

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: P939158

Luminaire Tested: **GALN-SB1C-840-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-840-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

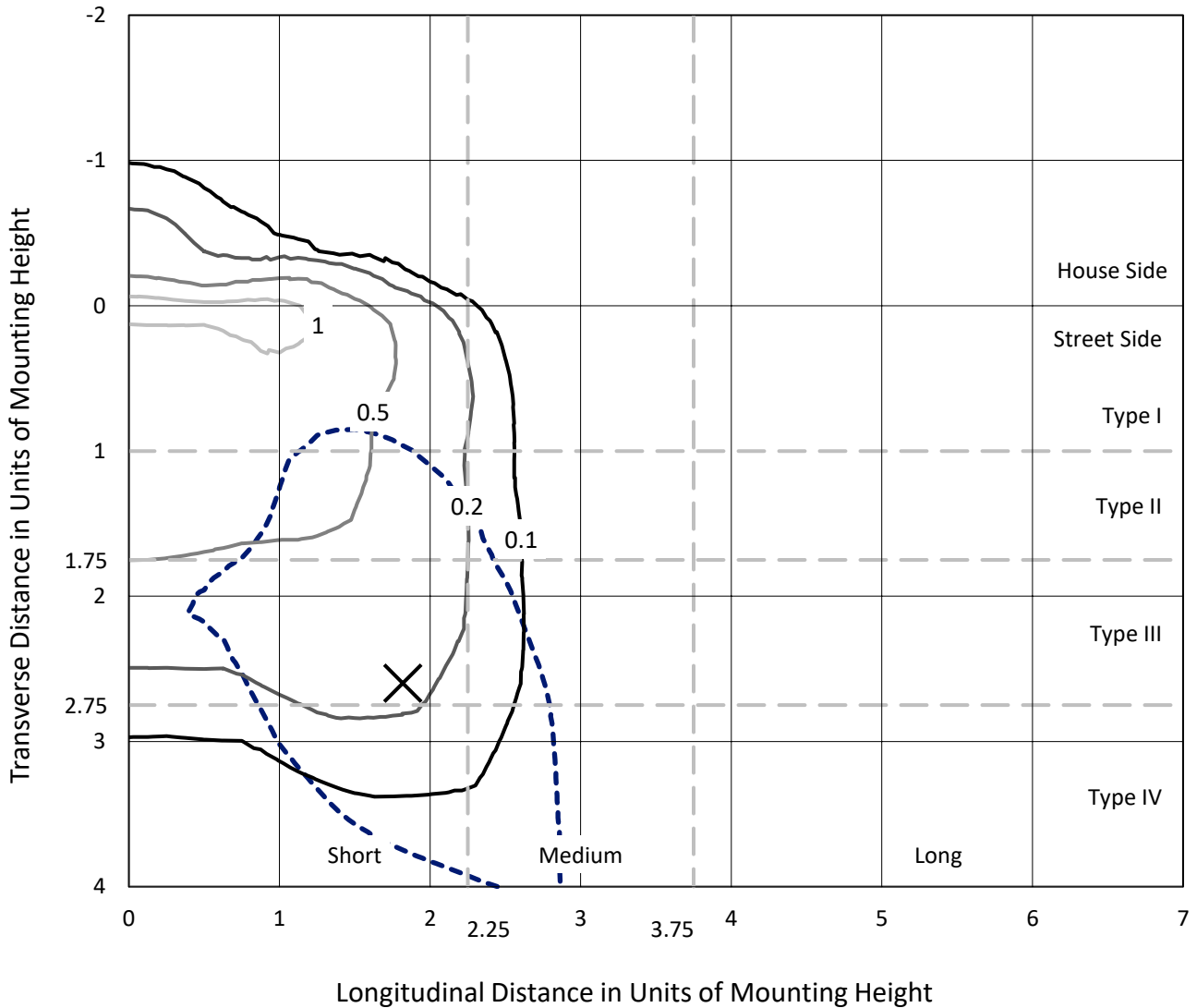
Lumens per Lamp: N/A  
Luminaire Lumens: 5426 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

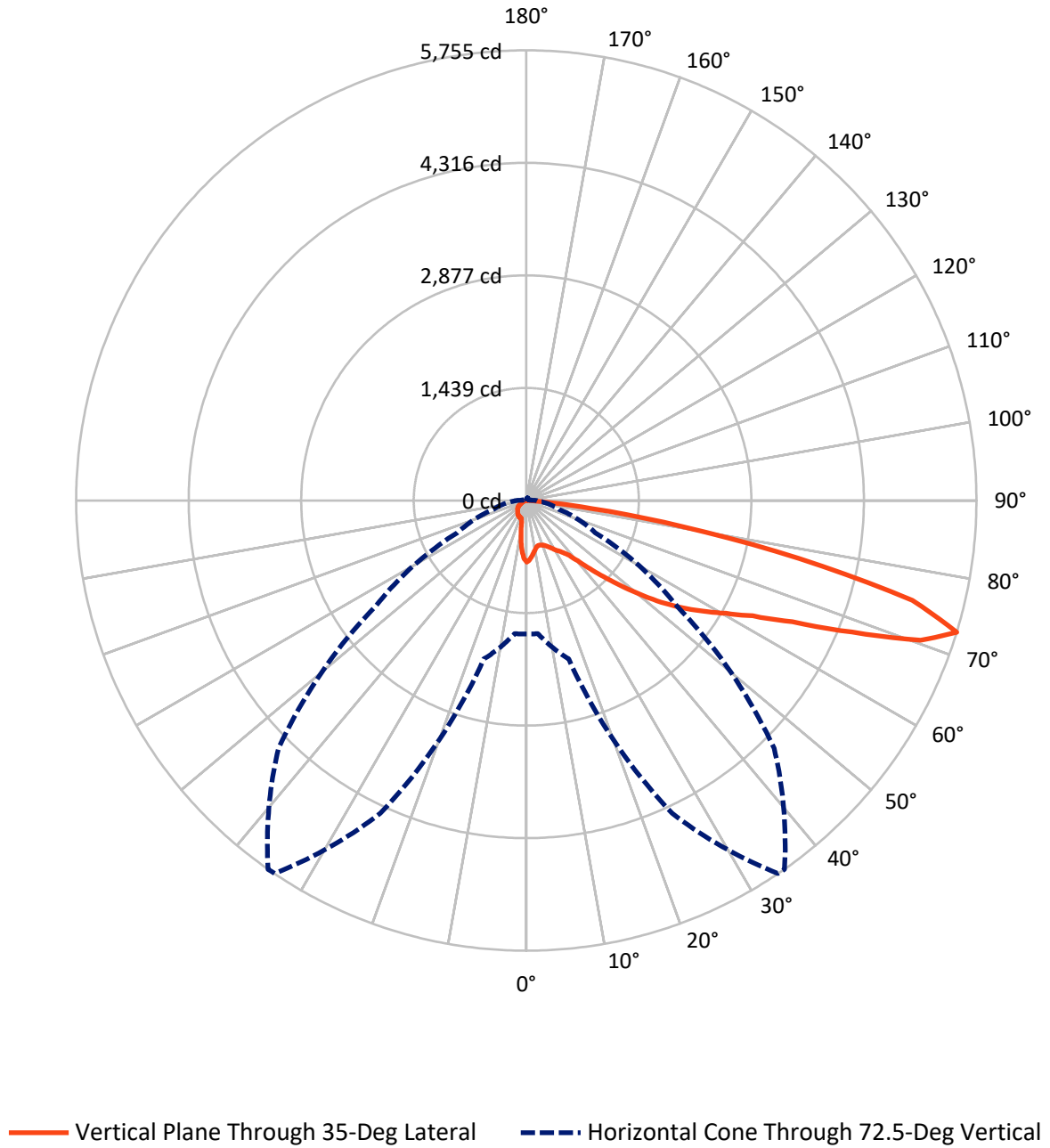
× Max cd  
 - - - 1/2 Max cd



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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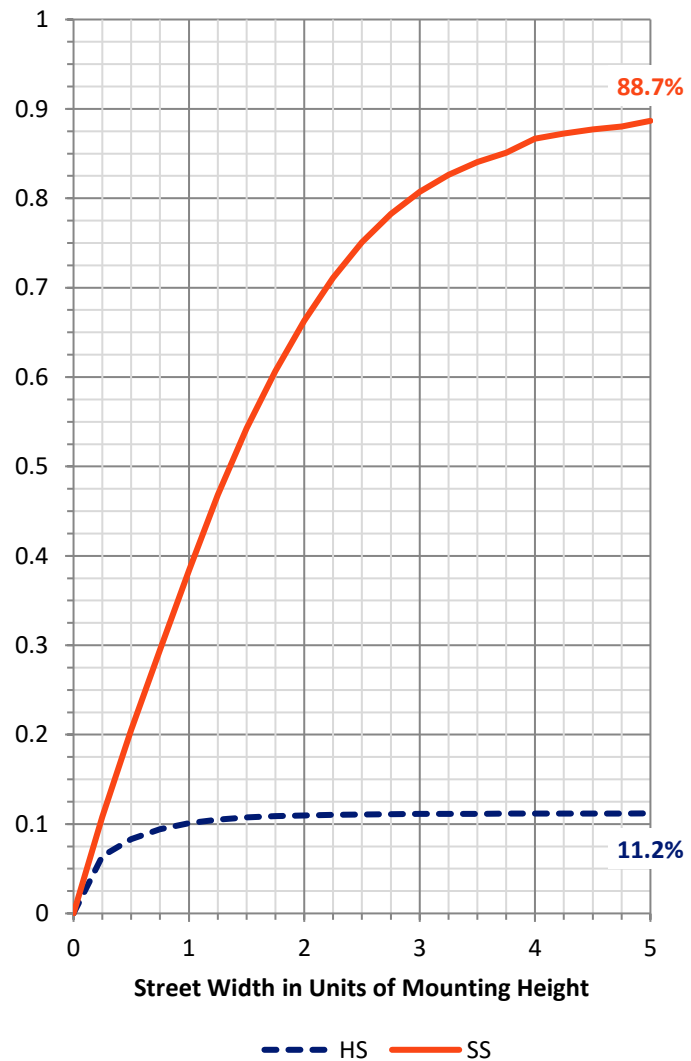
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	610.7	0.0	610.7
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	4815.3	0.0	4815.3
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	5426.0	0.0	5426.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.6	1.2
10°-20°	151.2	2.8
20°-30°	245.6	4.5
30°-40°	409.7	7.6
40°-50°	775.3	14.3
50°-60°	1231.9	22.7
60°-70°	1523.9	28.1
70°-80°	947.3	17.5
80°-90°	76.6	1.4
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°	5426.0	100.0
0°-180°	5426.0	100.0

**Coefficient of Utilization**



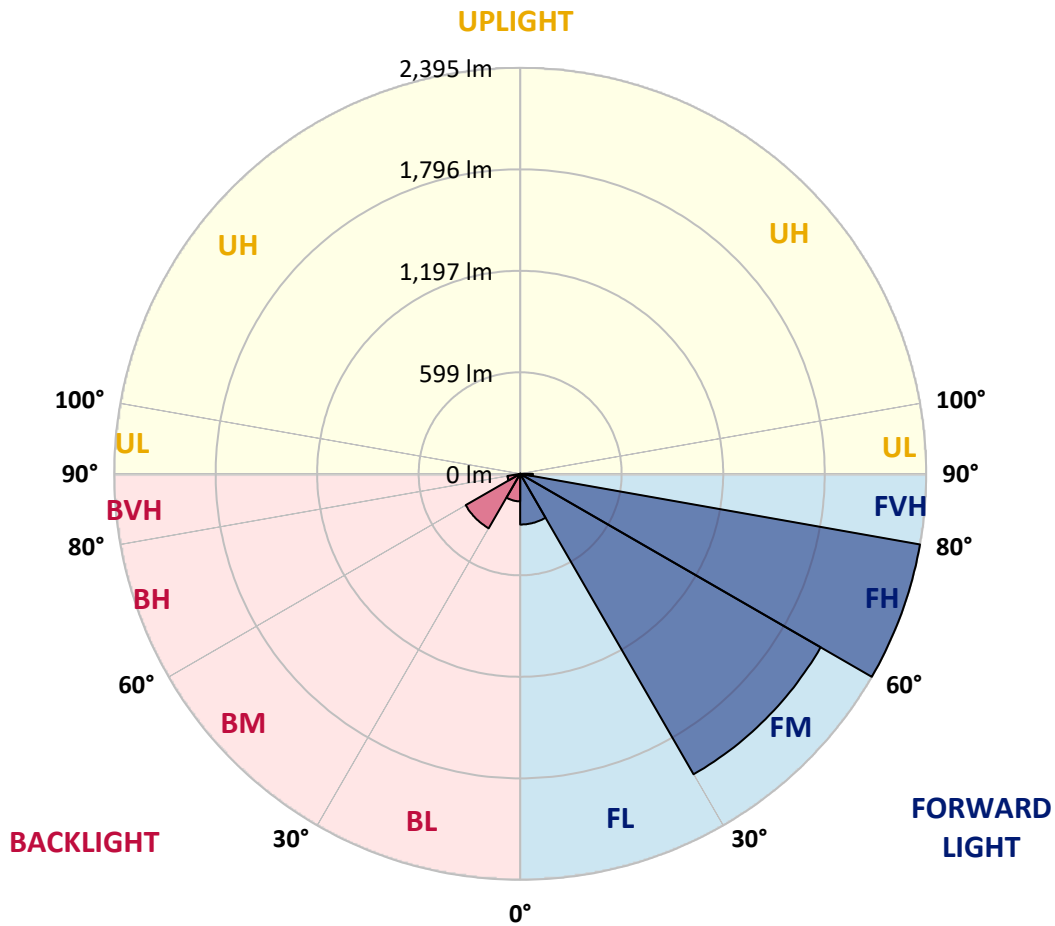
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	299.1	5.5			
FM (30°-60°)	2046.1	37.7			
FH (60°-80°)	2394.6	44.1			G2/5000
FVH (80°-90°)	75.5	1.4			G1/100
BL (0°-30°)	162.3	3.0	B1/500		
BM (30°-60°)	370.7	6.8	B1/1000		
BH (60°-80°)	76.6	1.4	B0/110		G0/110
BVH (80°-90°)	1.0	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°	34°	35°	45°	55°	65°	75°
0°	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4
2.5°	751.4	757.8	759.0	761.0	761.0	763.3	767.3	772.9	782.0	786.8
5°	692.6	697.4	703.3	708.1	717.2	718.4	733.9	749.0	770.1	786.0
7.5°	633.3	638.9	646.9	658.4	670.3	673.9	697.4	722.8	756.2	786.0
10°	591.6	592.0	599.2	610.7	629.8	634.1	662.8	698.9	740.7	781.2
12.5°	568.1	570.9	574.1	582.8	601.1	603.9	634.5	677.1	725.2	778.5
15°	568.1	570.1	572.1	576.5	591.2	593.6	620.6	663.2	717.2	779.7
17.5°	574.1	577.3	575.7	580.9	596.4	598.0	621.8	659.2	716.8	787.2
20°	588.4	590.8	587.6	590.8	606.3	609.5	634.1	666.7	723.6	800.3
22.5°	611.1	612.3	604.7	607.1	623.0	627.0	655.6	688.2	739.9	821.4
25°	639.7	642.1	630.6	633.3	648.4	653.2	686.2	720.4	765.7	850.4
27.5°	672.7	673.9	664.0	663.6	683.0	689.8	723.2	760.2	800.3	887.0
30°	710.5	714.1	704.5	702.9	727.6	733.1	766.1	809.1	851.2	941.9
32.5°	740.3	743.1	737.5	741.5	766.5	770.9	818.2	878.2	931.1	1019.8
35°	783.2	784.8	772.1	779.3	807.9	819.0	889.4	975.3	1031.7	1117.6
37.5°	938.7	938.7	884.6	849.2	876.7	886.6	986.8	1097.3	1155.8	1248.8
40°	1153.8	1150.2	1071.1	998.7	995.1	1014.6	1125.5	1251.2	1316.0	1406.2
42.5°	1383.2	1377.6	1269.9	1198.3	1186.4	1193.1	1285.8	1440.8	1506.8	1598.3
45°	1586.7	1585.1	1486.5	1390.3	1368.9	1390.3	1485.7	1662.7	1710.0	1806.2
47.5°	1757.3	1757.3	1685.3	1622.5	1611.4	1624.1	1756.5	1908.8	1904.4	2027.6
50°	1953.7	1952.1	1883.7	1856.7	1868.2	1886.1	2068.2	2168.0	2105.6	2245.1
52.5°	2091.3	2100.8	2077.3	2073.0	2131.8	2162.8	2384.7	2421.6	2285.7	2451.5
55°	2200.2	2211.3	2238.4	2269.0	2382.3	2422.8	2691.2	2662.2	2436.4	2630.4
57.5°	2354.5	2338.6	2380.3	2440.7	2624.0	2672.9	2988.2	2889.2	2557.6	2775.5
60°	2541.7	2544.1	2551.3	2627.6	2865.3	2928.2	3280.8	3103.9	2635.5	2864.5
62.5°	2766.7	2770.3	2785.0	2902.3	3189.4	3248.6	3592.5	3279.6	2671.3	2839.5
65°	2751.2	2766.3	2930.5	3331.7	3682.0	3740.4	3956.3	3402.9	2617.3	2610.5
67.5°	2506.3	2531.0	2805.7	3844.6	4424.6	4489.8	4396.0	3427.1	2383.9	2030.0
70°	2185.1	2193.8	2524.2	4305.8	5284.6	5350.6	4789.6	3160.3	1809.0	1132.3
72.5°	1706.4	1708.4	2096.0	4412.7	5751.4	5754.9	4480.7	2346.1	972.9	435.0
75°	1219.0	1207.0	1403.8	3578.6	5060.0	5100.5	3359.1	1100.5	371.7	205.5
77.5°	653.6	666.7	794.4	2122.3	3495.5	3564.7	1832.8	317.3	189.2	139.9
80°	202.0	213.1	325.6	971.7	1979.9	2021.7	679.5	141.1	132.0	99.8
82.5°	63.6	66.0	151.9	408.3	821.8	840.9	196.8	79.9	90.3	66.0
85°	18.3	18.7	67.6	152.3	203.2	207.1	55.3	31.0	51.7	41.0
87.5°	2.0	6.4	25.4	25.4	17.9	17.5	6.0	6.8	14.7	5.2
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°
786.4	0°	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4
790.0	2.5°	788.0	788.4	783.2	774.5	764.9	757.0	747.0	739.1	733.5	731.9
797.1	5°	793.6	790.8	776.1	749.4	717.6	690.2	659.6	635.3	619.4	612.7
804.7	7.5°	801.9	794.0	761.8	709.3	648.4	594.4	539.5	497.0	469.9	456.4
811.9	10°	809.1	793.2	737.9	651.2	558.2	476.3	402.3	351.1	322.4	308.9
820.2	12.5°	815.8	792.8	706.9	582.5	456.4	356.2	287.4	262.0	254.1	251.3
833.7	15°	828.6	794.0	667.9	503.7	355.0	269.2	244.1	243.7	245.3	244.5
854.4	17.5°	846.0	795.2	623.8	420.2	273.9	237.4	236.2	239.7	242.1	240.9
880.2	20°	868.7	799.9	576.9	337.5	235.4	229.4	232.2	235.4	237.4	235.4
914.8	22.5°	900.5	808.3	525.6	271.1	223.0	224.6	227.0	230.6	232.6	229.8
959.0	25°	939.5	821.4	475.1	235.8	217.1	219.1	222.6	226.6	229.0	226.2
1014.6	27.5°	990.0	842.5	428.6	227.8	211.1	212.3	217.5	223.4	226.6	223.0
1093.7	30°	1063.1	877.1	388.4	231.4	207.5	204.8	211.9	220.3	223.8	220.7
1201.5	32.5°	1160.1	926.0	363.8	237.0	205.9	196.0	202.8	213.5	219.5	217.5
1342.2	35°	1287.4	1000.3	354.2	243.3	204.8	186.9	191.6	203.2	213.5	215.5
1519.5	37.5°	1441.6	1103.7	357.0	246.1	201.2	179.3	181.7	191.6	205.2	211.5
1719.1	40°	1616.9	1224.1	372.9	243.3	197.2	172.9	173.3	180.9	192.8	202.4
1933.8	42.5°	1797.8	1364.9	402.3	233.0	193.6	167.4	166.2	171.4	179.3	186.1
2148.1	45°	1970.0	1509.6	431.4	218.7	189.2	161.8	159.0	161.0	162.6	165.4
2356.8	47.5°	2120.3	1611.4	423.0	205.5	183.3	155.5	150.7	149.9	145.1	144.7
2543.3	50°	2224.1	1633.6	375.7	192.4	174.5	148.3	140.7	136.0	127.6	123.6
2682.9	52.5°	2257.1	1545.8	306.9	179.3	160.2	138.8	128.0	120.5	110.1	106.6
2763.2	55°	2213.3	1373.6	245.3	163.4	140.3	126.0	114.1	104.2	95.8	91.4
2771.9	57.5°	2106.4	1154.6	194.0	144.7	119.3	111.7	99.8	89.9	82.7	78.3
2674.9	60°	1929.0	916.8	153.5	122.5	101.8	96.2	83.9	77.5	71.2	66.0
2424.4	62.5°	1659.9	654.4	120.5	97.0	85.1	78.7	71.6	66.8	59.2	52.1
1974.0	65°	1295.3	400.4	93.0	71.2	68.4	65.2	60.8	56.5	47.3	40.2
1287.8	67.5°	817.0	189.6	66.4	53.7	54.1	52.5	50.5	46.9	40.2	33.8
576.9	70°	359.8	91.8	43.7	41.0	40.2	40.2	41.7	40.6	34.2	28.2
200.4	72.5°	122.5	49.3	32.6	31.0	29.0	28.6	35.0	33.8	27.4	21.9
99.8	75°	64.0	33.0	23.9	22.3	17.5	21.1	27.8	26.2	19.5	14.3
66.0	77.5°	41.7	23.5	16.3	14.3	9.9	13.9	20.7	18.3	11.5	7.2
43.3	80°	26.2	15.5	9.5	6.8	4.8	7.6	11.1	8.0	4.4	1.6
25.4	82.5°	13.9	8.0	3.6	2.4	2.0	2.4	2.8	2.0	0.8	0.0
13.1	85°	5.6	2.8	1.2	0.8	0.4	0.0	0.8	0.4	0.0	0.0
2.4	87.5°	2.0	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>
786.4
734.7
615.1
458.4
309.3
250.5
244.1
240.5
235.0
229.4
225.8
223.0
220.3
217.5
215.5
213.1
205.5
188.8
167.0
144.3
124.0
106.2
91.4
77.5
64.8
50.9
39.0
33.0
27.0
20.7
13.1
6.4
1.2
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