

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: P938957

Luminaire Tested: **GALN-SB1B-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938957  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4901 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

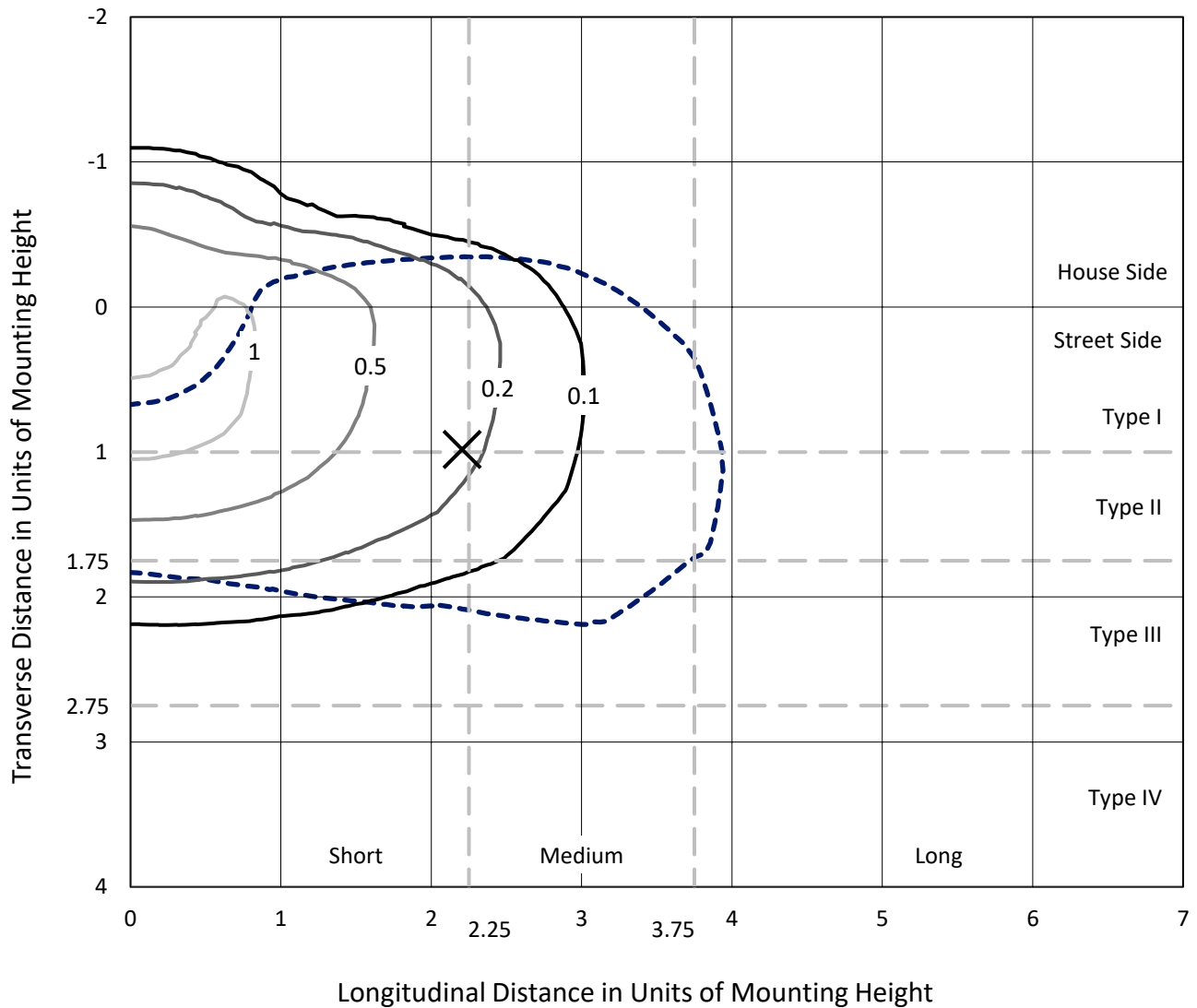
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

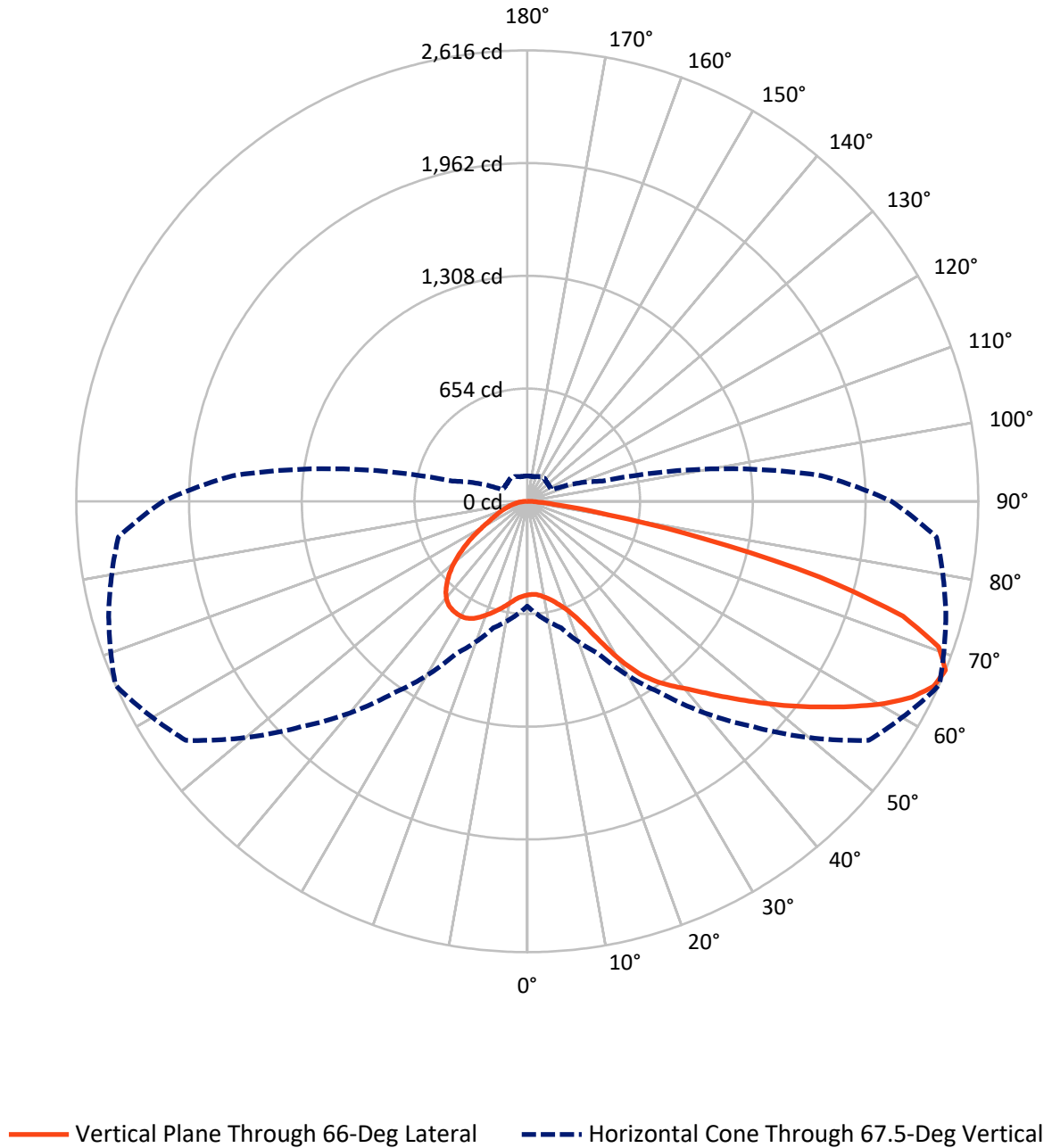
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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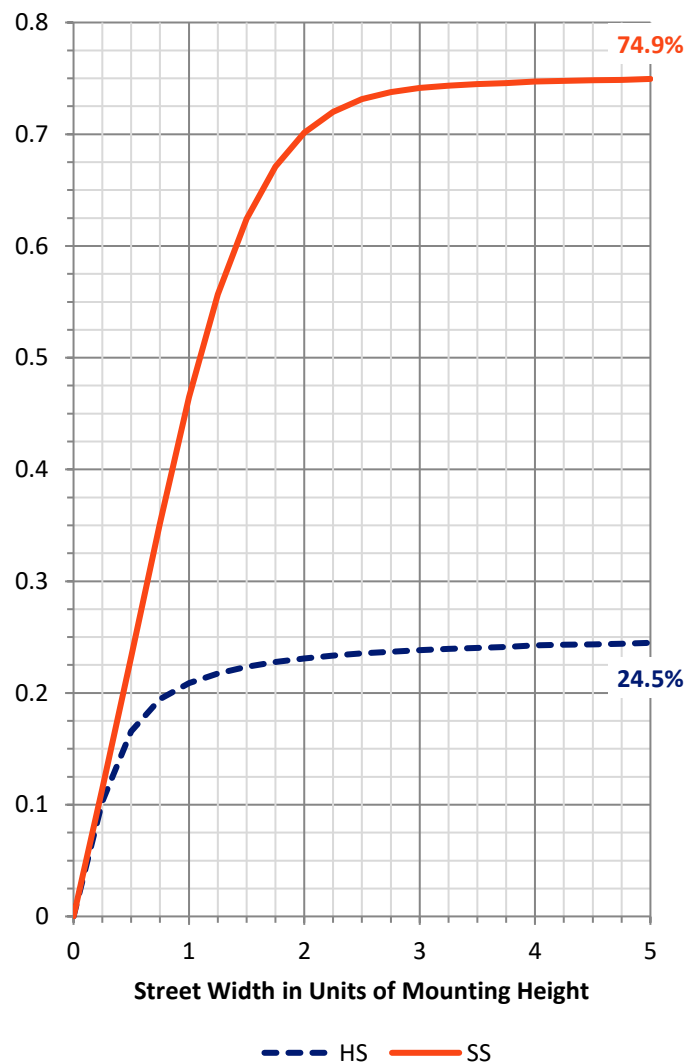
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1218.6	0.0	1218.6
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	3682.4	0.0	3682.4
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	4901.0	0.0	4901.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.9	1.1
10°-20°	178.1	3.6
20°-30°	343.2	7.0
30°-40°	601.8	12.3
40°-50°	894.6	18.3
50°-60°	1134.0	23.1
60°-70°	1109.6	22.6
70°-80°	529.3	10.8
80°-90°	56.6	1.2
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°	4901.0	100.0
0°-180°	4901.0	100.0

**Coefficient of Utilization**



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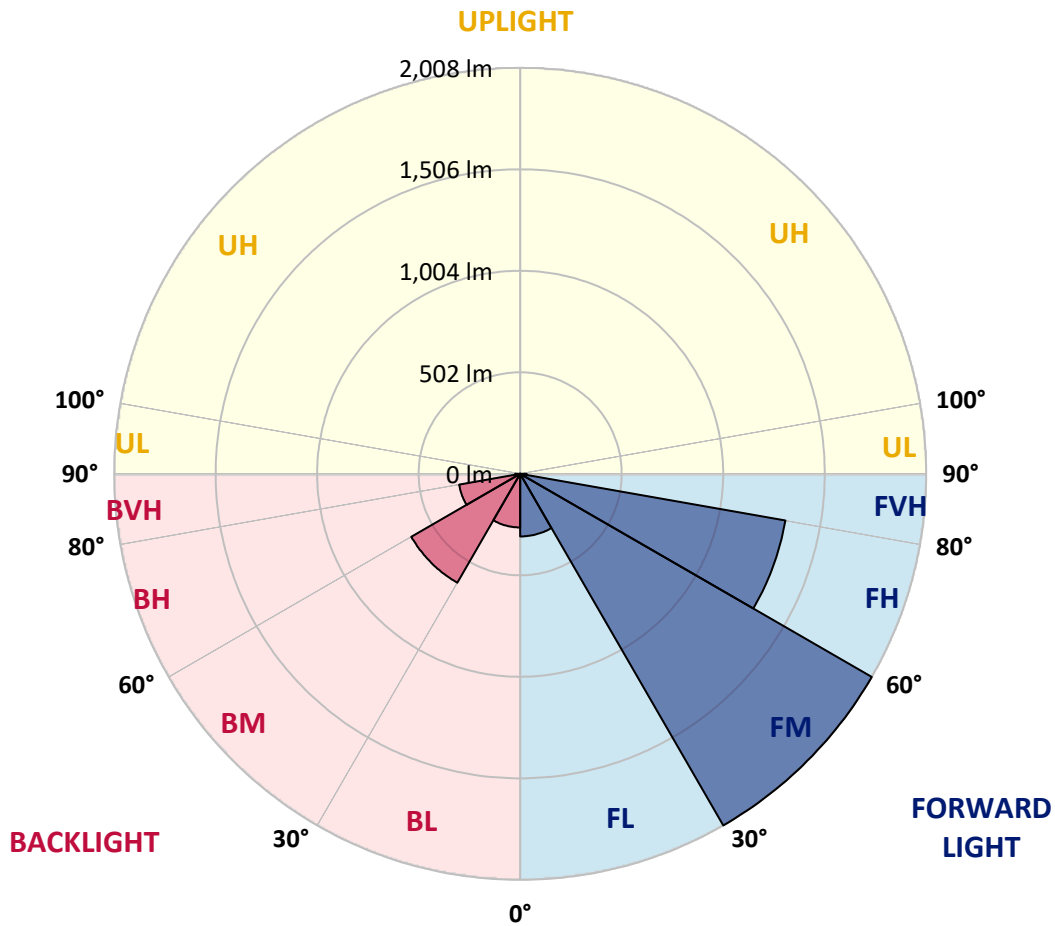
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	309.7	6.3			
FM (30°-60°)	2008.4	41.0			
FH (60°-80°)	1332.2	27.2			G1/1800
FVH (80°-90°)	32.1	0.7			G1/100
BL (0°-30°)	265.5	5.4	B1/500		
BM (30°-60°)	622.0	12.7	B1/1000		
BH (60°-80°)	306.7	6.3	B1/500		G1/500
BVH (80°-90°)	24.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	543.6	543.6	543.6	543.6	543.6	543.6	543.6	543.6	543.6	543.6
2.5°	537.9	541.0	540.2	539.0	538.7	539.2	540.0	540.8	540.5	541.8
5°	536.4	539.5	539.2	539.2	540.2	542.3	543.6	544.9	543.6	545.1
7.5°	537.4	539.7	540.8	541.8	544.4	548.2	551.3	554.1	552.6	554.4
10°	550.5	552.3	553.4	553.4	555.2	559.6	562.6	567.8	566.5	569.3
12.5°	574.5	576.3	576.3	575.3	576.5	579.4	580.4	586.1	583.8	588.4
15°	603.8	607.4	604.6	602.8	603.3	606.2	605.9	610.3	608.0	611.8
17.5°	636.3	640.9	636.3	636.0	635.0	638.1	638.3	642.2	638.1	640.9
20°	674.7	681.1	677.2	678.5	676.2	677.5	678.8	684.4	678.0	680.1
22.5°	728.7	736.5	732.3	737.2	735.7	734.7	734.4	744.4	734.4	735.2
25°	807.5	816.8	809.6	816.3	816.3	819.6	823.5	836.4	819.6	814.7
27.5°	923.9	933.2	919.0	923.1	921.9	930.1	926.0	957.9	939.9	931.9
30°	1064.0	1080.5	1053.7	1052.7	1051.4	1064.5	1070.4	1091.5	1073.3	1065.3
32.5°	1215.4	1232.7	1200.7	1191.5	1186.6	1194.5	1189.7	1206.7	1194.0	1181.7
35°	1375.6	1392.6	1362.2	1344.2	1324.6	1307.9	1290.3	1294.7	1282.9	1264.1
37.5°	1527.0	1558.1	1526.0	1506.6	1470.6	1437.9	1389.0	1368.6	1357.5	1340.3
40°	1681.2	1699.0	1674.5	1658.1	1618.9	1567.7	1489.4	1446.4	1431.5	1414.7
42.5°	1794.8	1811.8	1798.6	1787.3	1756.7	1697.2	1596.0	1542.2	1520.5	1501.7
45°	1884.9	1897.5	1889.3	1893.4	1880.3	1822.6	1706.5	1644.9	1622.5	1599.6
47.5°	1921.2	1934.6	1947.7	1972.2	1994.6	1952.1	1825.2	1756.2	1732.5	1709.0
50°	1917.1	1930.7	1968.9	2020.9	2090.4	2076.2	1950.3	1874.6	1852.7	1825.9
52.5°	1884.1	1899.6	1948.5	2035.0	2145.8	2169.2	2077.8	1996.9	1976.3	1944.4
55°	1797.6	1806.9	1880.3	2002.8	2158.9	2234.1	2202.7	2127.2	2106.6	2062.1
57.5°	1637.2	1650.6	1757.4	1916.1	2125.9	2278.1	2312.4	2264.2	2244.4	2180.3
60°	1427.8	1449.2	1571.5	1770.3	2042.0	2277.9	2412.0	2398.9	2382.4	2296.7
62.5°	1190.9	1215.7	1333.3	1564.3	1895.2	2213.2	2474.3	2511.7	2503.2	2404.0
65°	914.6	931.6	1048.8	1297.8	1666.8	2074.4	2481.5	2588.7	2590.2	2485.7
67.5°	609.0	657.9	759.6	973.9	1360.9	1847.6	2418.2	2601.3	2616.2	2513.7
70°	297.2	361.5	461.2	632.9	973.9	1499.7	2252.6	2497.8	2531.0	2431.8
72.5°	123.3	144.2	198.5	312.3	559.0	1012.0	1919.9	2217.1	2278.6	2154.8
75°	83.2	90.1	113.6	160.2	254.7	499.0	1384.6	1653.2	1752.3	1627.4
77.5°	64.1	68.5	82.7	112.0	151.4	188.7	741.1	996.3	1047.5	969.8
80°	50.5	53.8	61.8	81.6	107.4	100.9	252.6	451.4	481.0	403.5
82.5°	43.8	45.1	44.3	55.4	71.3	59.0	82.9	166.6	183.9	133.4
85°	31.7	35.3	36.8	34.2	37.9	29.9	34.0	59.0	64.9	57.9
87.5°	12.9	19.1	23.4	22.1	13.9	8.5	10.6	17.3	19.8	21.6
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°
543.6	0°	543.6	543.6	543.6	543.6	543.6	543.6	543.6	543.6	543.6	543.6
543.8	2.5°	544.1	545.9	547.2	548.7	549.8	551.3	554.4	556.2	556.5	557.7
548.0	5°	549.0	551.6	554.4	558.5	563.2	567.0	572.9	577.1	578.6	579.9
558.0	7.5°	559.6	563.2	568.3	575.5	582.2	587.4	594.6	599.5	604.4	606.2
574.0	10°	575.3	580.4	587.9	597.7	604.9	611.6	619.0	623.2	628.0	630.1
593.0	12.5°	594.8	600.2	610.0	623.7	630.4	635.0	637.6	636.5	637.6	639.4
615.9	15°	617.2	623.2	634.2	648.9	653.5	649.4	643.8	638.6	637.8	638.3
643.8	17.5°	643.8	648.1	661.0	673.4	670.0	653.0	640.7	632.4	628.3	627.0
679.3	20°	680.8	680.8	691.4	699.1	676.7	647.9	628.6	615.2	606.7	603.1
727.7	22.5°	725.9	721.8	728.5	723.1	675.4	633.5	606.7	583.5	570.6	565.5
795.4	25°	783.1	778.2	776.4	742.9	666.2	610.5	567.0	539.0	527.6	524.8
893.0	27.5°	869.3	857.0	833.5	753.7	649.2	574.5	520.7	494.7	488.2	488.5
1018.4	30°	984.2	959.5	902.0	755.5	621.4	523.5	473.3	454.7	451.7	452.9
1123.7	32.5°	1090.5	1067.1	972.1	747.3	578.6	473.5	430.8	418.4	413.8	415.3
1204.1	35°	1173.9	1167.5	1037.0	735.7	526.1	426.7	392.7	382.1	373.1	371.1
1279.8	37.5°	1252.7	1250.2	1085.6	719.5	474.1	393.5	362.0	348.1	335.0	327.8
1363.5	40°	1339.3	1336.7	1117.6	694.5	428.0	364.6	334.5	316.2	300.0	286.9
1458.2	42.5°	1436.6	1421.4	1132.7	658.7	388.8	340.2	312.1	287.4	266.0	253.9
1565.4	45°	1542.9	1508.7	1132.5	613.1	355.9	317.8	288.1	253.1	233.3	222.0
1675.3	47.5°	1655.7	1592.1	1118.6	562.6	323.9	293.0	251.1	224.3	211.2	204.2
1794.8	50°	1772.1	1670.2	1094.9	504.7	291.2	265.0	227.9	209.6	199.6	193.1
1913.2	52.5°	1881.6	1741.0	1066.3	439.0	258.0	237.7	217.6	203.4	192.9	185.7
2028.1	55°	1983.3	1802.0	1025.9	371.8	231.0	219.4	212.7	200.9	188.7	180.3
2144.7	57.5°	2073.7	1841.7	956.1	308.7	211.7	206.8	207.5	196.5	182.6	175.4
2259.6	60°	2148.9	1870.7	852.8	250.3	196.0	194.4	199.6	188.2	172.0	163.8
2356.7	62.5°	2193.9	1870.2	726.2	205.0	182.6	183.1	189.0	177.9	161.5	153.7
2407.4	65°	2190.1	1824.4	587.1	175.4	169.7	170.2	177.9	166.6	152.7	148.1
2381.9	67.5°	2112.5	1712.6	450.4	156.0	155.5	157.8	166.9	158.9	147.3	146.8
2230.0	70°	1902.7	1480.6	324.5	140.6	140.9	144.2	156.0	154.0	144.5	145.5
1874.9	72.5°	1525.7	1128.9	217.8	124.4	124.6	130.0	145.7	150.1	141.6	155.3
1330.3	75°	1016.1	704.0	140.1	107.1	107.4	114.3	136.7	142.7	133.9	154.8
692.2	77.5°	488.2	316.5	101.5	90.1	90.1	96.6	118.2	127.7	114.1	120.3
222.5	80°	168.7	119.0	79.8	72.6	71.1	75.4	99.7	110.7	98.4	90.6
72.6	82.5°	66.4	61.8	64.1	56.4	51.2	54.1	77.5	91.4	72.4	65.4
40.9	85°	38.1	40.2	45.3	37.3	29.6	33.2	56.9	65.7	54.6	48.2
13.4	87.5°	10.3	14.2	20.9	19.3	13.4	14.2	27.0	36.3	31.4	24.2
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>
543.6
557.5
579.6
606.4
631.1
639.9
640.1
628.8
602.3
564.7
525.3
489.3
457.3
417.4
372.6
328.1
288.1
254.7
221.5
202.7
190.8
182.6
176.9
170.7
160.2
151.4
147.8
147.5
145.2
157.3
156.0
110.2
85.0
65.1
49.2
25.0
0.0

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