

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: P945813

Luminaire Tested: **GALN-SB1C-927-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945813  
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-SB1C-927-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

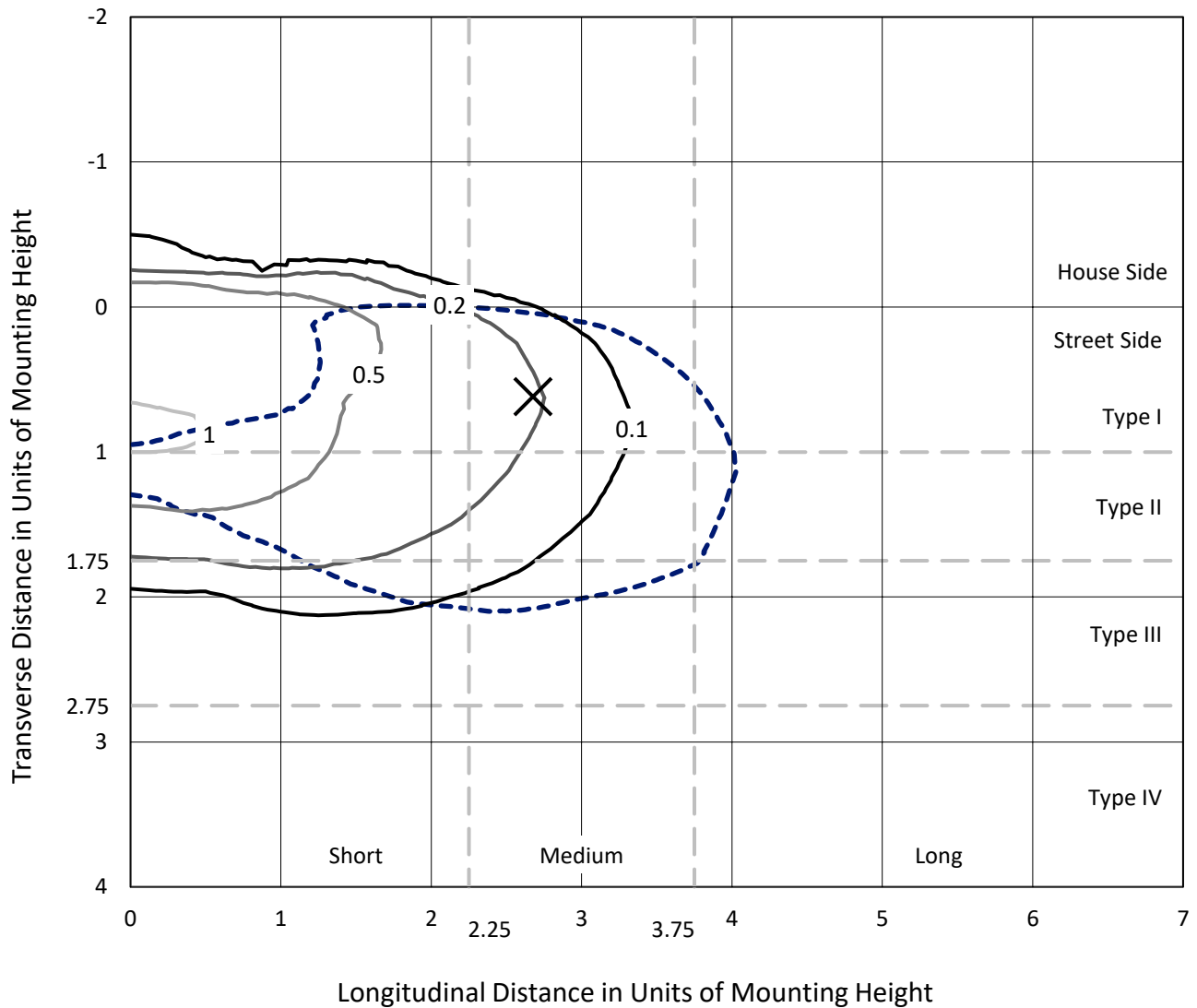
Lumens per Lamp: N/A  
Luminaire Lumens: 3796 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

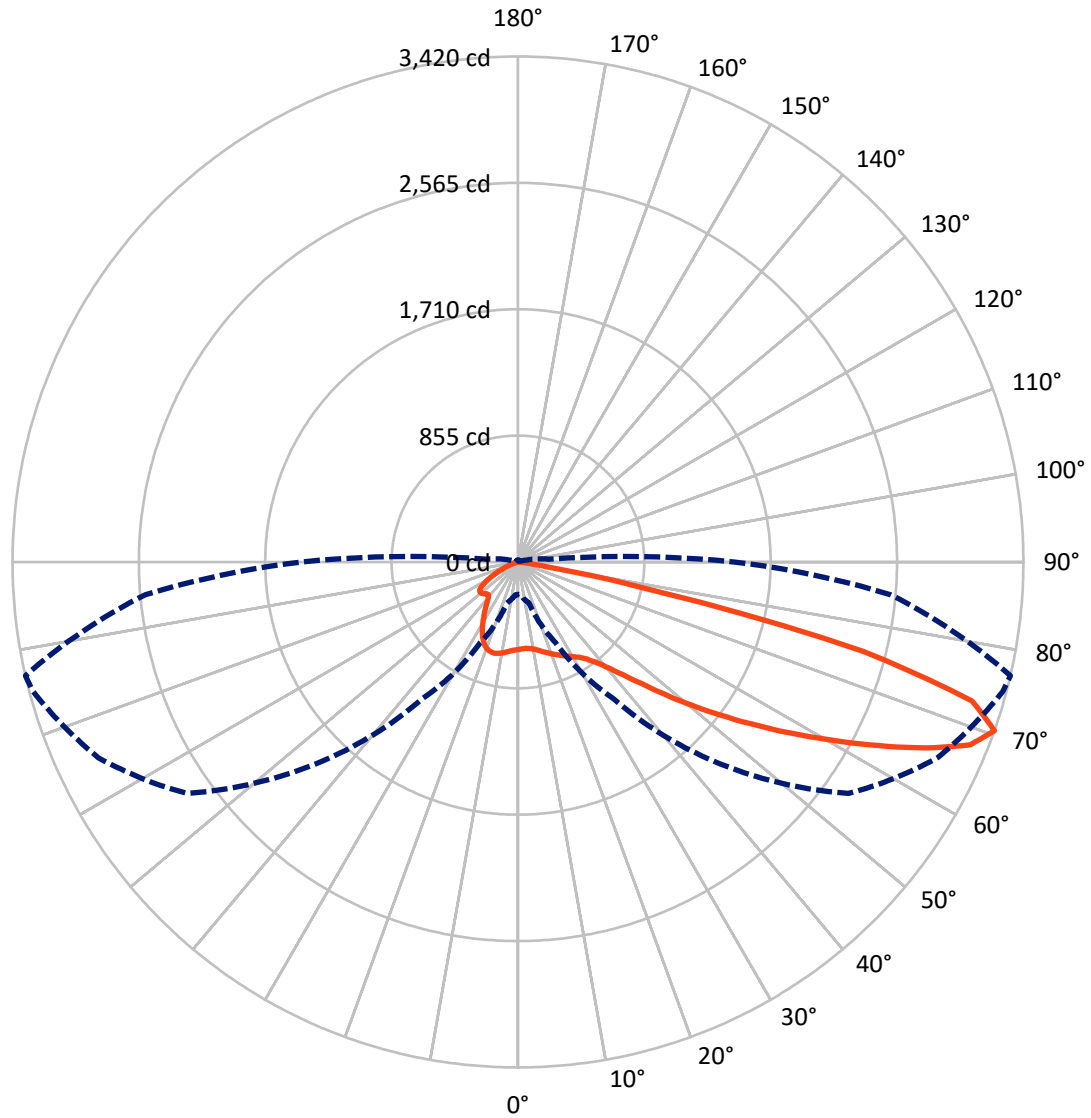
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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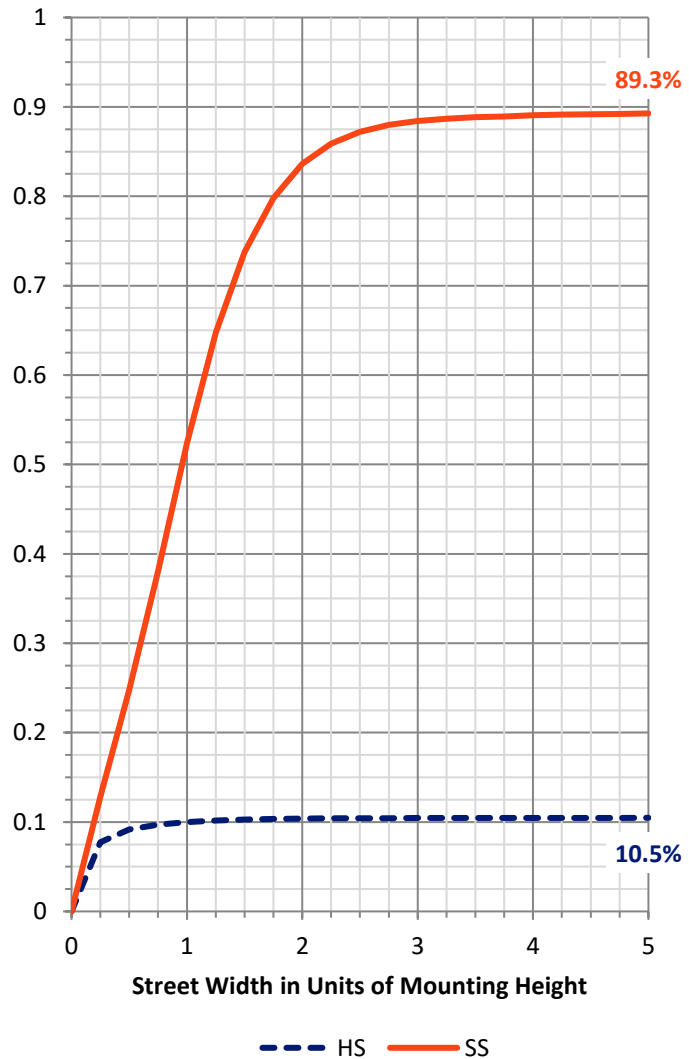
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	400.2	0.0	400.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	3395.8	0.0	3395.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	3796.0	0.0	3796.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.0	1.3
10°-20°	121.1	3.2
20°-30°	187.4	4.9
30°-40°	340.0	9.0
40°-50°	641.8	16.9
50°-60°	927.3	24.4
60°-70°	987.1	26.0
70°-80°	523.1	13.8
80°-90°	17.2	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°	3796.0	100.0
0°-180°	3796.0	100.0

**Coefficient of Utilization**



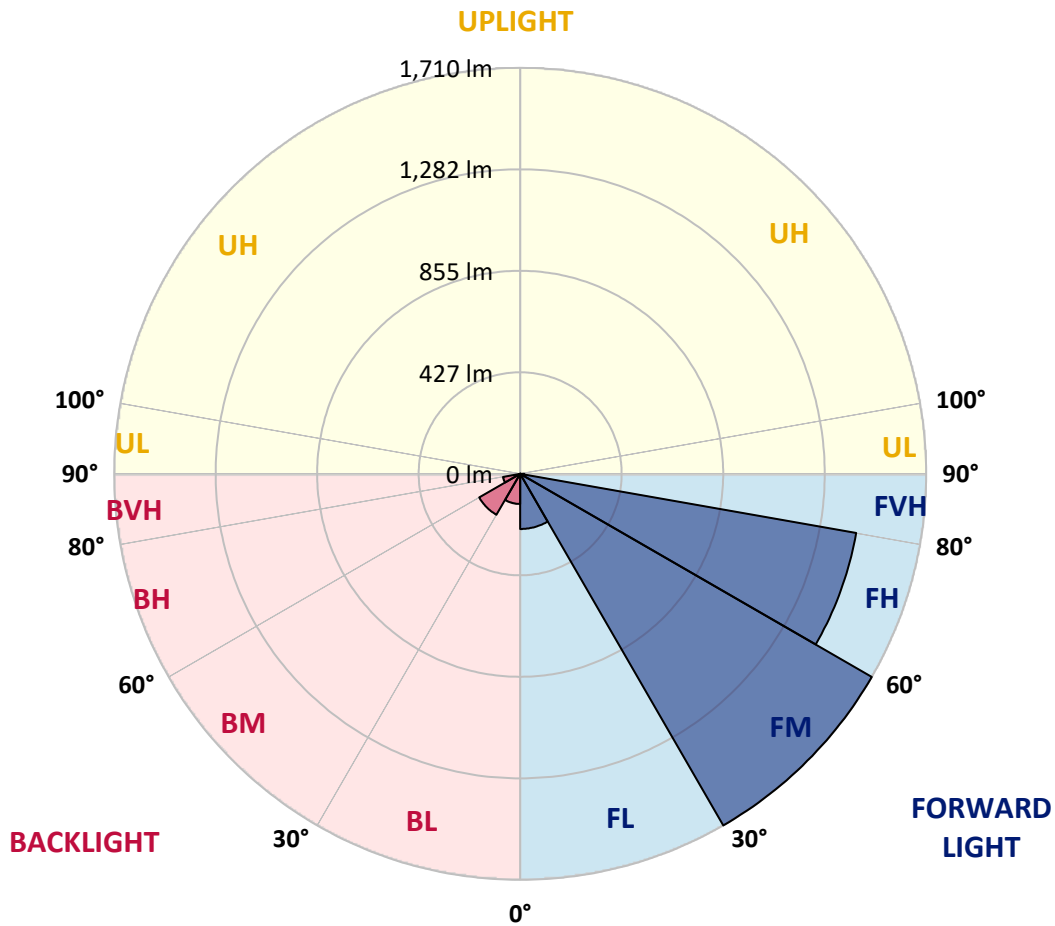
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	232.4	6.1			
FM (30°-60°)	1709.9	45.0			
FH (60°-80°)	1436.8	37.9			G1/1800
FVH (80°-90°)	16.7	0.4			G1/100
BL (0°-30°)	127.1	3.3	B1/500		
BM (30°-60°)	199.2	5.2	B0/220		
BH (60°-80°)	73.4	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	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-G1**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1
2.5°	555.9	560.9	560.2	563.6	564.8	569.6	574.4	580.8	588.0	587.8
5°	524.5	529.5	530.7	535.3	541.0	548.5	558.3	571.3	584.7	586.8
7.5°	487.3	492.6	495.7	504.8	515.4	530.7	546.8	565.7	588.0	591.1
10°	450.2	455.0	459.1	472.0	488.8	511.6	537.7	565.0	595.0	599.5
12.5°	427.2	431.7	436.3	447.6	468.4	496.2	531.7	568.4	606.5	613.0
15°	419.0	423.1	426.7	436.8	456.2	487.8	530.5	575.3	621.1	629.7
17.5°	420.2	422.4	424.8	432.5	451.4	484.0	532.7	587.3	638.4	646.0
20°	427.2	428.4	428.6	433.9	450.7	483.5	537.0	598.8	654.7	665.0
22.5°	436.0	436.5	436.0	439.6	455.2	487.1	542.7	612.7	672.9	682.5
25°	477.5	468.4	456.9	450.0	462.9	494.1	551.4	631.4	692.8	702.1
27.5°	606.3	580.1	538.9	492.6	478.7	504.1	563.3	650.4	712.9	721.3
30°	815.3	781.0	711.0	606.7	529.5	525.2	578.9	669.3	734.3	743.4
32.5°	1024.8	1016.4	935.6	791.3	643.9	572.2	604.8	694.9	762.5	769.7
35°	1236.7	1219.7	1153.5	1010.9	820.1	667.9	648.0	728.5	799.7	807.9
37.5°	1399.0	1388.7	1347.7	1230.2	1029.1	815.5	721.8	780.5	853.6	862.8
40°	1542.4	1537.6	1523.7	1446.2	1262.8	1008.7	836.6	861.1	928.4	939.2
42.5°	1655.0	1666.3	1674.2	1652.6	1503.8	1229.3	991.0	974.2	1032.7	1043.7
45°	1770.3	1774.2	1806.0	1837.2	1743.0	1459.9	1165.0	1106.8	1162.4	1176.1
47.5°	1844.4	1859.7	1915.8	1970.7	1944.1	1688.6	1352.0	1263.3	1312.7	1338.4
50°	1849.9	1878.9	1956.1	2051.8	2090.6	1906.3	1555.3	1441.7	1494.2	1522.5
52.5°	1758.1	1803.2	1922.8	2062.8	2169.7	2090.6	1765.5	1620.0	1687.4	1724.3
55°	1347.9	1406.9	1797.4	2002.9	2172.8	2230.4	1970.3	1805.8	1902.7	1944.4
57.5°	1174.4	1204.1	1413.1	1898.8	2115.0	2286.7	2155.3	1982.7	2136.9	2188.6
60°	977.1	1016.2	1185.2	1728.6	2036.7	2292.2	2318.8	2210.9	2390.7	2449.0
62.5°	664.0	706.5	874.5	1436.2	1929.5	2289.6	2452.8	2445.9	2672.9	2735.4
65°	411.4	438.0	548.7	1172.7	1779.7	2292.4	2593.0	2731.1	2970.6	3034.1
67.5°	325.1	337.3	395.1	900.4	1521.5	2227.7	2733.0	2999.4	3250.8	3301.2
70°	218.4	225.8	287.4	603.6	1132.0	1929.0	2730.4	3134.1	3395.1	3420.3
72.5°	115.1	120.8	168.0	279.5	683.7	1371.2	2301.5	2973.0	3251.6	3213.7
75°	57.5	67.1	113.1	141.9	292.0	764.7	1429.2	2344.0	2559.2	2412.5
77.5°	43.6	52.7	93.5	93.5	101.6	257.5	605.3	1278.4	1179.2	981.9
80°	27.8	36.0	81.7	70.7	42.4	65.4	157.7	358.1	250.5	190.6
82.5°	16.3	23.5	68.1	46.7	23.7	24.2	44.6	76.2	65.0	50.6
85°	6.5	15.3	46.7	18.5	9.3	6.0	13.4	16.3	13.4	10.1
87.5°	0.0	3.6	8.2	0.0	0.7	0.5	1.0	1.2	1.2	1.0
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°
592.1	0°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1
592.6	2.5°	594.7	595.2	596.7	596.9	593.5	589.2	587.6	586.8	584.0	583.7
596.4	5°	601.9	604.1	601.9	595.7	580.8	560.0	544.2	531.2	519.5	515.9
609.6	7.5°	616.3	618.5	612.0	587.6	550.2	508.7	471.3	444.9	421.2	412.3
625.7	10°	636.9	639.8	619.4	570.1	503.9	437.2	374.0	329.4	294.6	280.5
647.5	12.5°	662.8	664.0	623.5	543.4	443.7	348.6	258.9	211.2	180.3	168.8
673.9	15°	691.4	689.7	624.0	507.2	361.7	246.4	169.0	138.8	126.3	122.5
700.2	17.5°	721.3	714.4	614.4	455.0	271.8	168.5	125.4	118.2	116.0	115.1
726.4	20°	750.8	735.2	596.9	386.7	195.1	125.9	113.9	111.7	110.5	110.0
752.7	22.5°	777.7	751.0	566.9	307.3	141.7	111.2	107.6	105.7	103.6	102.6
778.4	25°	803.8	760.2	524.7	233.2	113.4	104.0	101.2	97.6	94.7	93.5
805.9	27.5°	829.2	765.9	472.0	172.6	101.2	97.3	92.1	87.0	84.9	84.4
835.4	30°	856.3	767.8	412.1	128.7	93.7	88.9	81.3	75.5	74.3	74.6
875.2	32.5°	889.4	770.7	351.7	105.5	87.5	78.9	69.8	63.8	62.8	63.8
933.2	35°	928.9	776.5	293.4	97.1	82.0	68.6	58.7	53.7	52.7	53.5
1007.5	37.5°	982.6	785.8	239.0	95.4	77.4	59.9	49.4	45.3	45.3	45.5
1098.6	40°	1054.0	810.7	190.3	94.2	75.0	53.5	41.7	40.0	40.8	41.2
1214.7	42.5°	1141.1	863.7	157.5	92.8	72.4	50.6	37.9	37.2	38.4	38.8
1353.7	45°	1238.6	930.8	146.0	90.4	70.0	52.5	36.2	35.2	36.7	36.9
1509.5	47.5°	1339.6	996.5	144.6	87.7	67.6	55.4	35.7	33.6	35.2	35.5
1675.9	50°	1441.7	1039.4	146.0	83.7	63.8	55.4	36.0	31.9	33.3	34.0
1848.5	52.5°	1544.5	1059.1	145.0	74.8	57.1	52.0	36.0	30.4	31.9	32.4
2035.0	55°	1644.2	1055.2	130.4	61.6	48.4	46.0	35.0	29.2	30.2	30.4
2211.2	57.5°	1723.1	1001.8	103.3	47.9	39.3	38.4	31.9	27.8	28.5	28.3
2372.7	60°	1764.3	884.3	73.8	36.9	30.9	30.2	28.0	25.9	26.4	25.2
2509.6	62.5°	1764.8	729.0	49.4	29.2	24.7	24.0	24.0	23.3	22.8	20.4
2615.6	65°	1727.2	556.6	32.8	23.3	19.9	18.7	20.1	19.9	18.2	14.9
2647.9	67.5°	1641.8	364.9	24.9	18.2	15.3	14.6	16.1	16.8	15.6	12.5
2530.0	70°	1466.4	212.4	20.6	14.1	11.5	10.8	12.9	14.4	12.9	10.1
2162.5	72.5°	1218.0	114.6	16.8	10.5	7.9	7.2	10.3	11.7	10.3	7.4
1387.5	75°	790.4	61.4	12.9	7.0	4.1	4.6	7.7	8.6	7.2	4.8
407.3	77.5°	265.4	27.1	8.2	3.4	1.9	1.9	4.6	5.3	3.4	1.7
74.1	80°	59.2	11.3	3.4	1.4	0.7	0.7	1.0	1.0	0.5	0.0
22.8	82.5°	19.4	4.6	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
5.8	85°	7.4	1.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.9	87.5°	2.9	0.2	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>
592.1
584.2
513.7
408.7
274.5
165.2
122.5
114.8
109.6
102.4
93.0
83.9
74.6
63.5
53.2
45.3
41.2
38.8
37.2
35.7
34.3
32.4
30.4
28.3
24.9
19.7
14.4
12.2
9.6
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0.0
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