

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: P945074

Luminaire Tested: **GALN-SB1A-850-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-850-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3634 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

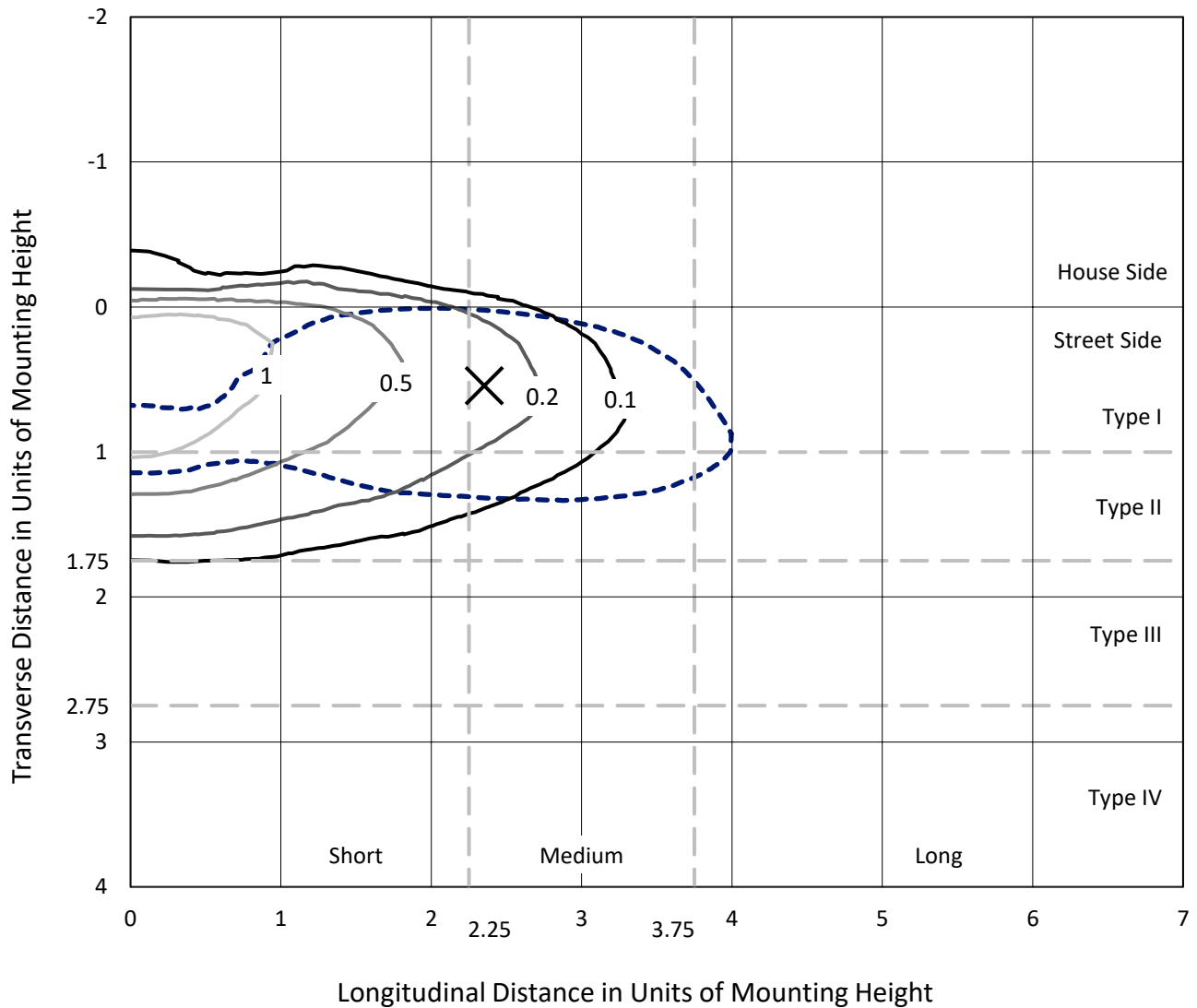
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

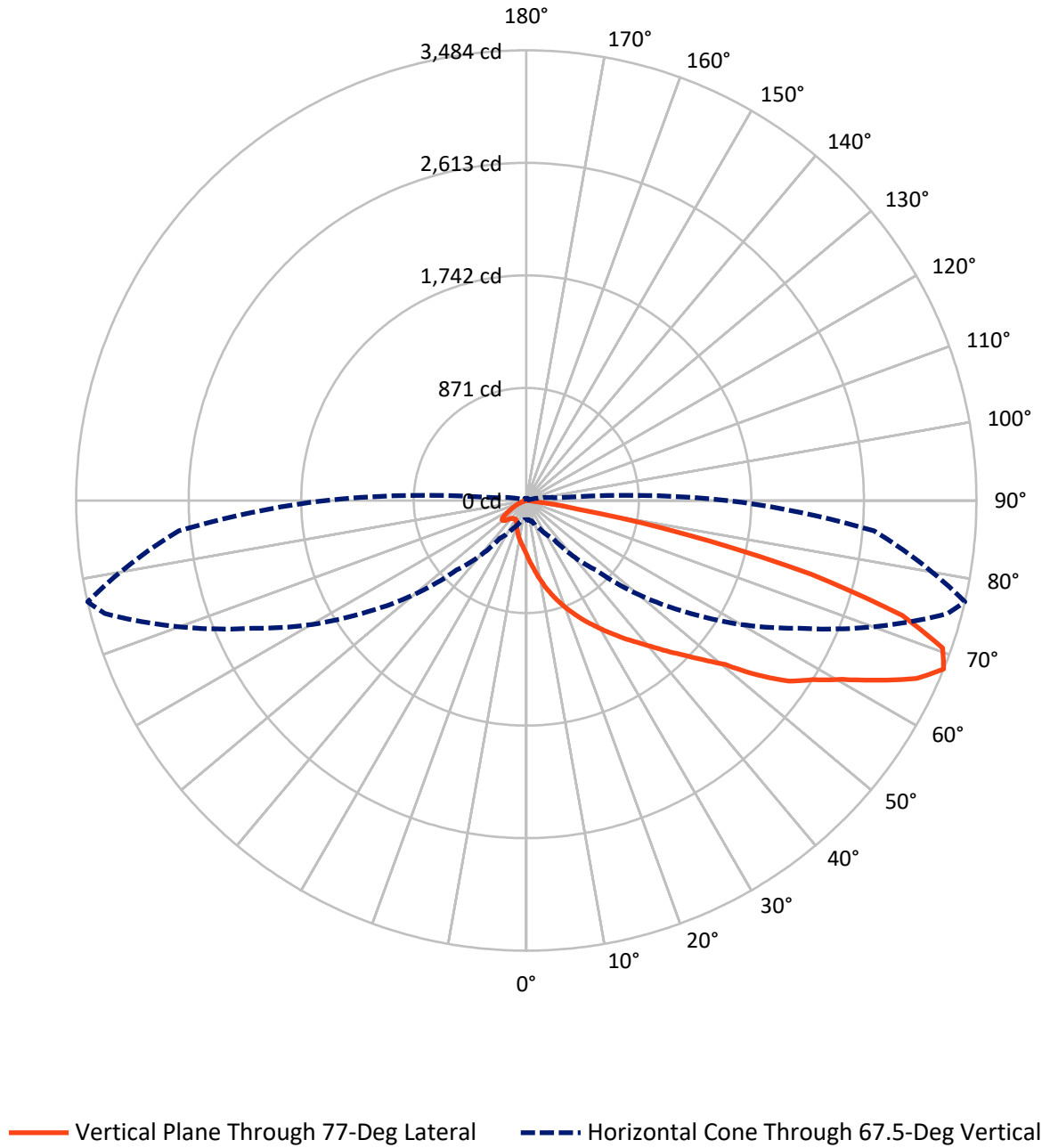
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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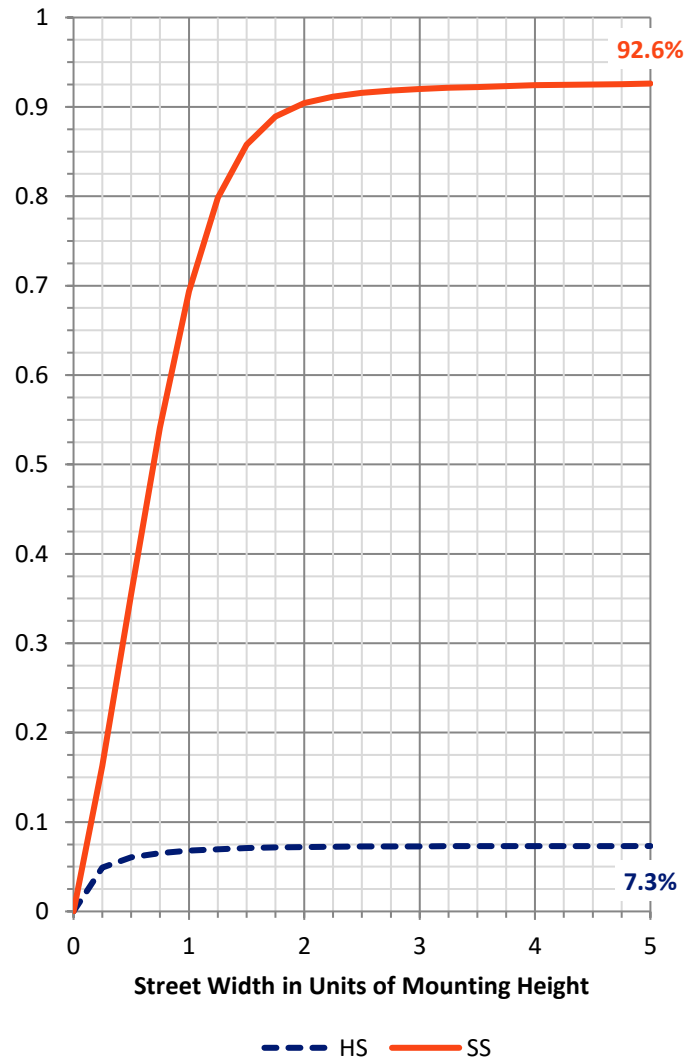
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	267.4	0.0	267.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	3366.6	0.0	3366.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	3634.0	0.0	3634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	1.2
10°-20°	149.8	4.1
20°-30°	289.0	8.0
30°-40°	501.8	13.8
40°-50°	728.6	20.0
50°-60°	836.6	23.0
60°-70°	726.4	20.0
70°-80°	342.1	9.4
80°-90°	16.9	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°	3634.0	100.0
0°-180°	3634.0	100.0

Coefficient of Utilization



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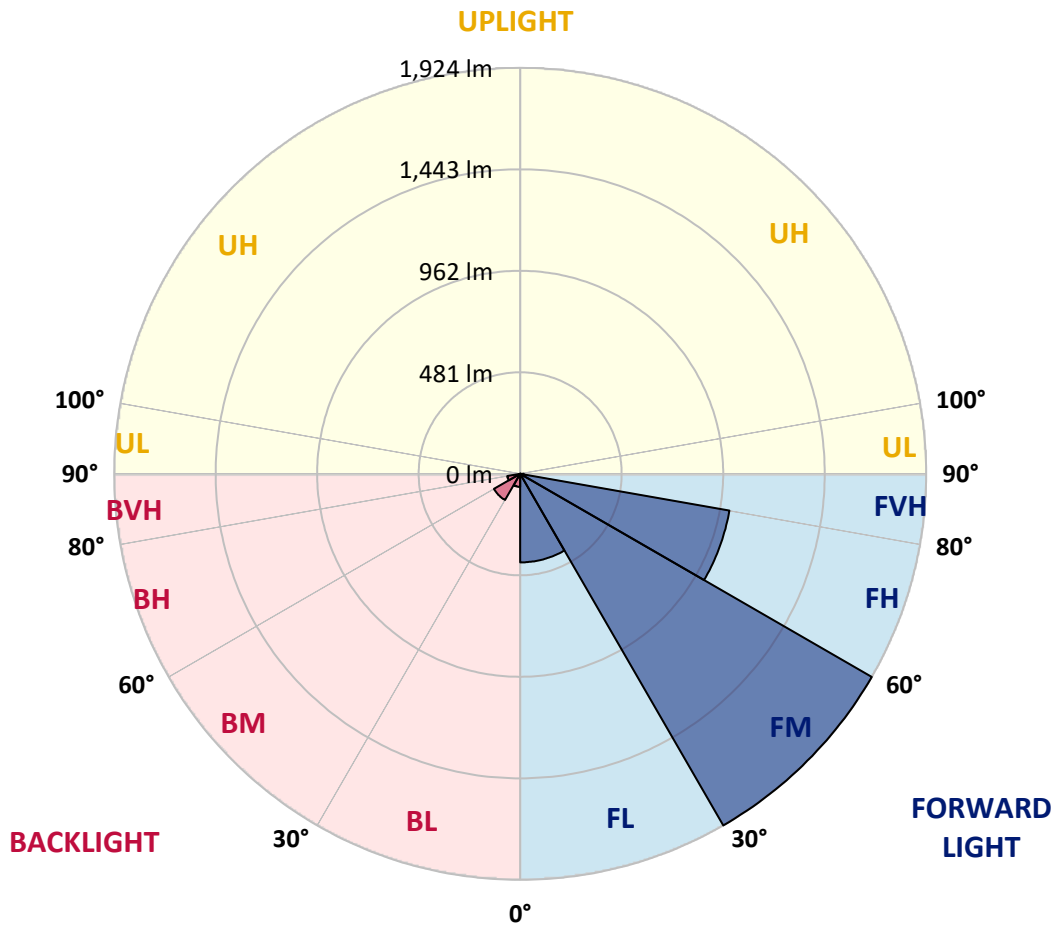
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.7	11.5			
FM (30°-60°)	1923.7	52.9			
FH (60°-80°)	1006.6	27.7			G1/1800
FVH (80°-90°)	16.6	0.5			G1/100
BL (0°-30°)	61.9	1.7	B0/110		
BM (30°-60°)	143.2	3.9	B0/220		
BH (60°-80°)	61.9	1.7	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1
2.5°	580.2	583.8	578.6	568.7	553.8	544.1	520.4	498.0	473.2	465.3
5°	707.2	710.4	704.5	693.7	673.8	654.9	623.7	577.0	528.5	512.9
7.5°	801.3	803.1	800.9	790.9	772.0	750.6	715.8	660.5	588.5	571.4
10°	869.0	874.9	874.2	870.4	857.7	840.4	803.4	740.4	655.8	633.7
12.5°	913.9	920.5	924.3	932.9	932.2	921.2	888.7	822.1	722.8	696.8
15°	927.0	934.0	948.7	968.5	986.1	991.8	969.0	902.2	796.6	763.4
17.5°	919.6	930.4	948.0	979.4	1018.0	1043.5	1041.0	979.6	863.6	825.7
20°	936.0	946.4	960.2	986.6	1031.5	1077.8	1096.3	1053.6	930.2	890.5
22.5°	1027.2	1025.4	1026.8	1031.0	1057.9	1103.7	1141.8	1120.9	996.1	955.5
25°	1171.6	1163.5	1149.7	1126.5	1119.7	1141.8	1181.6	1180.4	1065.6	1022.0
27.5°	1337.3	1335.9	1303.6	1247.7	1216.1	1207.5	1226.5	1238.4	1134.4	1087.9
30°	1495.9	1499.5	1456.0	1393.7	1335.7	1302.1	1284.9	1293.5	1204.4	1159.0
32.5°	1634.0	1637.9	1590.5	1517.6	1445.8	1405.2	1369.1	1347.9	1280.6	1231.2
35°	1750.7	1754.5	1700.1	1619.6	1543.1	1506.3	1465.4	1407.5	1357.4	1311.3
37.5°	1854.9	1853.8	1780.9	1699.7	1624.5	1595.4	1574.0	1480.8	1436.3	1391.9
40°	1916.5	1921.3	1859.0	1769.4	1696.5	1675.3	1674.0	1571.7	1527.5	1484.4
42.5°	1934.6	1942.9	1897.8	1824.2	1758.1	1735.1	1770.5	1670.1	1633.6	1591.6
45°	1902.1	1910.2	1889.7	1838.7	1800.1	1785.2	1853.6	1772.1	1746.8	1705.3
47.5°	1807.3	1817.5	1822.4	1811.6	1811.2	1826.3	1928.1	1879.5	1881.3	1838.9
50°	1623.9	1641.0	1686.6	1725.0	1784.3	1858.8	2000.5	1996.0	2033.0	1996.4
52.5°	1290.3	1314.7	1471.8	1576.7	1710.1	1852.7	2080.1	2182.8	2299.0	2245.6
55°	1036.9	1036.9	1164.6	1361.0	1565.2	1812.5	2114.9	2304.2	2480.2	2467.6
57.5°	845.3	855.5	936.9	1110.5	1355.5	1716.8	2136.3	2380.5	2626.2	2617.0
60°	521.7	543.6	697.5	868.8	1117.0	1546.5	2122.8	2457.7	2803.4	2810.8
62.5°	293.8	301.9	370.5	625.1	868.6	1317.4	2019.2	2500.8	3030.0	3061.6
65°	202.9	206.9	233.3	389.0	602.1	1048.9	1816.8	2473.9	3257.0	3320.8
67.5°	147.4	149.4	165.9	237.6	357.2	760.5	1499.5	2338.5	3377.3	3484.0
70°	113.3	114.6	126.6	156.2	211.0	469.4	1089.0	2069.3	3290.1	3417.6
72.5°	92.1	93.4	102.7	115.5	139.9	277.6	660.1	1680.5	2905.6	3043.3
75°	77.6	79.4	87.8	96.1	109.7	178.3	309.6	1170.3	2185.1	2275.3
77.5°	43.1	39.7	71.3	79.7	92.5	112.8	144.9	688.7	1223.8	1248.8
80°	26.9	27.8	56.6	64.1	71.1	56.9	66.3	265.2	424.2	403.0
82.5°	1.6	3.6	43.6	46.3	48.7	24.4	25.0	90.0	102.2	93.9
85°	0.0	0.0	19.9	16.0	16.9	7.0	7.2	21.0	13.8	14.9
87.5°	0.0	0.0	0.0	0.5	0.0	0.7	1.4	1.8	0.7	0.9
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°
419.1	0°	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1
440.5	2.5°	424.7	408.9	376.9	345.5	320.0	296.3	279.4	263.3	255.2	254.8
468.9	5°	437.6	404.4	340.3	283.7	238.1	201.5	177.8	160.9	152.3	149.4
503.9	7.5°	455.6	405.7	308.3	229.5	175.8	144.4	130.9	125.5	123.7	121.6
543.4	10°	478.4	408.9	279.6	184.8	138.6	122.8	117.3	115.1	113.7	112.4
587.8	12.5°	503.9	411.8	251.2	153.4	121.9	113.7	109.9	107.2	105.4	103.8
633.4	15°	528.7	413.6	221.6	131.6	113.3	106.7	102.7	99.7	97.3	95.5
678.1	17.5°	553.3	416.1	193.8	118.5	106.3	99.7	95.7	92.1	90.0	88.0
725.1	20°	580.6	415.7	167.7	109.2	99.3	92.7	88.5	85.1	83.0	80.8
774.7	22.5°	605.9	413.4	144.6	101.3	92.1	85.8	81.0	77.6	75.6	73.8
825.5	25°	635.0	411.6	125.5	94.1	85.3	79.0	73.8	70.6	68.4	66.8
876.5	27.5°	663.0	408.9	111.5	87.6	78.8	72.7	67.7	64.1	62.1	60.9
929.0	30°	690.5	408.2	106.3	81.2	72.9	66.8	61.8	58.4	56.9	56.4
986.8	32.5°	723.7	410.0	108.5	79.0	67.5	61.4	56.6	54.2	52.6	52.6
1051.1	35°	759.1	409.6	111.9	81.0	63.9	56.0	52.4	50.8	49.2	49.2
1122.4	37.5°	803.6	410.3	114.6	84.4	62.5	51.5	49.4	47.4	46.5	46.5
1200.5	40°	869.9	432.6	113.3	87.3	62.1	48.3	44.2	43.6	42.9	42.9
1288.8	42.5°	951.2	481.1	115.1	87.6	61.8	46.0	40.6	42.0	40.4	40.2
1388.3	45°	1040.1	534.1	126.6	82.8	61.6	44.9	38.8	40.4	37.9	37.9
1503.6	47.5°	1128.3	586.7	138.3	76.0	60.9	44.7	37.2	36.3	35.7	35.9
1653.9	50°	1249.9	629.6	142.8	66.8	59.3	44.2	34.3	34.5	34.1	34.5
1865.8	52.5°	1382.4	638.6	137.4	56.4	54.8	42.9	32.3	33.2	32.9	33.4
2014.9	55°	1465.0	628.9	113.5	46.9	47.8	37.5	30.2	32.0	32.0	32.0
2160.7	57.5°	1550.3	587.6	80.6	38.1	39.7	30.7	28.4	30.9	30.7	30.5
2336.3	60°	1611.7	520.8	53.0	31.4	31.6	25.3	26.4	29.1	28.9	27.8
2517.3	62.5°	1657.5	447.0	34.1	26.6	24.1	22.8	24.1	26.4	25.5	23.0
2670.7	65°	1652.3	344.8	26.2	22.8	19.9	19.9	21.0	23.0	20.3	16.2
2700.0	67.5°	1555.9	233.3	21.7	19.2	16.7	16.5	17.4	19.2	17.4	13.8
2549.8	70°	1383.8	152.5	17.4	14.9	13.3	12.2	14.0	16.5	14.7	11.1
2170.6	72.5°	1123.1	93.0	13.1	10.8	9.7	7.9	11.1	13.5	11.7	8.1
1509.5	75°	726.6	47.4	9.0	7.0	5.2	4.7	8.1	10.2	8.1	5.0
669.8	77.5°	278.0	19.9	5.0	3.2	2.7	2.3	4.5	6.1	3.4	1.1
129.8	80°	53.5	8.3	2.5	1.6	1.4	0.9	0.7	0.5	0.0	0.0
23.0	82.5°	9.3	2.7	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
4.5	85°	3.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.6	87.5°	1.1	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

<u>180°</u>
419.1
254.3
148.9
121.2
111.9
103.4
95.2
87.8
80.6
73.6
66.6
60.9
56.2
52.6
49.2
46.5
42.9
39.9
37.9
35.9
34.5
33.4
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30.5
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