

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: P947955

Luminaire Tested: **GALN-SB3A-927-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3A-927-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

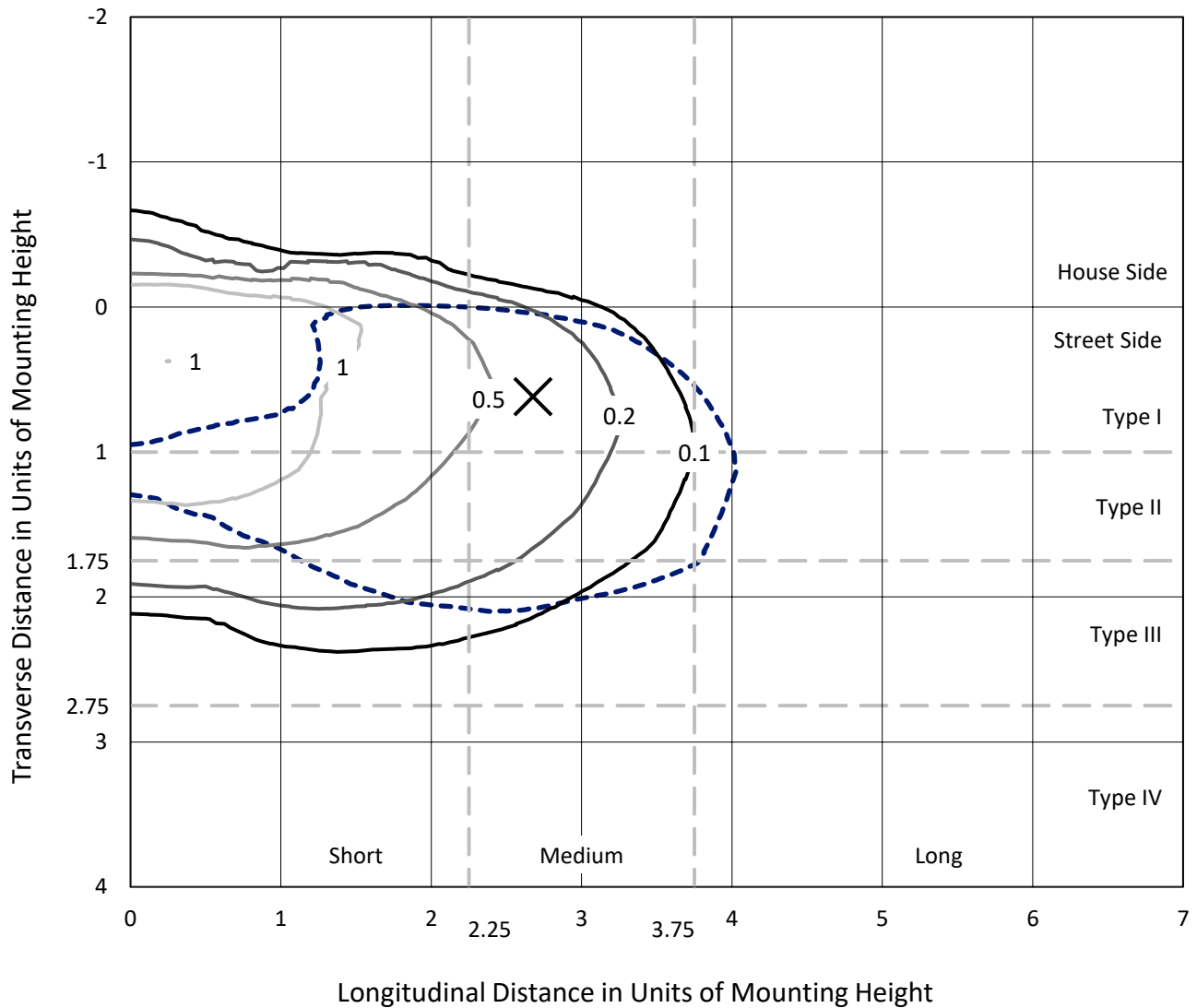
Lumens per Lamp: N/A  
Luminaire Lumens: 6820 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

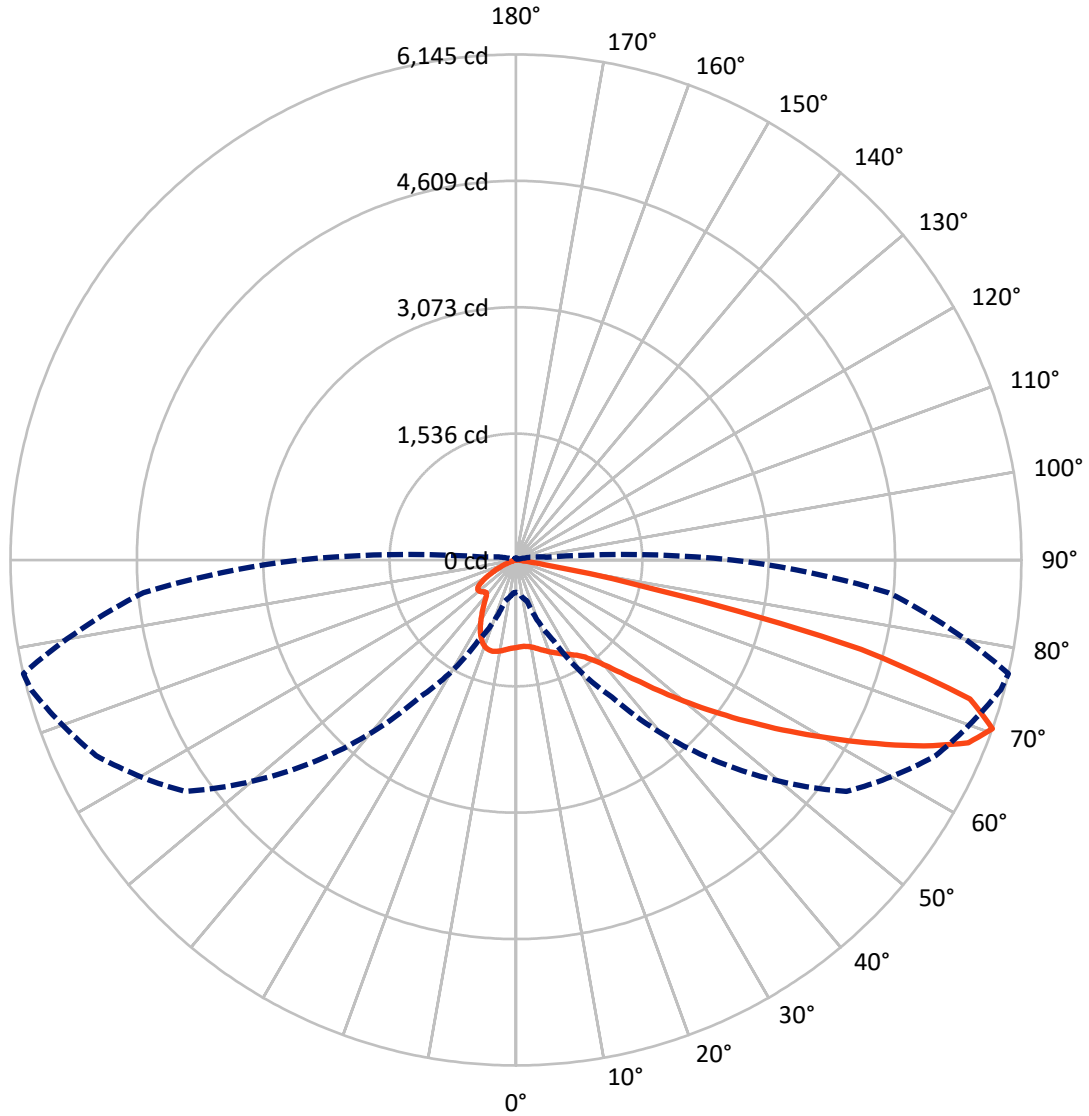
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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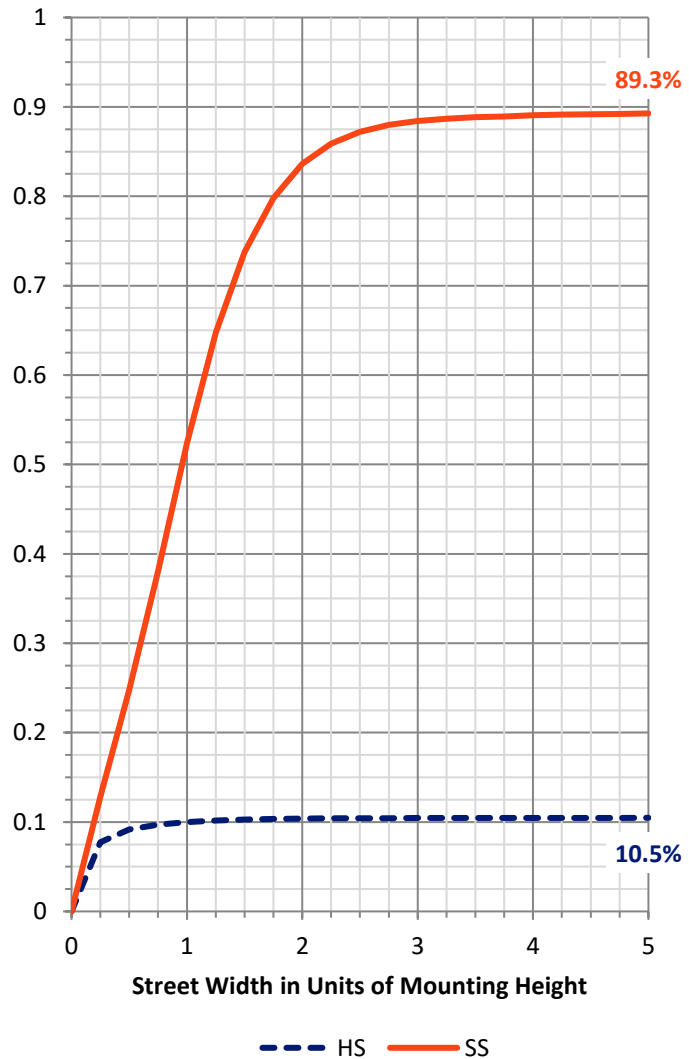
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	718.9	0.0	718.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	6101.1	0.0	6101.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	6820.0	0.0	6820.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.7	1.3
10°-20°	217.6	3.2
20°-30°	336.6	4.9
30°-40°	610.8	9.0
40°-50°	1153.0	16.9
50°-60°	1666.0	24.4
60°-70°	1773.5	26.0
70°-80°	939.8	13.8
80°-90°	30.9	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°	6820.0	100.0
0°-180°	6820.0	100.0

**Coefficient of Utilization**



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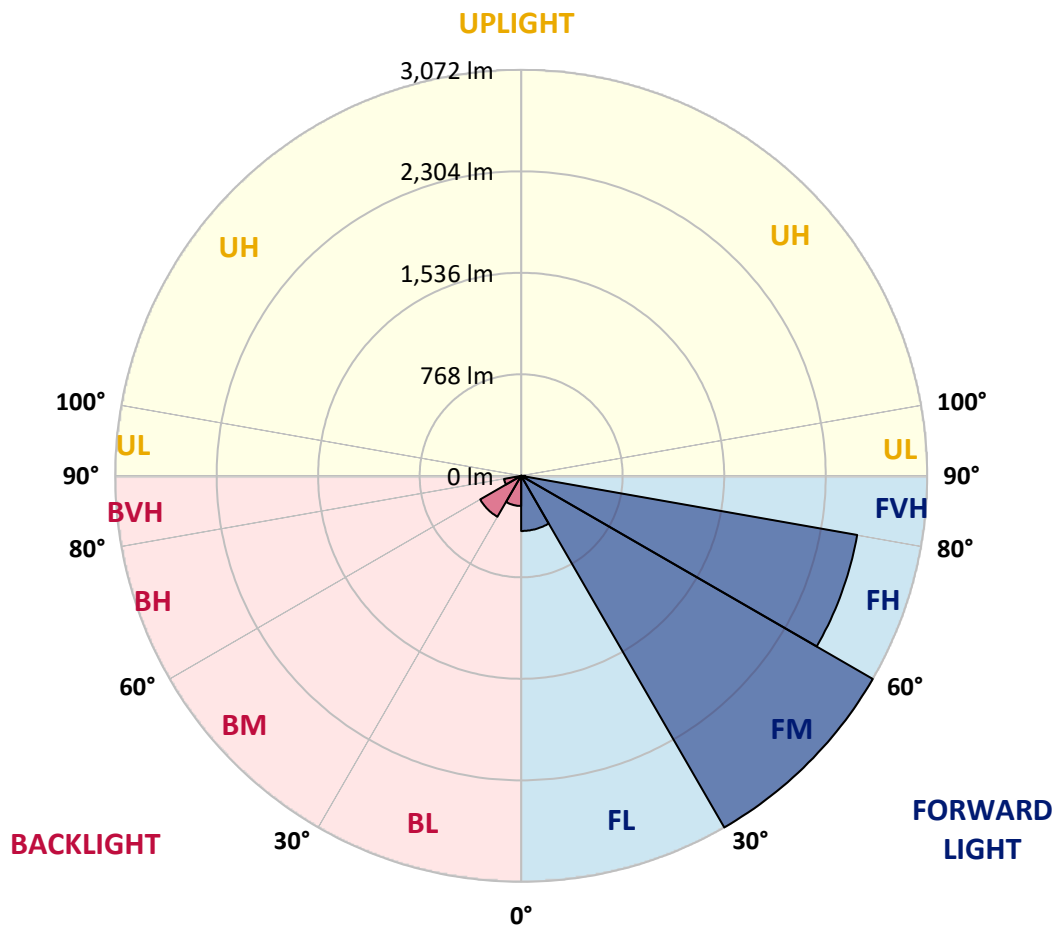
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	417.5	6.1			
FM (30°-60°)	3072.0	45.0			
FH (60°-80°)	2581.5	37.9			G2/5000
FVH (80°-90°)	30.0	0.4			G1/100
BL (0°-30°)	228.4	3.3	B1/500		
BM (30°-60°)	357.9	5.2	B1/1000		
BH (60°-80°)	131.8	1.9	B1/500		G1/500
BVH (80°-90°)	0.8	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°	65°	75°	77°
0°	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8
2.5°	998.8	1007.8	1006.5	1012.5	1014.7	1023.3	1031.9	1043.6	1056.5	1056.0
5°	942.3	951.4	953.5	961.7	972.1	985.4	1003.1	1026.3	1050.4	1054.3
7.5°	875.6	885.1	890.7	907.0	926.0	953.5	982.4	1016.4	1056.5	1062.1
10°	808.8	817.4	824.8	848.0	878.2	919.1	966.0	1015.1	1069.0	1077.1
12.5°	767.5	775.7	783.9	804.1	841.6	891.5	955.3	1021.2	1089.6	1101.3
15°	752.8	760.2	766.6	784.7	819.6	876.4	953.1	1033.6	1115.9	1131.4
17.5°	755.0	758.9	763.2	777.0	811.0	869.6	957.0	1055.2	1146.9	1160.7
20°	767.5	769.6	770.1	779.5	809.7	868.7	964.7	1075.9	1176.2	1194.7
22.5°	783.4	784.3	783.4	789.9	817.9	875.2	975.1	1100.8	1208.9	1226.2
25°	857.9	841.6	820.9	808.4	831.7	887.6	990.6	1134.4	1244.7	1261.5
27.5°	1089.2	1042.3	968.2	885.1	860.1	905.7	1012.1	1168.5	1280.9	1295.9
30°	1464.8	1403.2	1277.4	1090.1	951.4	943.6	1040.1	1202.5	1319.2	1335.6
32.5°	1841.2	1826.1	1681.0	1421.7	1156.8	1028.0	1086.6	1248.6	1370.0	1382.9
35°	2221.9	2191.3	2072.5	1816.2	1473.4	1199.9	1164.1	1308.9	1436.8	1451.4
37.5°	2513.5	2495.0	2421.3	2210.3	1848.9	1465.2	1296.8	1402.3	1533.7	1550.0
40°	2771.0	2762.4	2737.4	2598.3	2268.9	1812.3	1503.1	1547.0	1668.1	1687.4
42.5°	2973.5	2993.7	3007.9	2969.2	2701.7	2208.6	1780.5	1750.3	1855.4	1875.2
45°	3180.6	3187.5	3244.8	3300.8	3131.5	2622.9	2093.1	1988.5	2088.4	2113.0
47.5°	3313.7	3341.3	3442.1	3540.7	3492.9	3033.8	2429.1	2269.7	2358.4	2404.5
50°	3323.6	3375.7	3514.4	3686.2	3756.0	3424.8	2794.3	2590.2	2684.5	2735.3
52.5°	3158.7	3239.6	3454.5	3706.1	3898.1	3756.0	3172.0	2910.6	3031.6	3097.9
55°	2421.8	2527.7	3229.3	3598.4	3903.7	4007.1	3539.8	3244.4	3418.4	3493.3
57.5°	2109.9	2163.3	2538.9	3411.5	3800.0	4108.3	3872.3	3562.2	3839.1	3932.2
60°	1755.5	1825.7	2129.3	3105.7	3659.1	4118.2	4166.0	3972.2	4295.2	4399.9
62.5°	1193.0	1269.2	1571.1	2580.2	3466.6	4113.5	4406.8	4394.3	4802.2	4914.6
65°	739.1	786.9	985.8	2106.9	3197.4	4118.7	4658.7	4906.8	5337.1	5451.2
67.5°	584.0	606.0	709.8	1617.7	2733.6	4002.4	4910.3	5388.8	5840.5	5931.0
70°	392.4	405.7	516.4	1084.5	2033.7	3465.7	4905.5	5630.8	6099.8	6145.0
72.5°	206.7	217.1	301.9	502.2	1228.3	2463.5	4135.0	5341.4	5841.8	5773.8
75°	103.4	120.6	203.3	255.0	524.6	1373.9	2567.8	4211.3	4598.0	4334.4
77.5°	78.4	94.8	168.0	168.0	182.6	462.6	1087.5	2296.9	2118.5	1764.1
80°	50.0	64.6	146.9	127.1	76.2	117.6	283.4	643.4	450.1	342.4
82.5°	29.3	42.2	122.3	84.0	42.6	43.5	80.1	137.0	116.7	90.9
85°	11.6	27.6	84.0	33.2	16.8	10.8	24.1	29.3	24.1	18.1
87.5°	0.0	6.5	14.6	0.0	1.3	0.9	1.7	2.2	2.2	1.7
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°
1063.8	0°	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8
1064.7	2.5°	1068.5	1069.4	1072.0	1072.4	1066.4	1058.6	1055.6	1054.3	1049.2	1048.7
1071.5	5°	1081.5	1085.3	1081.5	1070.3	1043.6	1006.1	977.7	954.4	933.3	926.8
1095.2	7.5°	1107.3	1111.2	1099.5	1055.6	988.4	913.9	846.7	799.4	756.7	740.8
1124.1	10°	1144.3	1149.5	1112.9	1024.2	905.3	785.6	671.9	591.8	529.3	503.9
1163.3	12.5°	1190.8	1193.0	1120.2	976.4	797.2	626.2	465.1	379.4	323.9	303.2
1210.7	15°	1242.1	1239.1	1121.1	911.3	649.9	442.7	303.6	249.4	227.0	220.1
1258.0	17.5°	1295.9	1283.4	1103.9	817.4	488.4	302.8	225.2	212.3	208.5	206.7
1305.0	20°	1348.9	1320.9	1072.4	694.7	350.6	226.1	204.6	200.7	198.5	197.7
1352.4	22.5°	1397.1	1349.3	1018.6	552.1	254.5	199.8	193.4	189.9	186.1	184.3
1398.4	25°	1444.1	1365.7	942.8	419.1	203.7	186.9	181.7	175.3	170.1	168.0
1448.0	27.5°	1489.7	1376.0	848.0	310.1	181.7	174.9	165.4	156.3	152.5	151.6
1500.9	30°	1538.4	1379.5	740.4	231.3	168.4	159.8	146.0	135.7	133.5	133.9
1572.4	32.5°	1597.8	1384.7	631.8	189.5	157.2	141.7	125.3	114.6	112.8	114.6
1676.7	35°	1668.9	1395.0	527.2	174.4	147.3	123.2	105.5	96.5	94.8	96.0
1810.2	37.5°	1765.4	1411.8	429.4	171.4	139.1	107.7	88.7	81.4	81.4	81.8
1973.8	40°	1893.7	1456.6	342.0	169.3	134.8	96.0	74.9	71.9	73.2	74.1
2182.3	42.5°	2050.1	1551.8	283.0	166.7	130.1	90.9	68.0	66.8	68.9	69.8
2432.1	45°	2225.4	1672.4	262.3	162.4	125.8	94.3	65.0	63.3	65.9	66.3
2712.0	47.5°	2406.7	1790.4	259.7	157.6	121.5	99.5	64.2	60.3	63.3	63.7
3010.9	50°	2590.2	1867.5	262.3	150.3	114.6	99.5	64.6	57.3	59.9	61.2
3321.0	52.5°	2774.9	1902.8	260.6	134.4	102.5	93.5	64.6	54.7	57.3	58.1
3656.1	55°	2954.1	1895.9	234.3	110.7	87.0	82.7	62.9	52.5	54.3	54.7
3972.7	57.5°	3095.8	1799.8	185.6	86.1	70.6	68.9	57.3	50.0	51.3	50.8
4262.9	60°	3169.9	1588.8	132.7	66.3	55.6	54.3	50.4	46.5	47.4	45.2
4508.9	62.5°	3170.7	1309.7	88.7	52.5	44.4	43.1	43.1	41.8	40.9	36.6
4699.2	65°	3103.1	1000.1	59.0	41.8	35.7	33.6	36.2	35.7	32.7	26.7
4757.4	67.5°	2949.8	655.5	44.8	32.7	27.6	26.3	28.9	30.1	28.0	22.4
4545.5	70°	2634.5	381.6	37.0	25.4	20.7	19.4	23.3	25.8	23.3	18.1
3885.2	72.5°	2188.3	205.9	30.1	19.0	14.2	12.9	18.5	21.1	18.5	13.4
2492.8	75°	1420.0	110.3	23.3	12.5	7.3	8.2	13.8	15.5	12.9	8.6
731.7	77.5°	476.8	48.7	14.6	6.0	3.4	3.4	8.2	9.5	6.0	3.0
133.1	80°	106.4	20.2	6.0	2.6	1.3	1.3	1.7	1.7	0.9	0.0
40.9	82.5°	34.9	8.2	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
10.3	85°	13.4	3.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.4	87.5°	5.2	0.4	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>
1063.8
1049.6
923.0
734.3
493.1
296.7
220.1
206.3
196.8
183.9
167.1
150.7
133.9
114.1
95.6
81.4
74.1
69.8
66.8
64.2
61.6
58.1
54.7
50.8
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