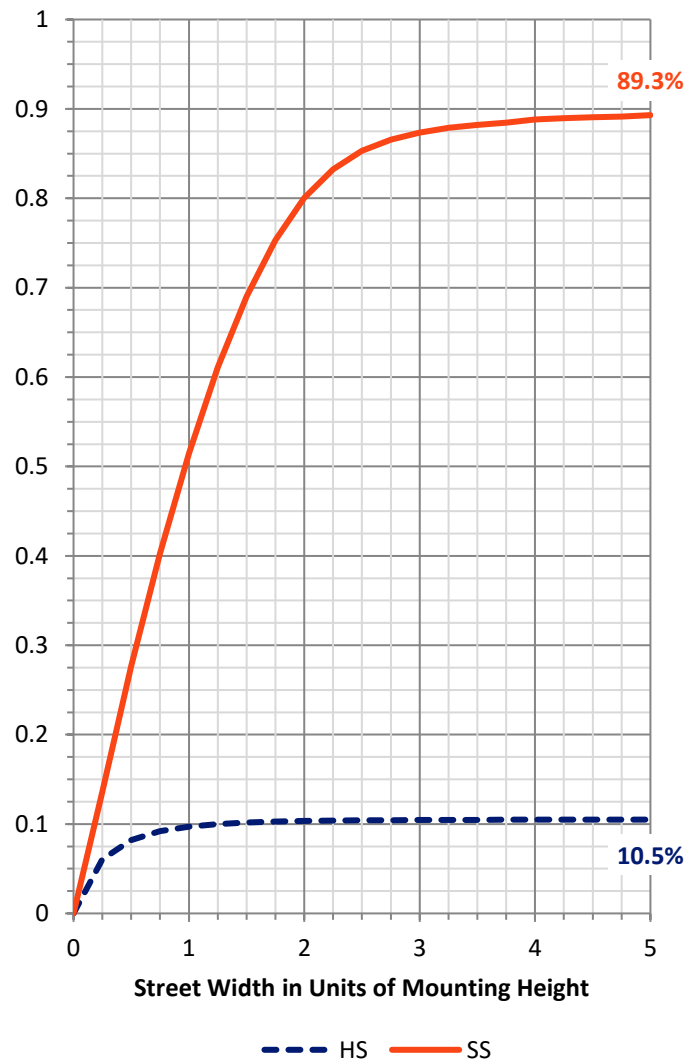
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	778.0	0.0	778.0
	% Fixture	10.6	0.0	10.6
<b>Street Side</b>	Lumens	6588.0	0.0	6588.0
	% Fixture	89.4	0.0	89.4
<b>Total</b>	Lumens	7366.0	0.0	7366.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	1.3
10°-20°	261.8	3.6
20°-30°	414.9	5.6
30°-40°	665.8	9.0
40°-50°	1063.3	14.4
50°-60°	1539.6	20.9
60°-70°	1827.1	24.8
70°-80°	1356.4	18.4
80°-90°	138.7	1.9
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°	7366.0	100.0
0°-180°	7366.0	100.0

**Coefficient of Utilization**



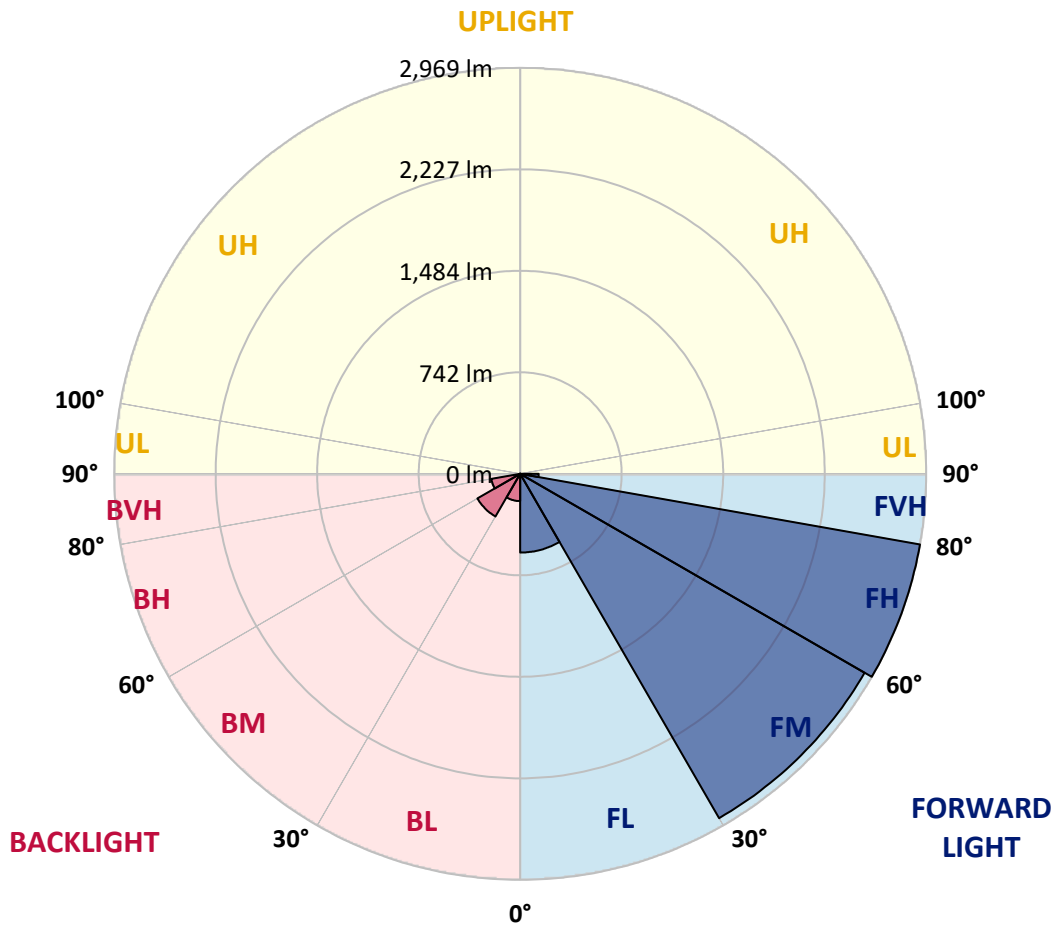
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.9	7.8			
FM (30°-60°)	2908.0	39.5			
FH (60°-80°)	2968.9	40.3			G2/5000
FVH (80°-90°)	135.2	1.8			G2/225
BL (0°-30°)	199.3	2.7	B1/500		
BM (30°-60°)	360.7	4.9	B1/1000		
BH (60°-80°)	214.5	2.9	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3
2.5°	1208.5	1201.8	1202.8	1191.2	1183.0	1174.4	1157.5	1155.1	1143.1	1122.0
5°	1313.8	1309.5	1305.7	1292.7	1275.8	1254.7	1226.3	1216.2	1194.1	1157.5
7.5°	1390.8	1385.5	1387.4	1374.4	1361.0	1337.4	1298.5	1279.7	1250.4	1194.6
10°	1405.7	1402.8	1415.3	1420.1	1420.1	1405.2	1367.2	1348.5	1305.7	1234.5
12.5°	1322.0	1322.5	1353.8	1391.3	1440.3	1454.3	1428.8	1408.6	1366.3	1276.8
15°	1224.4	1224.9	1255.2	1303.3	1383.6	1463.9	1484.1	1471.1	1427.3	1322.5
17.5°	1165.7	1163.3	1183.5	1222.9	1307.1	1420.1	1517.7	1526.4	1490.8	1373.0
20°	1157.5	1153.2	1163.8	1183.5	1243.6	1365.3	1521.6	1562.5	1556.2	1430.2
22.5°	1207.6	1200.8	1195.1	1196.0	1221.5	1319.6	1512.0	1582.7	1623.5	1499.0
25°	1306.6	1296.0	1277.3	1253.2	1248.0	1310.0	1505.2	1604.8	1686.1	1587.0
27.5°	1427.8	1412.9	1376.8	1340.8	1310.0	1336.9	1519.2	1639.9	1756.8	1689.4
30°	1561.0	1542.8	1506.7	1438.4	1389.3	1397.0	1552.4	1686.1	1847.2	1805.3
32.5°	1756.8	1714.4	1651.4	1547.1	1482.2	1462.0	1602.4	1744.7	1959.2	1959.7
35°	1924.6	1901.0	1837.5	1707.7	1574.5	1548.0	1668.3	1827.4	2114.6	2164.1
37.5°	2034.7	2002.5	1946.7	1849.1	1717.8	1636.5	1756.3	1928.9	2279.0	2396.8
40°	2157.8	2126.1	2052.0	1960.2	1884.2	1788.5	1867.4	2045.8	2459.4	2635.9
42.5°	2306.4	2265.1	2177.6	2078.5	1999.1	1988.6	2012.6	2191.5	2644.5	2895.5
45°	2481.0	2442.0	2341.5	2216.5	2146.8	2128.0	2195.3	2361.3	2850.8	3180.2
47.5°	2644.5	2599.3	2491.1	2377.1	2299.7	2240.5	2389.6	2561.8	3084.5	3477.9
50°	2783.5	2737.3	2638.3	2516.6	2464.2	2386.7	2580.6	2785.4	3316.3	3780.4
52.5°	2878.7	2837.8	2721.5	2638.7	2603.2	2564.2	2804.2	3022.5	3547.2	4057.4
55°	2857.1	2820.5	2718.1	2712.3	2709.9	2750.8	3071.6	3291.3	3782.3	4319.5
57.5°	2788.3	2746.9	2619.0	2707.0	2792.2	2917.2	3361.1	3609.2	4040.1	4566.7
60°	2585.8	2571.4	2493.5	2696.9	2826.8	3080.2	3691.9	3928.5	4319.0	4784.1
62.5°	2157.4	2169.9	2169.4	2718.1	2889.3	3265.8	3992.5	4251.7	4591.7	4993.3
65°	1615.4	1658.7	1714.0	2527.7	2973.0	3597.2	4351.7	4602.3	4868.7	5236.6
67.5°	1085.4	1120.0	1157.5	2073.7	2723.9	3945.4	4948.5	5082.7	5200.5	5506.4
70°	621.3	632.4	684.8	1295.1	2099.6	3849.2	5920.5	5969.0	5695.4	5838.7
72.5°	348.2	344.3	413.6	614.6	1173.4	3296.1	6260.9	6734.6	6138.3	5833.4
75°	232.8	233.2	284.7	387.6	457.3	2307.4	5395.3	6244.6	5872.8	5172.6
77.5°	158.7	164.0	209.2	299.6	211.6	1125.8	3569.3	4374.3	4754.7	3994.4
80°	68.8	69.3	138.0	215.0	142.8	358.3	1850.5	2343.5	2982.1	2243.0
82.5°	35.6	40.4	88.0	139.0	89.9	125.5	874.3	1023.9	1251.3	658.4
85°	12.5	14.9	54.3	68.3	45.2	44.7	304.4	310.2	265.0	99.1
87.5°	0.0	2.4	21.2	16.8	5.8	5.3	36.1	30.3	24.0	13.9
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°
1089.3	0°	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3
1100.3	2.5°	1090.2	1077.2	1056.1	1030.1	999.8	983.5	959.9	945.5	932.5	933.0
1115.2	5°	1091.7	1070.0	1016.2	958.9	895.5	848.8	796.9	760.3	732.4	725.7
1130.6	7.5°	1096.0	1059.4	971.4	876.2	770.4	692.0	620.4	575.2	549.7	542.9
1146.5	10°	1101.8	1047.9	920.9	775.2	643.9	549.7	490.0	461.2	449.6	441.0
1166.7	12.5°	1106.6	1035.9	857.5	670.9	531.4	457.8	412.6	388.6	378.5	372.2
1190.2	15°	1114.7	1020.0	788.7	573.7	455.4	395.3	352.5	334.7	331.8	332.8
1216.2	17.5°	1122.9	1004.6	711.7	497.7	399.6	340.5	314.5	311.6	315.5	319.3
1246.0	20°	1132.1	982.5	633.8	440.5	348.2	302.5	295.8	297.7	299.6	306.3
1286.9	22.5°	1145.5	954.6	565.5	391.9	305.4	284.2	280.9	282.3	283.7	290.5
1340.8	25°	1164.8	924.8	510.2	347.2	278.4	269.3	265.9	265.9	267.9	274.1
1403.3	27.5°	1185.0	882.5	465.5	305.9	262.6	253.0	247.2	247.2	249.6	256.8
1481.7	30°	1207.6	844.0	430.4	275.1	249.1	236.6	228.9	227.0	229.9	239.0
1595.2	32.5°	1248.4	819.0	405.4	260.7	237.1	221.7	211.1	205.8	208.7	219.3
1753.9	35°	1310.5	813.2	388.1	253.4	225.5	208.2	193.3	185.1	187.6	198.6
1949.6	37.5°	1383.1	825.2	371.3	243.8	214.5	195.2	175.5	165.0	168.8	178.9
2173.2	40°	1487.4	875.3	358.3	236.6	203.4	179.9	157.7	147.2	153.4	162.1
2406.0	42.5°	1613.4	964.2	354.9	229.9	190.0	163.5	141.4	133.7	138.5	146.7
2641.1	45°	1769.7	1077.7	370.3	221.2	175.1	147.6	128.4	124.1	125.5	133.7
2863.3	47.5°	1937.6	1194.1	412.6	213.5	162.1	134.7	118.3	114.5	113.5	121.2
3066.3	50°	2107.3	1297.5	462.6	207.8	152.9	124.1	110.6	105.8	103.4	108.2
3266.8	52.5°	2275.2	1379.7	495.3	198.1	143.8	113.5	103.9	96.7	92.3	94.7
3466.4	55°	2445.4	1451.9	497.3	183.7	135.1	106.8	97.1	89.0	83.7	83.7
3658.7	57.5°	2604.6	1515.3	468.9	164.5	123.1	100.5	88.0	81.3	75.5	73.6
3829.5	60°	2745.5	1562.5	421.8	142.8	112.5	92.3	78.9	73.6	66.4	62.5
3981.4	62.5°	2871.0	1585.6	357.3	120.7	99.5	82.7	70.2	64.4	54.8	50.0
4135.8	65°	2977.3	1562.0	290.0	100.0	88.5	72.1	60.1	54.3	43.8	38.0
4309.4	67.5°	3082.6	1454.3	219.3	84.2	76.9	60.6	49.5	44.2	36.5	31.7
4435.9	70°	3096.1	1227.8	153.4	70.7	64.0	46.6	39.9	36.5	29.8	25.5
4153.6	72.5°	2756.1	883.4	93.3	57.7	50.0	33.2	31.7	28.9	22.1	19.2
3393.8	75°	2203.0	541.5	54.8	43.3	33.2	23.6	23.6	20.7	14.9	12.5
2343.0	77.5°	1522.6	283.3	32.2	27.9	19.7	13.9	15.4	12.5	7.2	5.8
928.2	80°	609.8	107.7	17.3	13.0	9.1	6.3	5.3	2.9	1.4	1.0
190.4	82.5°	121.7	28.4	5.8	3.4	3.4	1.4	0.0	0.0	0.0	0.0
52.4	85°	31.3	6.3	1.4	1.0	1.0	0.0	0.0	0.0	0.0	0.0
17.3	87.5°	9.6	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

180°
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1089.3
943.5
735.8
549.7
446.3
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334.2
320.8
308.3
292.4
276.5
259.7
241.4
222.2
202.0
181.8
163.5
148.1
137.5
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