

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: P945794

Luminaire Tested: **GALN-SB1C-850-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-850-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

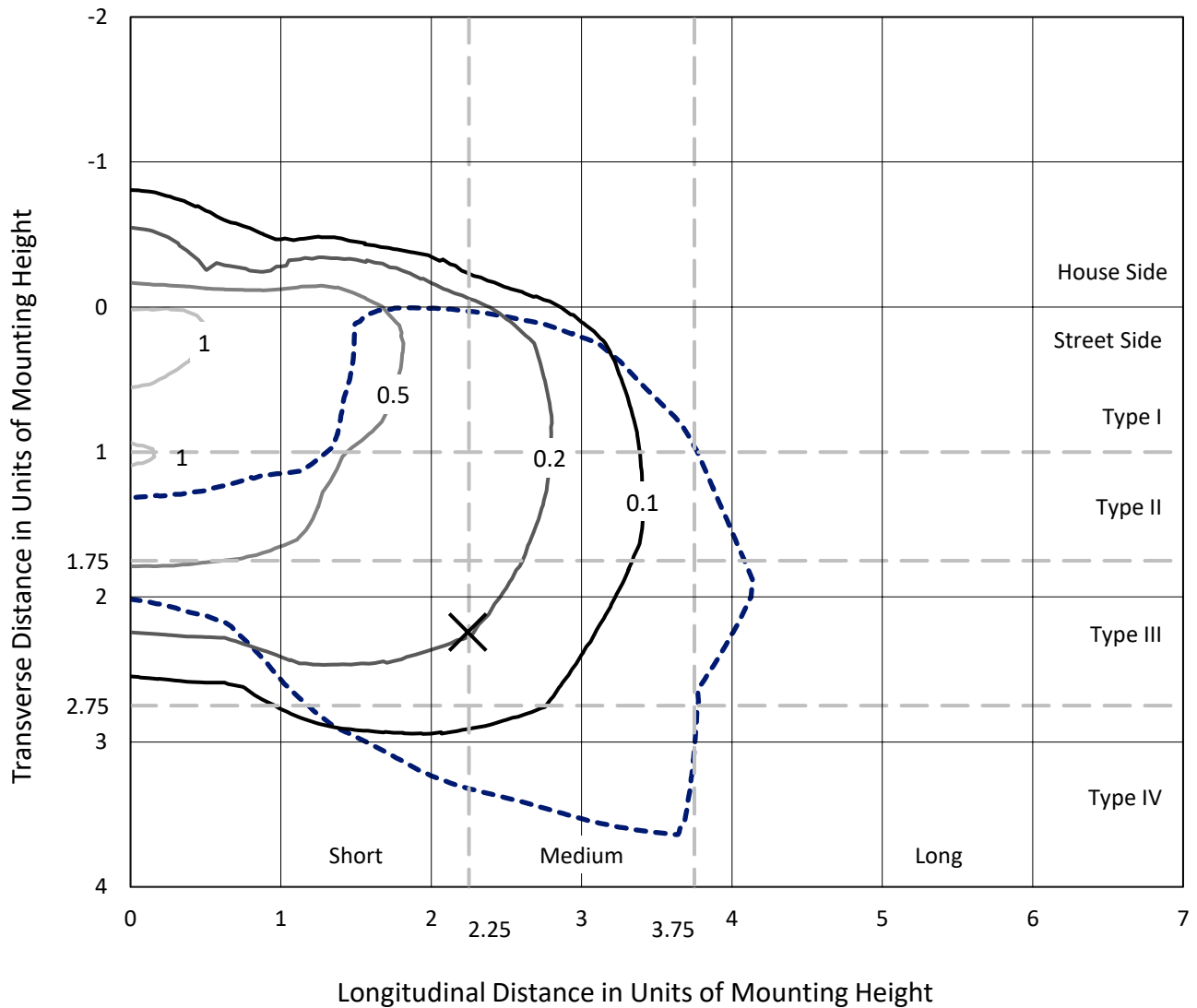
Lumens per Lamp: N/A  
Luminaire Lumens: 5520 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

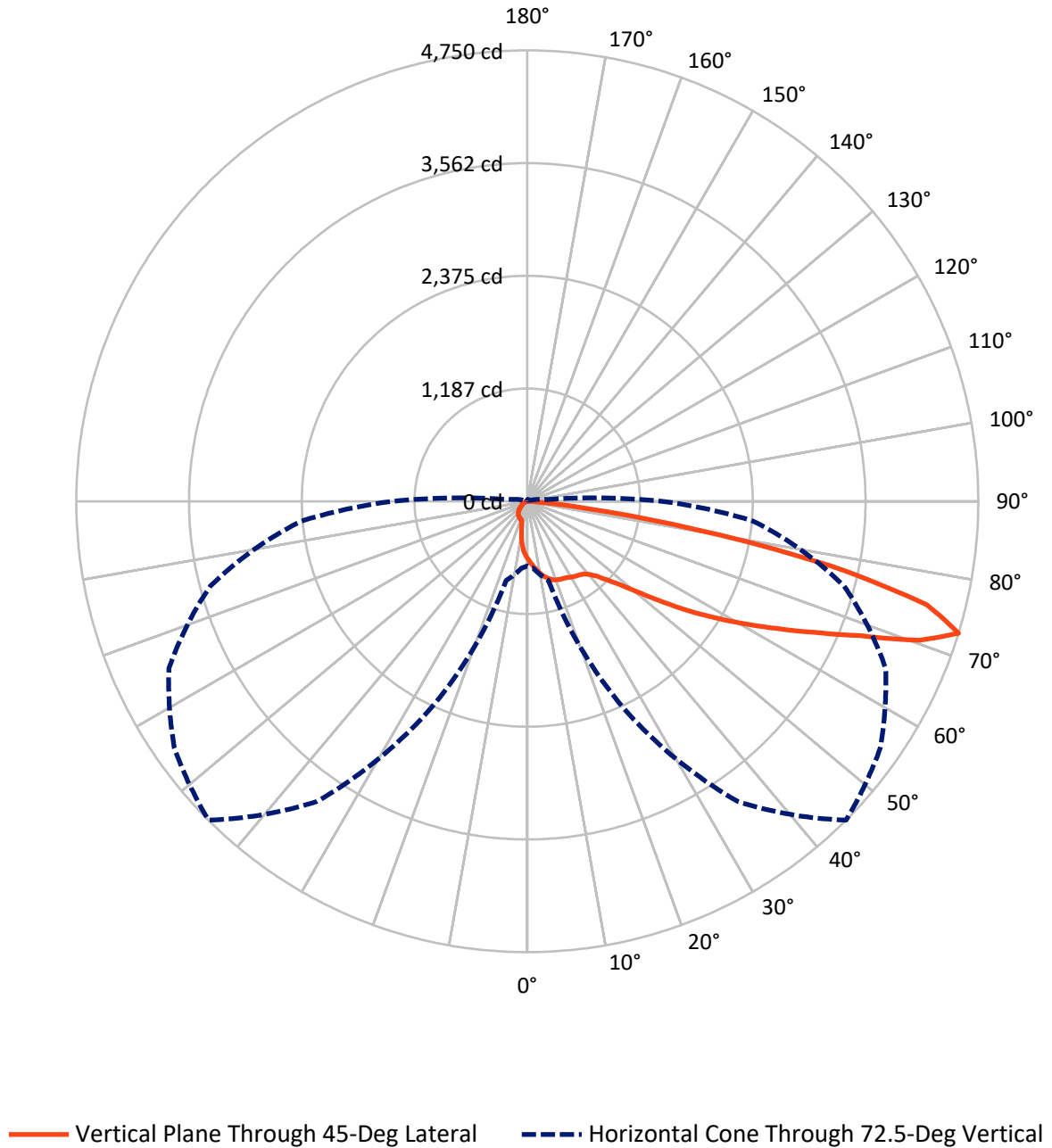
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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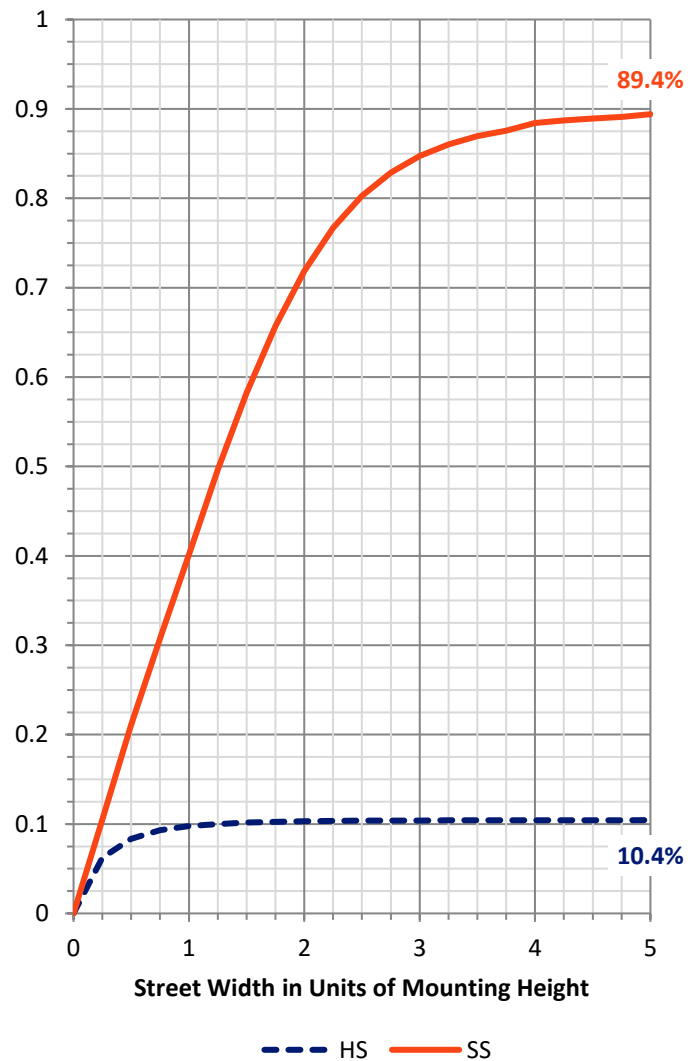
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	580.0	0.0	580.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	4940.0	0.0	4940.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	5520.0	0.0	5520.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.0	1.0
10°-20°	166.5	3.0
20°-30°	273.5	5.0
30°-40°	387.8	7.0
40°-50°	641.0	11.6
50°-60°	1151.5	20.9
60°-70°	1599.0	29.0
70°-80°	1159.8	21.0
80°-90°	83.9	1.5
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°	5520.0	100.0
0°-180°	5520.0	100.0

**Coefficient of Utilization**



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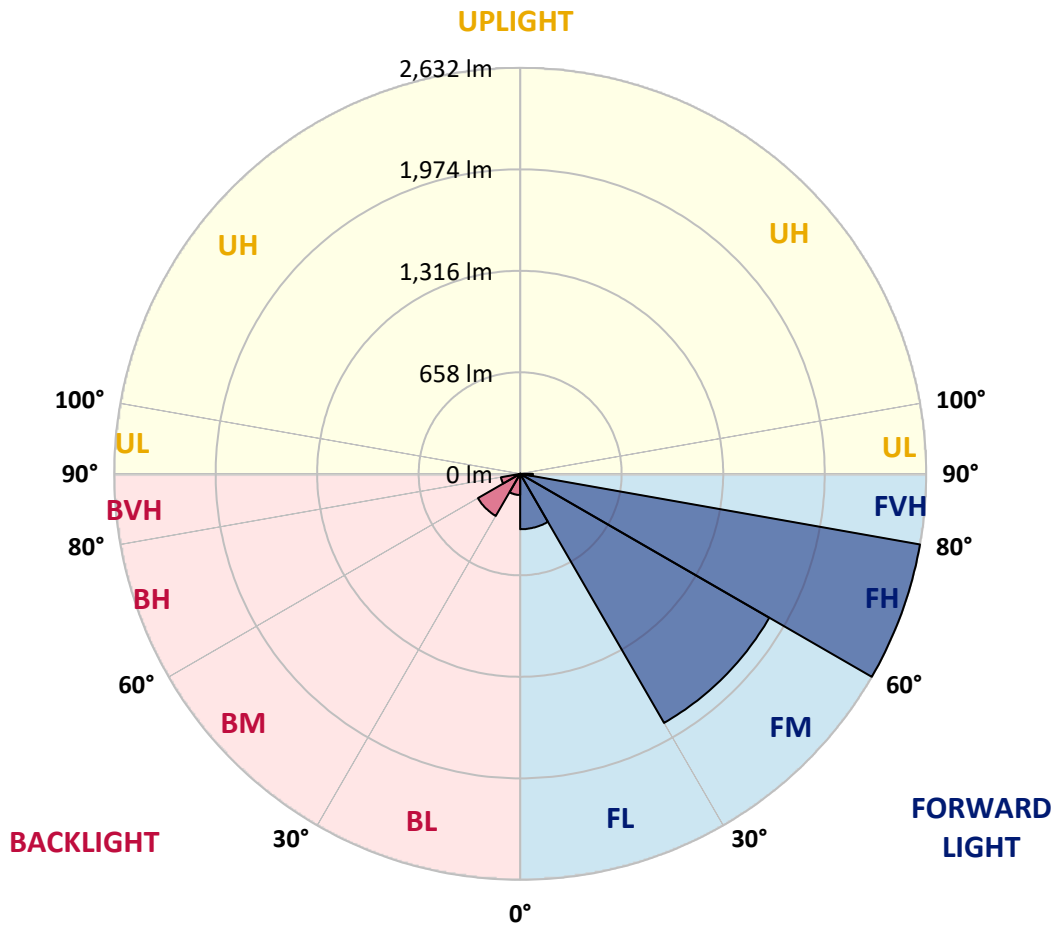
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	359.6	6.5			
FM (30°-60°)	1865.0	33.8			
FH (60°-80°)	2632.3	47.7			G2/5000
FVH (80°-90°)	83.1	1.5			G1/100
BL (0°-30°)	137.4	2.5	B1/500		
BM (30°-60°)	315.4	5.7	B1/1000		
BH (60°-80°)	126.5	2.3	B1/500		G1/500
BVH (80°-90°)	0.7	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7
2.5°	660.5	661.6	660.9	656.3	648.8	644.7	642.4	634.9	630.0	621.3
5°	721.2	725.7	723.0	714.0	699.7	689.5	686.5	671.0	657.1	640.9
7.5°	785.6	787.8	782.9	771.3	752.0	734.7	732.1	710.6	688.4	663.5
10°	841.3	844.0	836.4	819.5	797.6	776.2	772.4	748.7	722.3	691.8
12.5°	888.1	890.7	880.9	860.6	836.4	814.2	810.4	785.6	756.6	722.7
15°	923.5	928.4	915.2	893.3	867.3	845.1	843.2	818.7	790.5	752.8
17.5°	944.2	949.1	936.7	910.3	888.1	869.2	867.0	846.6	820.2	784.1
20°	947.6	952.1	938.9	915.9	897.5	882.4	881.3	866.6	847.4	812.7
22.5°	937.4	943.1	931.0	912.6	899.7	891.8	890.3	882.0	871.1	841.7
25°	926.9	931.4	922.4	906.1	899.4	898.6	899.7	898.2	896.0	871.1
27.5°	926.1	931.0	920.8	905.4	901.6	909.5	910.7	917.8	919.7	897.9
30°	932.5	935.9	926.1	909.9	908.0	926.1	926.5	939.3	942.3	920.5
32.5°	946.5	950.2	940.4	916.7	914.1	939.3	940.4	957.4	962.3	944.6
35°	979.2	983.8	972.5	935.5	926.1	951.7	955.1	975.1	984.9	970.2
37.5°	1061.0	1047.8	1032.4	973.6	953.6	971.3	977.0	1000.3	1017.7	1000.7
40°	1264.1	1222.6	1174.4	1038.4	1001.9	1013.2	1017.7	1041.0	1064.8	1048.2
42.5°	1568.9	1519.9	1442.3	1187.6	1074.6	1080.2	1083.6	1104.0	1137.5	1124.3
45°	1840.6	1822.8	1743.7	1442.3	1210.6	1182.7	1186.8	1197.4	1246.8	1241.9
47.5°	2049.3	2039.1	1978.1	1734.7	1440.4	1308.2	1319.9	1324.7	1396.0	1413.3
50°	2209.8	2206.0	2151.4	1994.7	1740.7	1493.2	1497.3	1486.8	1593.4	1636.3
52.5°	2361.3	2374.1	2333.8	2236.2	2061.3	1735.4	1734.7	1684.9	1828.9	1893.7
55°	2498.0	2502.6	2506.7	2482.6	2383.9	2011.2	2004.1	1922.7	2102.0	2169.1
57.5°	2626.5	2628.4	2665.3	2714.7	2719.6	2307.4	2294.2	2196.6	2400.4	2448.3
60°	2712.8	2721.5	2799.5	2936.6	2996.5	2613.0	2605.8	2506.3	2704.1	2726.4
62.5°	2588.5	2641.2	2837.9	3109.9	3258.0	2951.7	2948.3	2854.8	3023.6	3005.6
65°	2095.3	2184.6	2530.4	3227.1	3514.6	3330.0	3334.9	3235.4	3351.8	3293.0
67.5°	1465.7	1559.9	1969.0	3236.5	3801.3	3774.2	3802.4	3646.5	3700.3	3568.5
70°	1013.5	1062.1	1328.5	3033.8	4024.7	4386.1	4385.3	4151.3	4047.0	3693.9
72.5°	681.6	706.8	862.8	2406.9	3860.5	4749.7	4727.8	4537.2	4163.8	3454.7
75°	287.5	305.9	399.4	1352.6	3054.2	4345.4	4286.2	4009.7	3699.6	2720.3
77.5°	91.2	99.1	157.5	484.2	1682.3	3266.3	3203.7	2504.1	2479.6	1364.7
80°	43.3	50.5	88.5	194.4	662.0	1776.5	1767.8	1136.0	1066.7	368.5
82.5°	18.8	22.2	49.0	104.0	296.1	633.7	646.6	386.6	319.9	139.8
85°	6.0	7.9	22.6	47.9	125.1	157.5	155.6	91.9	128.9	76.1
87.5°	0.0	0.0	7.5	10.9	12.8	9.0	10.2	7.9	35.8	21.1
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°
604.7	0°	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7
612.3	2.5°	607.7	601.7	591.2	581.4	572.7	564.0	558.8	551.2	550.5	550.5
622.1	5°	611.9	602.1	583.3	563.3	540.3	518.4	496.6	475.5	468.7	463.8
637.9	7.5°	623.9	608.5	578.7	540.7	497.0	449.1	415.6	379.4	365.5	357.9
659.0	10°	641.3	620.2	575.0	508.3	437.4	372.3	324.4	285.2	270.1	263.7
682.0	12.5°	660.5	634.5	568.2	468.0	372.3	294.3	247.5	229.5	227.2	227.2
709.5	15°	683.5	651.8	556.5	420.5	304.1	232.8	216.3	217.0	219.3	220.8
736.2	17.5°	707.2	670.3	538.0	367.4	243.8	209.5	209.9	211.0	212.9	214.4
765.2	20°	732.8	688.7	513.5	310.8	209.1	202.7	203.8	205.0	206.5	207.2
792.4	22.5°	760.3	706.1	484.5	255.5	197.4	197.1	197.4	198.6	200.4	200.4
824.0	25°	789.7	725.3	451.4	215.1	191.4	191.4	192.2	192.9	194.4	194.4
854.5	27.5°	819.9	743.0	416.3	194.0	186.1	185.8	185.8	186.9	187.6	188.0
884.7	30°	853.0	763.7	381.3	189.5	182.0	180.1	179.0	179.7	180.5	180.9
916.3	32.5°	886.9	783.7	350.0	191.4	177.8	174.4	170.7	169.9	169.9	171.4
949.1	35°	924.6	805.6	325.9	197.8	175.6	166.2	160.1	156.7	157.1	159.4
988.3	37.5°	969.8	831.9	308.2	203.5	174.1	156.7	146.9	142.8	140.2	142.8
1042.2	40°	1029.0	870.7	295.4	208.0	172.2	145.8	132.6	125.8	120.9	122.5
1125.8	42.5°	1116.0	931.8	290.5	208.4	168.0	133.0	117.9	108.9	101.7	102.1
1251.7	45°	1238.1	1028.2	315.7	203.5	159.0	119.1	102.5	90.4	85.9	84.8
1439.7	47.5°	1405.4	1168.8	374.1	193.3	145.8	105.5	87.4	77.2	73.8	72.0
1686.5	50°	1629.6	1349.2	438.9	182.0	132.6	92.7	75.0	68.6	66.3	64.4
1979.2	52.5°	1889.5	1532.4	492.1	170.7	119.4	81.4	67.1	63.3	61.4	59.9
2261.8	55°	2128.0	1658.6	489.1	158.6	106.6	72.3	61.4	59.2	56.9	55.4
2505.2	57.5°	2276.5	1676.3	403.2	145.4	91.9	65.2	56.1	54.6	52.0	50.1
2715.8	60°	2344.7	1575.3	282.6	128.1	77.2	58.4	50.5	49.7	46.3	43.7
2915.1	62.5°	2357.1	1387.7	188.4	106.6	64.4	52.0	44.8	43.7	39.2	34.7
3077.1	65°	2306.6	1119.4	130.4	83.3	55.0	45.2	38.4	36.2	31.3	26.8
3115.6	67.5°	2146.9	786.0	90.8	59.9	46.7	35.8	30.5	29.8	26.0	22.2
2919.6	70°	1854.1	448.0	60.7	44.8	36.9	24.5	24.1	24.9	21.1	18.1
2385.4	72.5°	1421.6	205.0	37.7	32.8	25.2	16.6	19.2	19.6	16.2	13.6
1488.3	75°	836.8	87.8	23.7	21.1	12.8	10.9	13.9	14.3	10.9	8.7
544.1	77.5°	284.8	33.2	15.1	12.4	6.4	6.0	9.0	9.0	6.0	3.4
109.3	80°	64.8	12.4	7.5	4.9	3.0	2.6	3.0	2.6	1.5	0.4
33.5	82.5°	18.5	4.9	3.0	1.9	1.1	1.1	0.4	0.0	0.0	0.0
11.7	85°	5.3	2.3	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
4.1	87.5°	2.3	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>
604.7
552.4
466.1
359.1
263.7
227.2
220.8
214.4
207.6
201.2
194.8
188.4
181.6
172.6
160.5
142.0
121.7
100.6
83.3
70.8
64.1
59.5
54.6
49.7
43.0
32.4
25.2
21.1
16.6
<i>12.1</i>
7.5
2.6
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