

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: P947848

Luminaire Tested: **GALN-SB3A-827-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
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-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

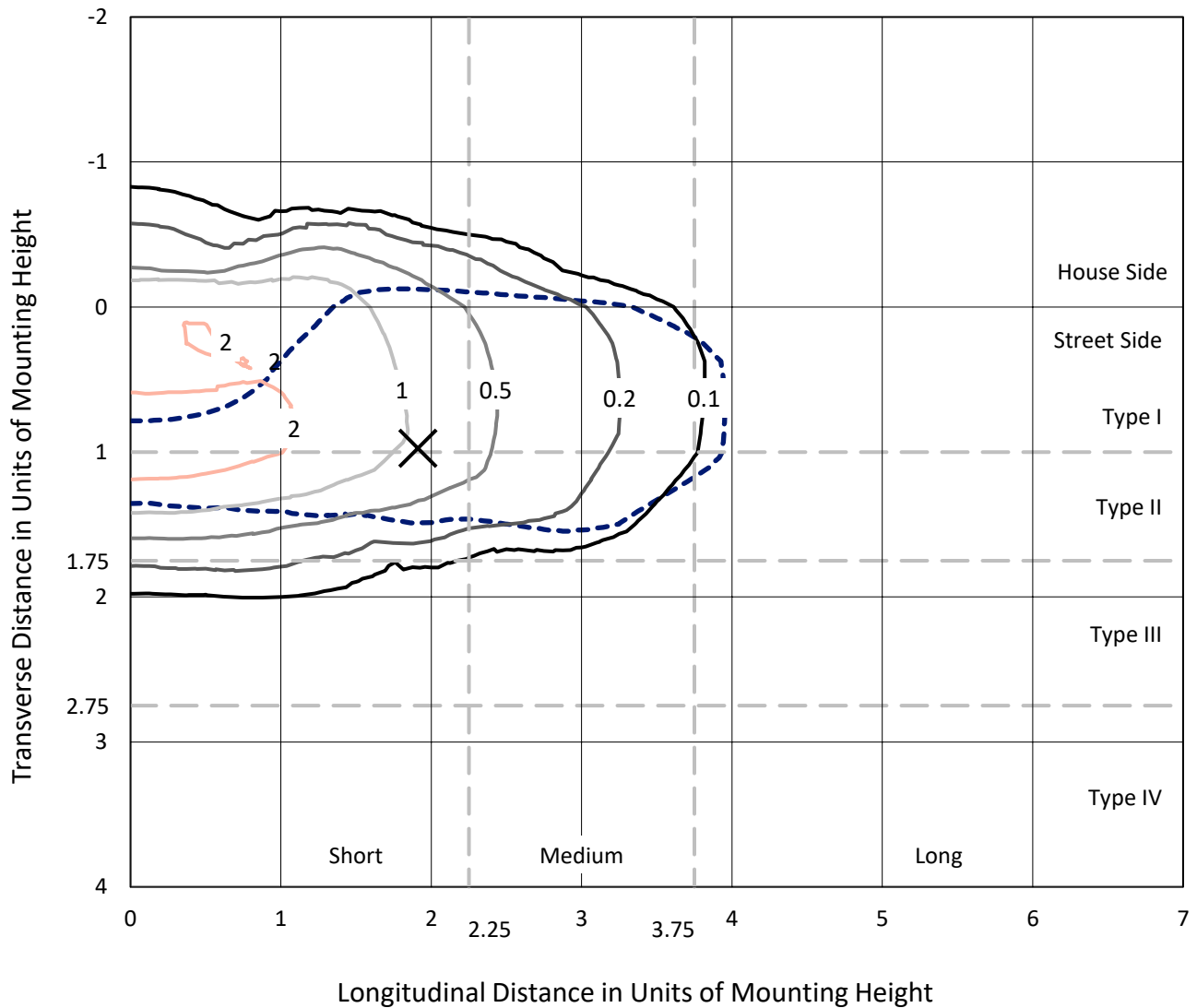
Lumens per Lamp: N/A  
Luminaire Lumens: 8944 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

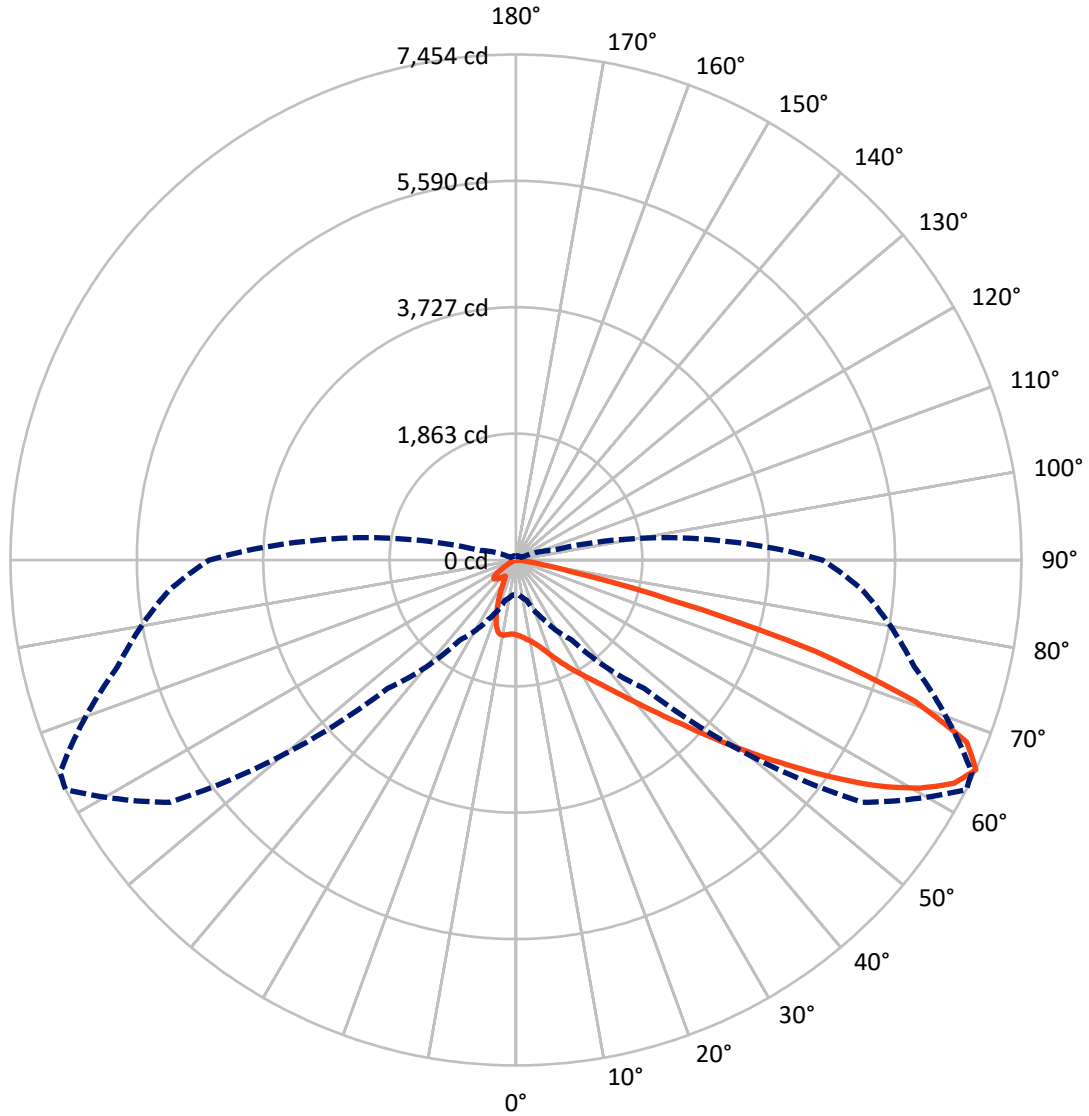
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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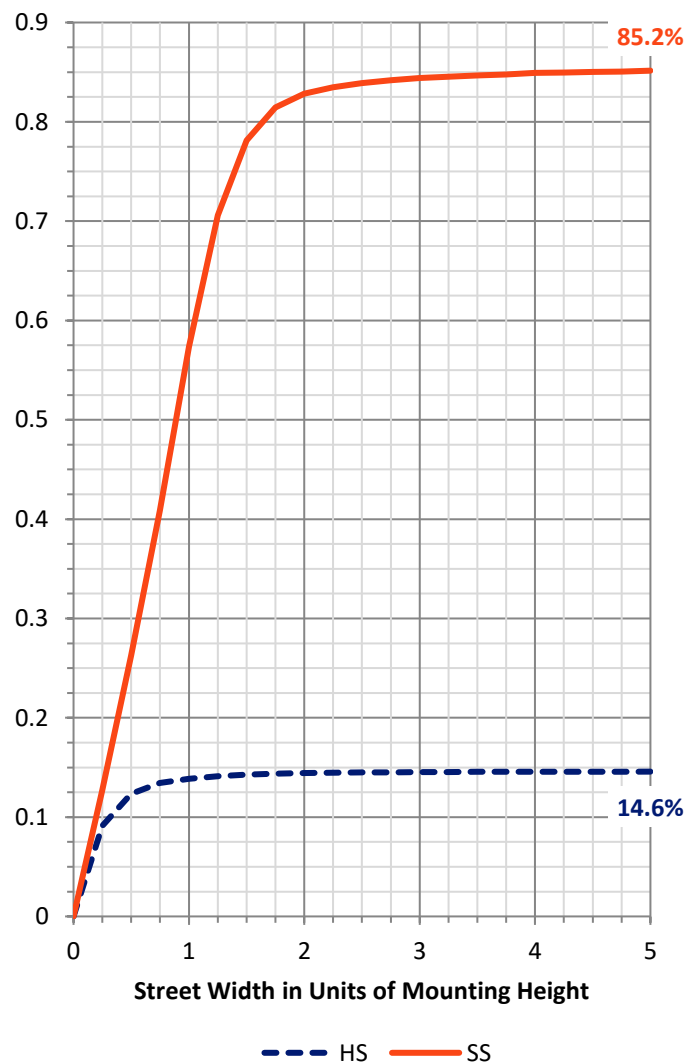
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1314.7	0.0	1314.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	7629.3	0.0	7629.3
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	8944.0	0.0	8944.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.0	1.2
10°-20°	288.6	3.2
20°-30°	502.5	5.6
30°-40°	905.7	10.1
40°-50°	1796.2	20.1
50°-60°	2446.8	27.4
60°-70°	1953.0	21.8
70°-80°	883.8	9.9
80°-90°	63.5	0.7
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°	8944.0	100.0
0°-180°	8944.0	100.0

**Coefficient of Utilization**



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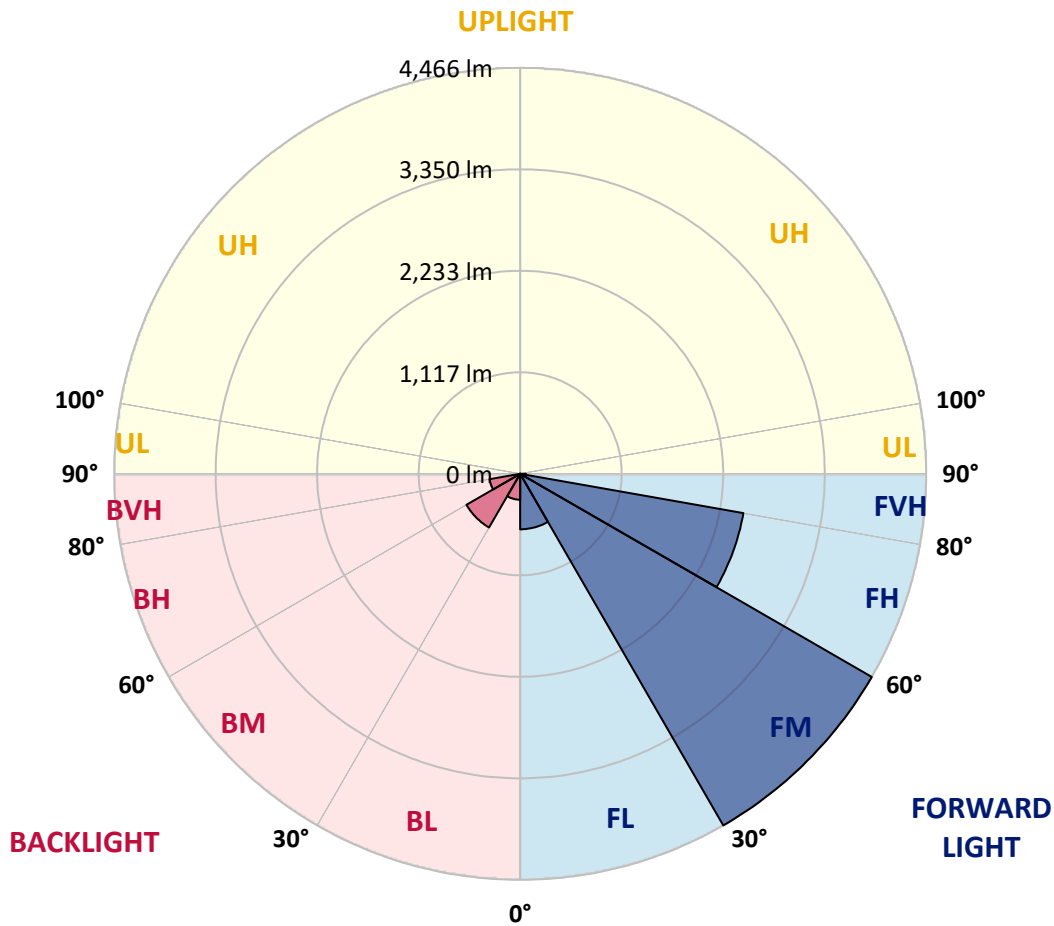
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.5	6.8			
FM (30°-60°)	4466.4	49.9			
FH (60°-80°)	2493.5	27.9			G2/5000
FVH (80°-90°)	58.8	0.7			G1/100
BL (0°-30°)	284.5	3.2	B1/500		
BM (30°-60°)	682.2	7.6	B1/1000		
BH (60°-80°)	343.2	3.8	B1/500		G1/500
BVH (80°-90°)	4.7	0.1			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9
2.5°	1129.7	1126.6	1130.9	1129.1	1127.9	1125.4	1124.2	1122.9	1120.5	1118.6
5°	1132.8	1130.9	1135.2	1138.9	1142.6	1146.3	1148.2	1150.6	1148.2	1143.2
7.5°	1106.9	1105.7	1114.9	1126.0	1142.6	1156.8	1172.2	1180.8	1181.4	1179.5
10°	1105.1	1102.0	1111.2	1124.8	1146.3	1171.5	1198.6	1217.1	1219.5	1227.5
12.5°	1134.0	1130.9	1143.9	1158.6	1180.8	1207.2	1240.5	1266.3	1270.0	1281.1
15°	1182.6	1178.3	1193.1	1212.2	1240.5	1270.6	1305.7	1329.1	1332.1	1345.7
17.5°	1239.2	1234.9	1252.1	1272.5	1303.2	1344.4	1385.1	1410.9	1414.6	1423.2
20°	1311.8	1306.3	1319.8	1338.3	1370.9	1420.1	1468.7	1505.7	1505.0	1505.0
22.5°	1396.1	1387.5	1399.2	1414.0	1444.7	1504.4	1569.0	1612.7	1612.7	1595.5
25°	1486.6	1478.0	1490.9	1504.4	1531.5	1599.2	1674.9	1729.0	1731.5	1701.9
27.5°	1599.8	1588.7	1598.6	1614.6	1630.6	1699.5	1789.3	1852.1	1853.3	1807.8
30°	1817.6	1786.2	1755.5	1738.2	1745.6	1813.9	1909.9	1979.4	1985.6	1922.8
32.5°	2216.3	2210.2	2101.9	1960.4	1886.5	1937.0	2044.7	2128.3	2132.0	2051.4
35°	2835.9	2828.6	2654.4	2384.9	2144.3	2101.9	2208.3	2307.4	2304.9	2213.9
37.5°	3575.5	3568.8	3339.3	2978.7	2589.2	2351.1	2419.4	2523.4	2538.8	2419.4
40°	4207.5	4182.2	4037.0	3689.4	3179.9	2764.6	2719.7	2788.6	2804.6	2663.0
42.5°	4686.2	4664.6	4590.8	4373.6	3894.9	3376.2	3073.5	3099.9	3117.8	2947.9
45°	4934.1	4929.2	4958.7	4938.4	4623.4	4126.9	3579.2	3469.1	3475.9	3263.6
47.5°	4969.2	4966.7	5101.5	5292.2	5249.8	4973.5	4228.4	3929.3	3905.3	3619.8
50°	4762.5	4757.5	5016.0	5373.5	5668.2	5684.8	4965.5	4448.0	4395.1	3988.4
52.5°	4102.2	4101.0	4525.6	5120.6	5815.3	6307.5	5694.0	5017.8	4929.2	4378.5
55°	3156.5	3179.3	3666.0	4369.3	5547.0	6607.2	6348.1	5650.4	5514.4	4771.1
57.5°	2236.0	2269.2	2750.4	3376.8	4715.1	6429.9	6790.5	6284.1	6137.7	5162.4
60°	1201.1	1230.6	1712.4	2460.0	3507.9	5769.1	7023.7	6834.2	6695.8	5534.1
62.5°	715.6	725.4	924.8	1588.1	2372.6	4407.4	6924.7	7253.2	7139.4	5846.0
65°	513.8	515.6	615.9	969.7	1440.4	2677.8	6230.0	7453.8	7418.7	6081.1
67.5°	432.6	431.3	473.2	644.2	981.4	1341.4	4774.8	7170.2	7319.1	6230.0
70°	371.0	372.9	422.1	471.9	737.8	759.3	2373.8	6242.9	6560.4	6269.4
72.5°	276.3	282.4	328.0	430.1	556.9	522.4	819.6	4628.9	5203.0	5906.9
75°	195.1	198.1	230.7	361.8	415.3	380.3	418.4	2392.9	3128.8	4528.7
77.5°	150.1	155.7	174.7	252.9	409.2	267.0	256.0	828.2	1272.5	2735.6
80°	81.2	91.1	126.1	182.7	287.3	188.9	126.8	329.8	431.3	1279.2
82.5°	41.8	46.8	88.0	131.7	163.7	164.9	62.8	137.2	177.8	395.0
85°	16.6	20.3	59.1	72.6	84.3	81.2	28.3	55.4	64.0	109.5
87.5°	3.7	6.2	21.5	16.6	16.0	17.2	6.8	12.9	12.3	12.9
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°
1103.9	0°	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9
1111.2	2.5°	1110.6	1108.2	1101.4	1094.0	1085.4	1080.5	1077.4	1076.8	1072.5	1069.4
1135.9	5°	1129.1	1126.6	1113.7	1098.3	1081.7	1068.8	1056.5	1045.4	1029.4	1026.3
1171.5	7.5°	1166.0	1159.2	1138.3	1117.4	1086.0	1048.5	1002.9	950.6	903.9	889.7
1218.9	10°	1211.5	1202.3	1175.8	1138.9	1069.4	967.3	857.1	755.0	673.8	651.0
1274.9	12.5°	1263.2	1255.2	1220.2	1151.9	999.9	814.7	646.1	519.3	440.6	420.9
1334.6	15°	1324.8	1313.1	1264.5	1132.2	875.6	619.0	443.6	368.6	340.3	336.6
1402.9	17.5°	1390.0	1370.9	1303.8	1061.4	708.2	439.9	342.7	321.2	308.9	305.2
1471.8	20°	1449.7	1425.0	1327.2	954.3	529.2	342.7	307.0	292.9	281.8	277.5
1540.7	22.5°	1509.3	1474.3	1327.2	808.5	396.9	304.0	281.8	268.9	256.0	250.4
1614.6	25°	1571.5	1524.7	1303.8	646.1	319.3	278.7	257.8	243.7	232.6	225.8
1684.7	27.5°	1631.8	1567.2	1250.3	492.2	284.3	256.6	235.7	222.1	211.7	206.7
1761.0	30°	1689.0	1609.0	1175.2	373.5	261.5	235.0	215.4	203.7	193.2	188.3
1860.1	32.5°	1766.5	1661.9	1095.2	306.4	241.8	214.7	196.9	185.8	176.6	172.9
1988.7	35°	1874.2	1740.1	1026.3	300.9	225.2	198.1	180.3	169.8	160.6	157.5
2154.8	37.5°	2026.8	1866.2	990.0	337.8	211.7	183.4	166.7	155.7	147.1	144.6
2365.9	40°	2215.1	2037.3	1009.7	374.7	202.4	170.4	154.4	143.4	136.0	132.9
2608.3	42.5°	2438.5	2248.3	1118.6	403.0	196.3	159.4	142.8	130.4	125.5	124.3
2883.3	45°	2695.0	2480.3	1285.4	433.2	186.4	148.9	131.1	121.8	118.1	117.5
3182.4	47.5°	2986.7	2735.0	1478.6	470.7	176.6	139.1	121.8	115.7	112.6	111.4
3494.3	50°	3275.9	2991.6	1677.3	491.6	168.6	129.8	114.4	109.5	107.1	106.4
3824.1	52.5°	3578.6	3255.6	1837.9	471.9	161.8	122.4	108.3	104.6	102.1	101.5
4128.1	55°	3867.2	3469.1	1865.6	400.6	148.3	115.1	101.5	99.7	96.6	96.6
4436.4	57.5°	4115.8	3576.2	1669.9	294.1	134.8	104.0	94.8	92.9	90.4	89.8
4714.5	60°	4344.1	3545.4	1289.1	198.1	120.0	92.9	86.1	84.9	82.5	79.4
4956.3	62.5°	4472.7	3410.0	881.7	129.2	105.2	81.2	76.3	75.7	70.1	64.0
5135.3	65°	4521.3	3131.9	550.1	94.1	88.0	69.5	65.8	64.6	56.6	49.8
5236.9	67.5°	4478.8	2674.1	277.5	74.5	69.5	57.8	54.1	54.1	48.6	42.5
5230.7	70°	4309.0	2004.7	116.9	59.7	53.5	44.3	44.3	46.8	41.2	34.5
4959.4	72.5°	3940.4	1348.8	62.1	45.5	40.0	31.4	36.3	38.1	32.6	25.8
4059.2	75°	3132.5	822.7	43.1	33.8	25.2	22.2	27.7	28.9	22.2	17.2
2783.0	77.5°	2142.5	472.6	28.9	21.5	16.0	12.9	19.1	17.8	11.7	8.0
1073.1	80°	940.8	196.9	16.6	9.8	6.2	4.9	6.8	4.9	3.7	2.5
147.1	82.5°	110.1	46.1	6.2	3.7	2.5	1.2	0.6	0.0	0.0	0.0
44.9	85°	22.8	5.5	3.1	1.2	0.6	0.0	0.0	0.0	0.0	0.0
8.0	87.5°	4.3	1.2	0.6	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°
1103.9
1072.5
1025.1
883.0
642.4
415.3
332.9
303.3
275.0
247.4
223.4
206.7
188.9
172.9
157.5
144.0
132.3
124.3
116.9
111.4
106.4
101.5
96.0
89.2
78.8
62.8
49.2
41.8
33.8
25.8
16.6
8.6
2.5
0.0
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