

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: P946055

Luminaire Tested: **GALN-SB1D-827-U-SL3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946055  
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-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

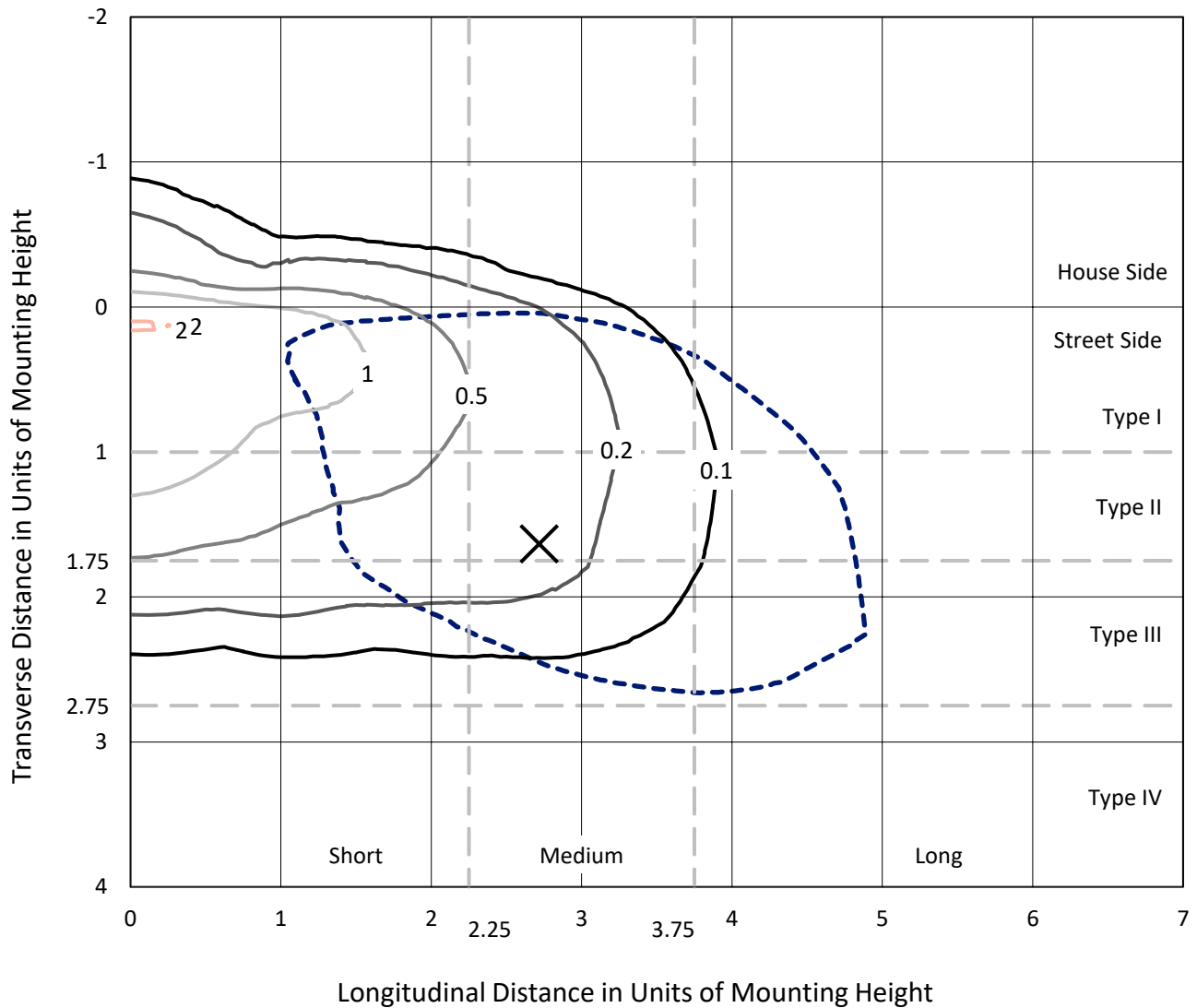
Lumens per Lamp: N/A  
Luminaire Lumens: 7128 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

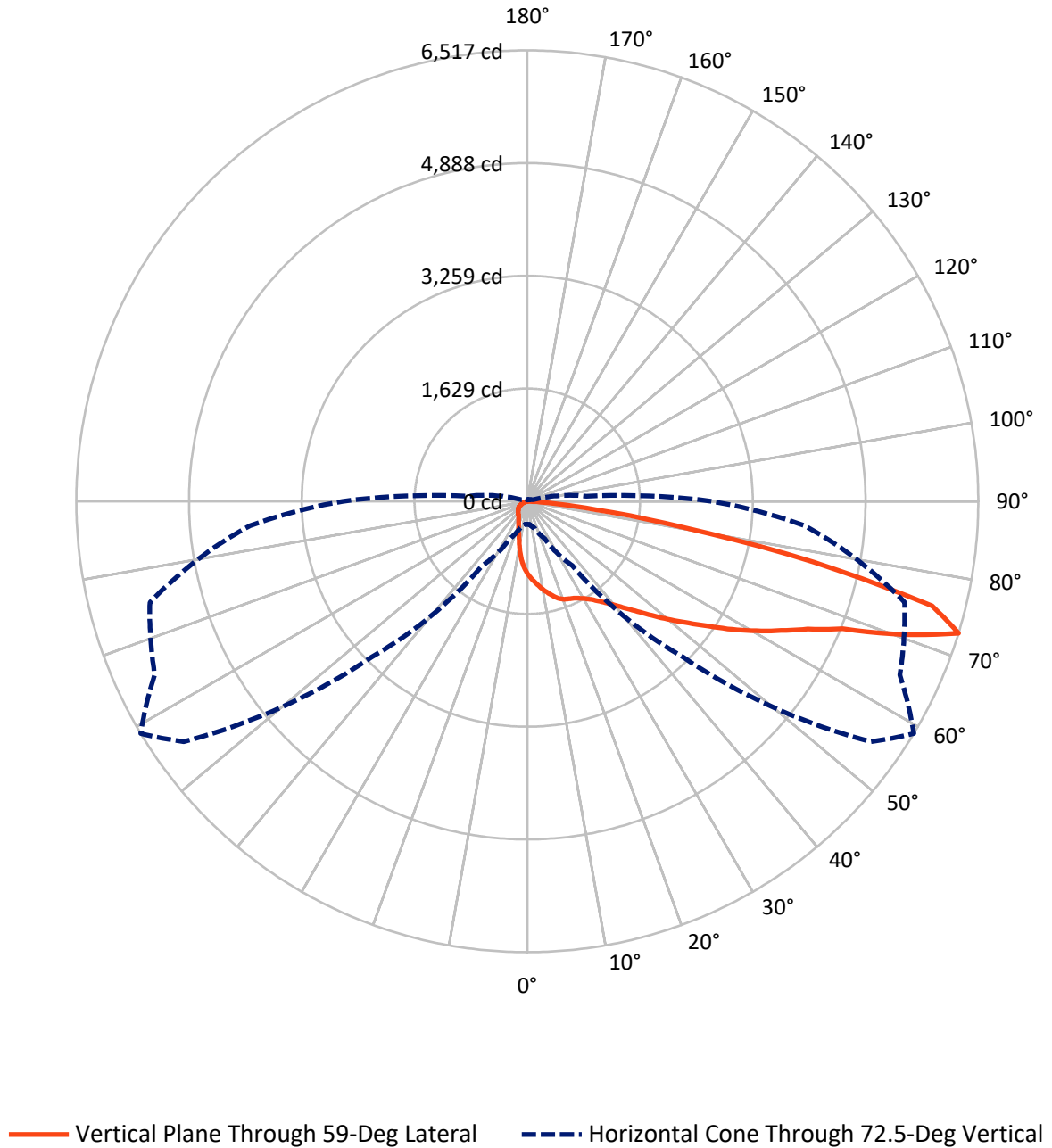
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	752.9	0.0	752.9
	% Fixture	10.6	0.0	10.6
<b>Street Side</b>	Lumens	6375.1	0.0	6375.1
	% Fixture	89.4	0.0	89.4
<b>Total</b>	Lumens	7128.0	0.0	7128.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.4	1.3
10°-20°	253.3	3.6
20°-30°	401.4	5.6
30°-40°	644.2	9.0
40°-50°	1029.0	14.4
50°-60°	1489.8	20.9
60°-70°	1768.1	24.8
70°-80°	1312.5	18.4
80°-90°	134.2	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°	7128.0	100.0
0°-180°	7128.0	100.0

**Coefficient of Utilization**



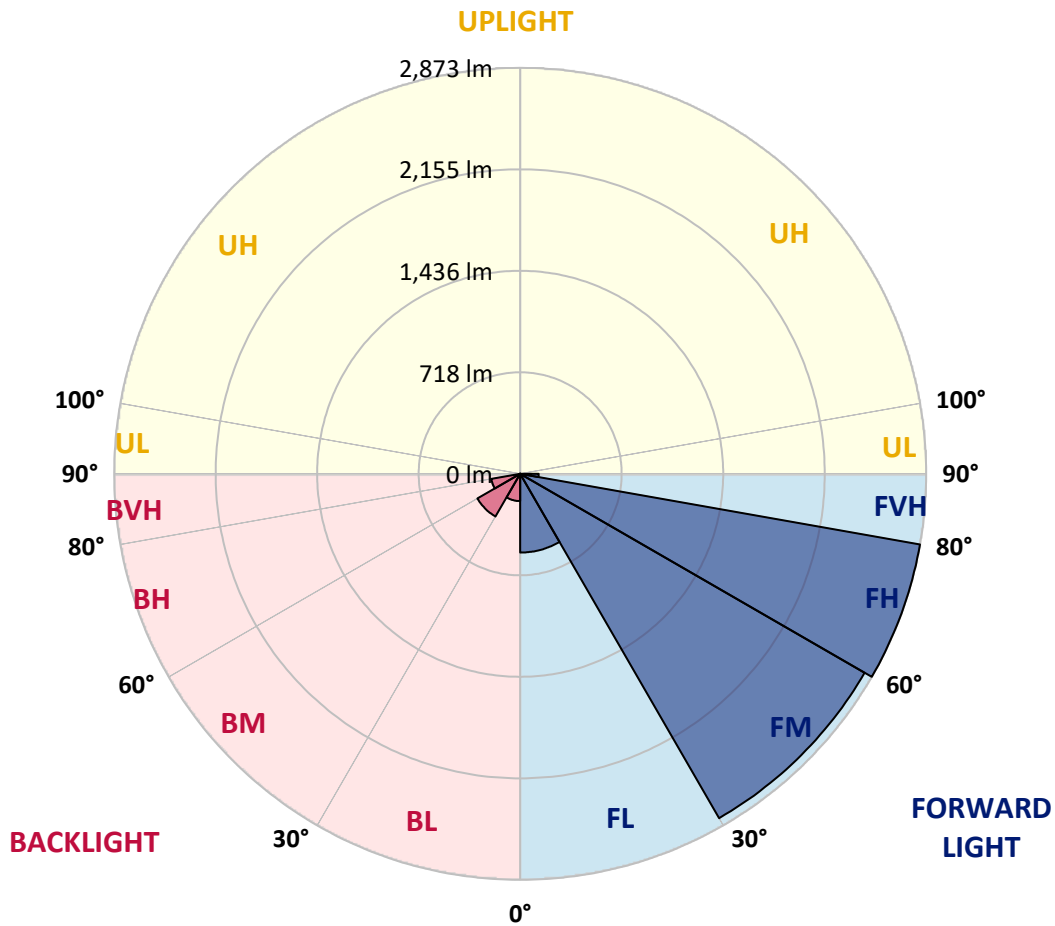
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	557.3	7.8			
FM (30°-60°)	2814.0	39.5			
FH (60°-80°)	2873.0	40.3			G2/5000
FVH (80°-90°)	130.9	1.8			G2/225
BL (0°-30°)	192.9	2.7	B1/500		
BM (30°-60°)	349.1	4.9	B1/1000		
BH (60°-80°)	207.6	2.9	B1/500		G1/500
BVH (80°-90°)	3.3	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°	1054.1	1054.1	1054.1	1054.1	1054.1	1054.1	1054.1	1054.1	1054.1	1054.1
2.5°	1169.5	1163.0	1163.9	1152.7	1144.8	1136.4	1120.1	1117.8	1106.2	1085.7
5°	1271.4	1267.2	1263.5	1250.9	1234.6	1214.1	1186.7	1176.9	1155.5	1120.1
7.5°	1345.8	1340.7	1342.6	1330.0	1317.0	1294.2	1256.5	1238.3	1210.0	1156.0
10°	1360.3	1357.5	1369.6	1374.2	1374.2	1359.8	1323.0	1304.9	1263.5	1194.6
12.5°	1279.3	1279.8	1310.0	1346.3	1393.8	1407.3	1382.6	1363.1	1322.1	1235.6
15°	1184.8	1185.3	1214.6	1261.2	1338.9	1416.6	1436.1	1423.6	1381.2	1279.8
17.5°	1128.1	1125.7	1145.3	1183.4	1264.9	1374.2	1468.7	1477.1	1442.6	1328.6
20°	1120.1	1116.0	1126.2	1145.3	1203.4	1321.2	1472.4	1512.0	1505.9	1384.0
22.5°	1168.5	1162.0	1156.4	1157.4	1182.0	1277.0	1463.1	1531.5	1571.1	1450.6
25°	1264.4	1254.2	1236.0	1212.8	1207.6	1267.7	1456.6	1552.9	1631.6	1535.7
27.5°	1381.7	1367.3	1332.4	1297.4	1267.7	1293.7	1470.1	1586.9	1700.0	1634.8
30°	1510.6	1492.9	1458.0	1391.9	1344.5	1351.9	1502.2	1631.6	1787.5	1747.0
32.5°	1700.0	1659.0	1598.1	1497.1	1434.3	1414.7	1550.6	1688.4	1895.9	1896.4
35°	1862.4	1839.6	1778.2	1652.5	1523.6	1498.0	1614.4	1768.4	2046.2	2094.2
37.5°	1969.0	1937.8	1883.8	1789.3	1662.3	1583.7	1699.5	1866.6	2205.4	2319.4
40°	2088.1	2057.4	1985.7	1896.8	1823.3	1730.7	1807.0	1979.7	2379.9	2550.7
42.5°	2231.9	2191.9	2107.2	2011.3	1934.5	1924.3	1947.6	2120.7	2559.1	2802.0
45°	2400.8	2363.1	2265.9	2144.9	2077.4	2059.3	2124.4	2285.0	2758.7	3077.5
47.5°	2559.1	2515.3	2410.6	2300.3	2225.4	2168.2	2312.4	2479.0	2984.9	3365.6
50°	2693.6	2648.9	2553.0	2435.3	2384.6	2309.6	2497.2	2695.4	3209.2	3658.3
52.5°	2785.7	2746.1	2633.5	2553.5	2519.0	2481.3	2713.6	2924.8	3432.6	3926.3
55°	2764.8	2729.4	2630.3	2624.7	2622.4	2661.9	2972.3	3185.0	3660.1	4179.9
57.5°	2698.2	2658.2	2534.4	2619.6	2701.9	2822.9	3252.5	3492.6	3909.6	4419.1
60°	2502.3	2488.3	2412.9	2609.8	2735.4	2980.7	3572.6	3801.6	4179.5	4629.5
62.5°	2087.6	2099.7	2099.3	2630.3	2795.9	3160.3	3863.5	4114.3	4443.3	4831.9
65°	1563.2	1605.1	1658.6	2446.0	2876.9	3481.0	4211.1	4453.6	4711.4	5067.4
67.5°	1050.3	1083.8	1120.1	2006.7	2635.9	3817.9	4788.6	4918.5	5032.5	5328.5
70°	601.3	612.0	662.7	1253.2	2031.8	3724.8	5729.2	5776.2	5511.4	5650.0
72.5°	336.9	333.2	400.2	594.7	1135.5	3189.6	6058.6	6517.0	5940.0	5644.9
75°	225.2	225.7	275.5	375.1	442.6	2232.8	5221.0	6042.8	5683.1	5005.5
77.5°	153.6	158.7	202.4	289.9	204.8	1089.4	3454.0	4233.0	4601.1	3865.4
80°	66.5	67.0	133.6	208.0	138.2	346.7	1790.7	2267.7	2885.8	2170.5
82.5°	34.4	39.1	85.2	134.5	87.0	121.5	846.0	990.8	1210.9	637.1
85°	12.1	14.4	52.6	66.1	43.7	43.3	294.6	300.2	256.4	95.9
87.5°	0.0	2.3	20.5	16.3	5.6	5.1	34.9	29.3	23.3	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°
1054.1	0°	1054.1	1054.1	1054.1	1054.1	1054.1	1054.1	1054.1	1054.1	1054.1	1054.1
1064.8	2.5°	1055.0	1042.4	1022.0	996.8	967.5	951.7	928.9	914.9	902.4	902.8
1079.2	5°	1056.4	1035.4	983.3	927.9	866.5	821.4	771.1	735.7	708.8	702.2
1094.1	7.5°	1060.6	1025.2	940.0	847.9	745.5	669.7	600.3	556.6	531.9	525.4
1109.4	10°	1066.2	1014.0	891.2	750.2	623.1	531.9	474.2	446.3	435.1	426.7
1129.0	12.5°	1070.8	1002.4	829.8	649.2	514.2	443.0	399.3	376.0	366.2	360.2
1151.8	15°	1078.7	987.0	763.2	555.2	440.7	382.5	341.1	323.9	321.1	322.0
1176.9	17.5°	1086.6	972.2	688.7	481.7	386.7	329.5	304.4	301.6	305.3	309.0
1205.8	20°	1095.5	950.7	613.4	426.3	336.9	292.7	286.2	288.1	289.9	296.4
1245.3	22.5°	1108.5	923.8	547.3	379.3	295.5	275.0	271.8	273.2	274.6	281.1
1297.4	25°	1127.1	894.9	493.8	336.0	269.4	260.6	257.3	257.3	259.2	265.3
1357.9	27.5°	1146.7	854.0	450.5	296.0	254.1	244.8	239.2	239.2	241.5	248.5
1433.8	30°	1168.5	816.7	416.5	266.2	241.1	229.0	221.5	219.7	222.4	231.3
1543.6	32.5°	1208.1	792.5	392.3	252.2	229.4	214.5	204.3	199.2	202.0	212.2
1697.2	35°	1268.1	786.9	375.6	245.2	218.3	201.5	187.1	179.2	181.5	192.2
1886.6	37.5°	1338.4	798.6	359.3	235.9	207.6	188.9	169.9	159.6	163.3	173.1
2103.0	40°	1439.4	847.0	346.7	229.0	196.9	174.0	152.6	142.4	148.5	156.8
2328.2	42.5°	1561.3	933.1	343.4	222.4	183.8	158.2	136.8	129.4	134.0	141.9
2555.8	45°	1712.6	1042.9	358.3	214.1	169.4	142.9	124.3	120.1	121.5	129.4
2770.8	47.5°	1875.0	1155.5	399.3	206.6	156.8	130.3	114.5	110.8	109.8	117.3
2967.2	50°	2039.2	1255.6	447.7	201.0	148.0	120.1	107.0	102.4	100.1	104.7
3161.3	52.5°	2201.7	1335.1	479.3	191.7	139.1	109.8	100.5	93.5	89.4	91.7
3354.4	55°	2366.4	1404.9	481.2	177.8	130.8	103.3	94.0	86.1	81.0	81.0
3540.5	57.5°	2520.4	1466.4	453.7	159.2	119.1	97.3	85.2	78.6	73.1	71.2
3705.7	60°	2656.8	1512.0	408.1	138.2	108.9	89.4	76.3	71.2	64.2	60.5
3852.8	62.5°	2778.3	1534.3	345.8	116.8	96.3	80.0	67.9	62.4	53.1	48.4
4002.2	65°	2881.1	1511.5	280.6	96.8	85.6	69.8	58.2	52.6	42.3	36.8
4170.2	67.5°	2983.0	1407.3	212.2	81.4	74.5	58.6	47.9	42.8	35.4	30.7
4292.6	70°	2996.0	1188.1	148.5	68.4	61.9	45.1	38.6	35.4	28.9	24.7
4019.4	72.5°	2667.0	854.9	90.3	55.8	48.4	32.1	30.7	27.9	21.4	18.6
3284.1	75°	2131.9	524.0	53.1	41.9	32.1	22.8	22.8	20.0	14.4	12.1
2267.3	77.5°	1473.4	274.1	31.2	27.0	19.1	13.5	14.9	12.1	7.0	5.6
898.2	80°	590.1	104.2	16.8	12.6	8.8	6.0	5.1	2.8	1.4	0.9
184.3	82.5°	117.7	27.5	5.6	3.3	3.3	1.4	0.0	0.0	0.0	0.0
50.7	85°	30.2	6.0	1.4	0.9	0.9	0.0	0.0	0.0	0.0	0.0
16.8	87.5°	9.3	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°
1054.1
913.1
712.0
531.9
431.9
363.5
323.4
310.4
298.3
282.9
267.6
251.3
233.6
215.0
195.5
175.9
158.2
143.3
133.1
121.9
106.6
93.5
81.9
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