

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: P945501

Luminaire Tested: **GALN-SB1B-935-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-935-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3911 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

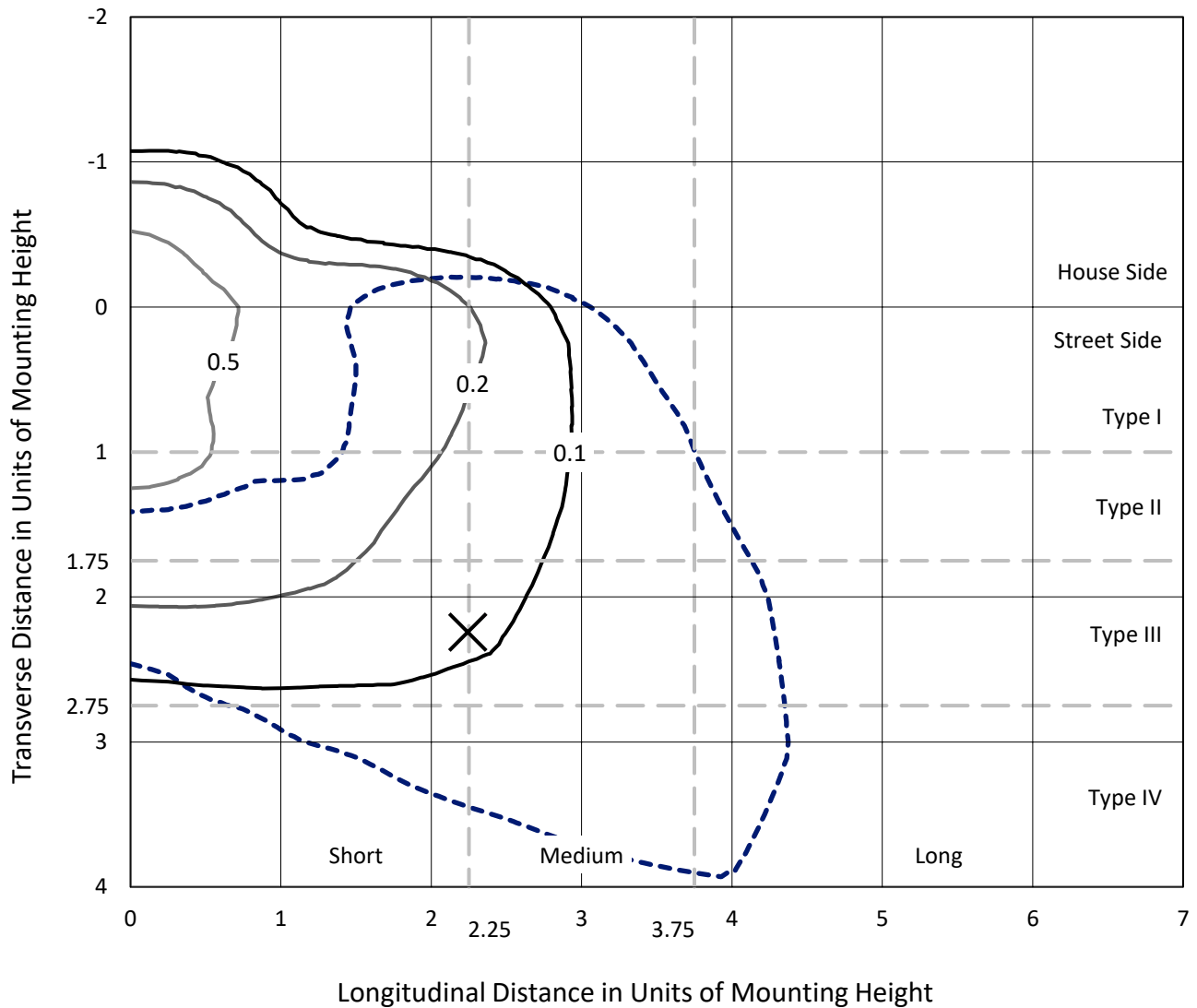
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

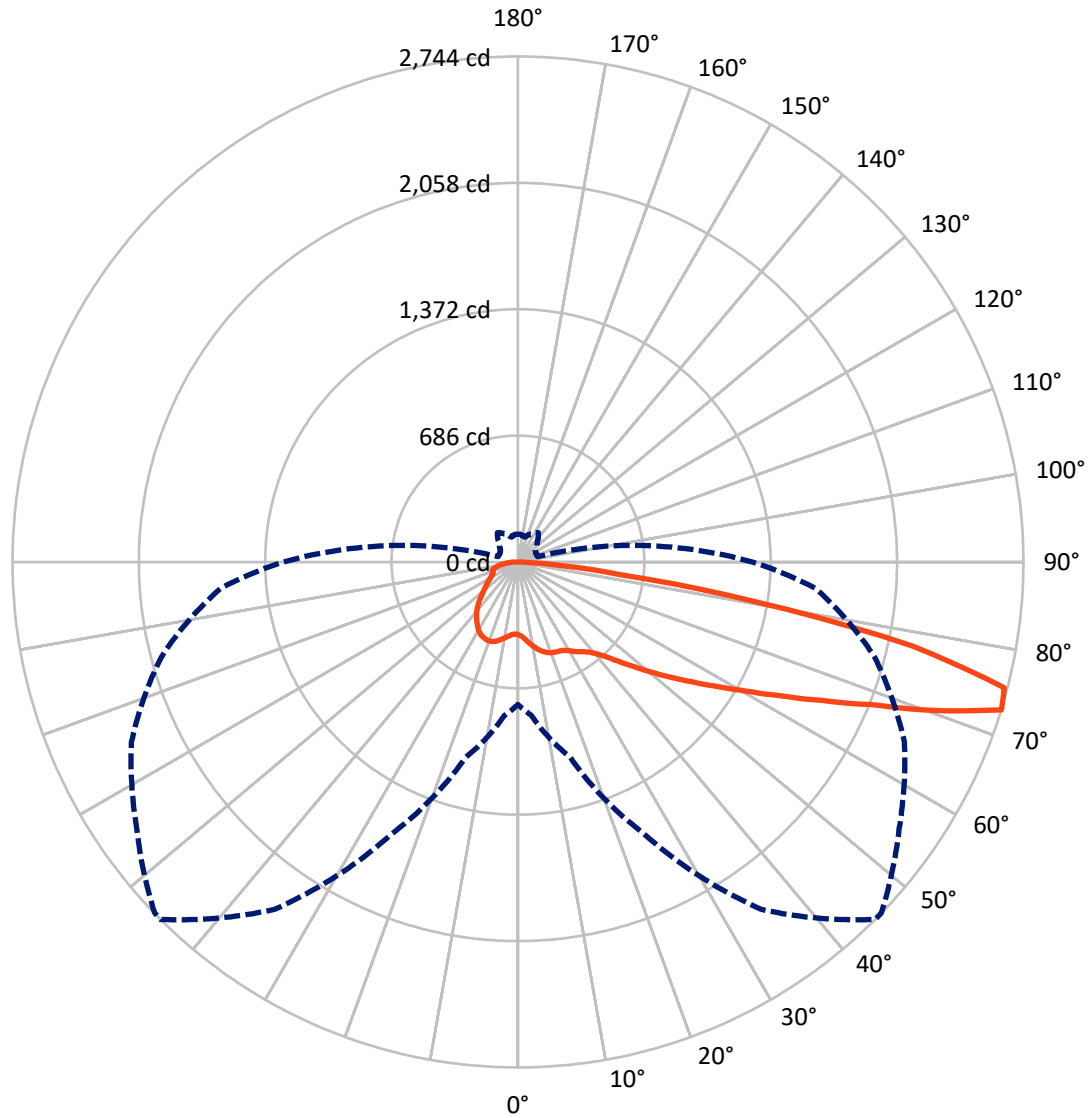
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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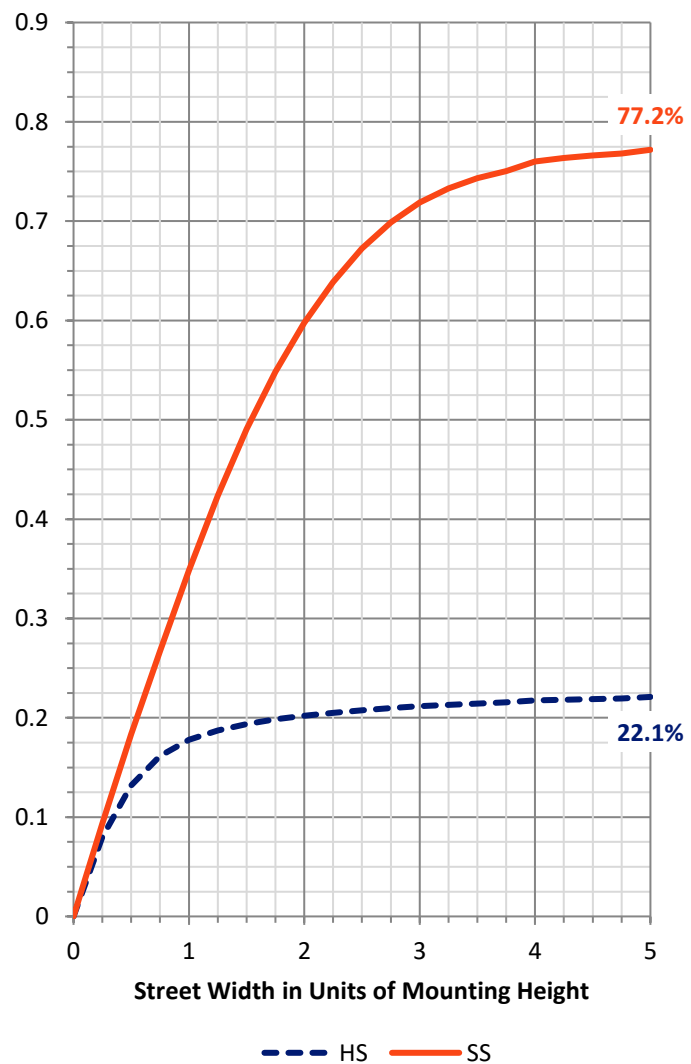
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	884.1	0.0	884.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3026.9	0.0	3026.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	3911.0	0.0	3911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	1.0
10°-20°	133.9	3.4
20°-30°	232.9	6.0
30°-40°	333.9	8.5
40°-50°	470.1	12.0
50°-60°	720.1	18.4
60°-70°	1043.2	26.7
70°-80°	833.0	21.3
80°-90°	103.7	2.7
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°	3911.0	100.0
0°-180°	3911.0	100.0

Coefficient of Utilization



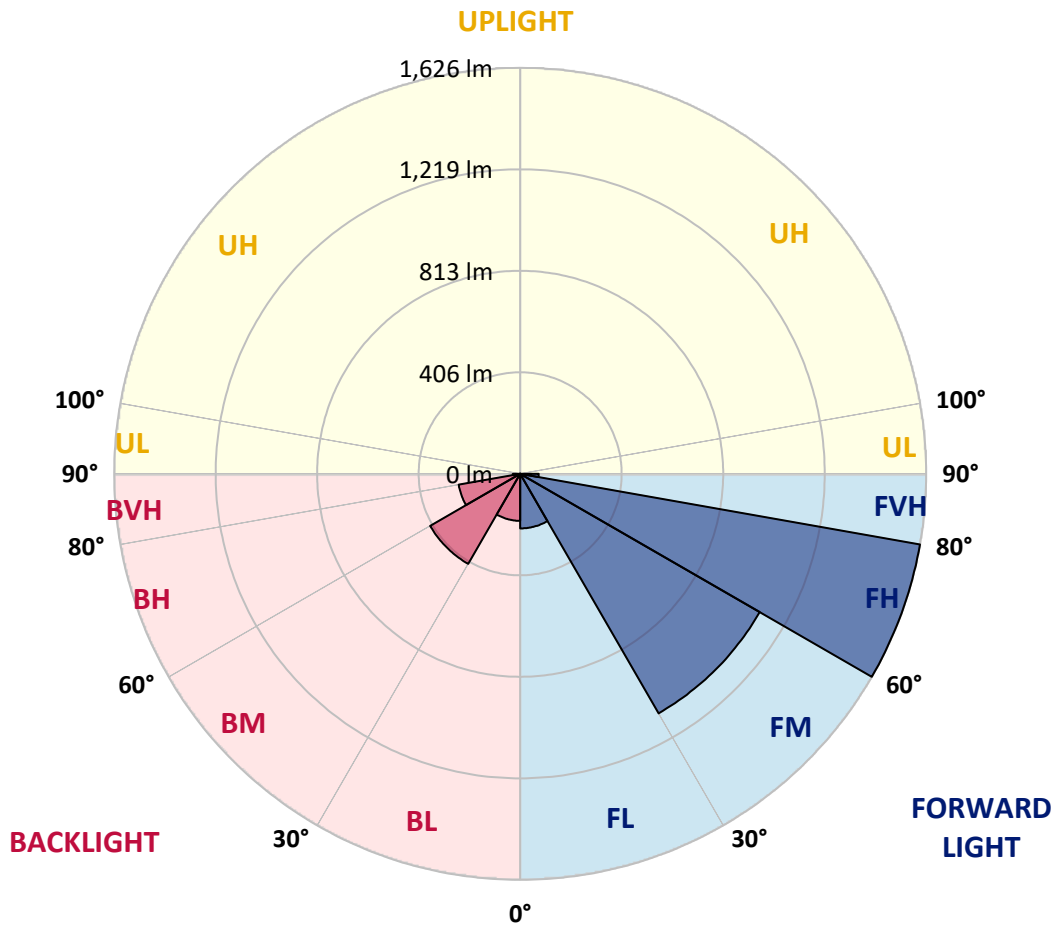
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	218.7	5.6			
FM (30°-60°)	1107.8	28.3			
FH (60°-80°)	1625.9	41.6			G1/1800
FVH (80°-90°)	74.4	1.9			G1/100
BL (0°-30°)	188.2	4.8	B1/500		
BM (30°-60°)	416.3	10.6	B1/1000		
BH (60°-80°)	250.3	6.4	B1/500		G1/500
BVH (80°-90°)	29.3	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5
2.5°	410.0	412.7	410.2	407.9	406.9	404.2	404.0	402.4	401.3	398.5
5°	438.6	442.1	438.0	433.5	429.4	422.8	421.9	417.2	411.9	405.7
7.5°	471.0	474.1	469.3	462.5	455.3	444.4	444.2	435.5	427.1	416.6
10°	499.2	503.3	496.9	487.7	478.6	466.2	464.8	454.9	444.2	430.6
12.5°	524.1	527.0	520.8	509.5	499.0	486.6	484.8	473.9	461.9	446.5
15°	543.9	547.6	539.4	527.2	516.1	503.9	502.3	492.4	480.5	464.2
17.5°	556.9	560.0	551.5	537.9	527.2	517.1	515.9	507.7	497.1	480.7
20°	561.8	565.1	556.3	542.5	532.6	524.8	524.1	518.2	510.9	495.9
22.5°	566.8	569.9	558.3	543.9	535.3	530.3	530.1	526.2	523.3	510.9
25°	586.8	587.6	572.1	551.3	539.0	534.6	534.4	534.2	535.5	525.8
27.5°	604.1	603.9	590.7	571.1	551.9	542.9	542.7	544.7	548.7	540.6
30°	629.4	627.1	611.5	591.1	573.6	559.6	558.3	556.5	559.6	553.2
32.5°	683.2	676.0	650.6	614.4	591.5	580.8	579.1	567.6	568.8	564.9
35°	760.2	750.8	717.0	658.5	613.8	598.5	597.7	583.1	580.6	577.1
37.5°	851.9	840.2	800.8	722.3	652.1	619.1	617.9	604.7	594.6	590.9
40°	944.0	929.2	896.6	800.2	708.5	653.5	649.6	629.6	618.1	611.9
42.5°	1033.4	1021.1	993.3	887.6	778.2	703.8	695.1	660.9	652.3	646.5
45°	1112.6	1101.4	1081.0	980.9	859.8	772.2	763.7	707.9	705.2	705.2
47.5°	1176.8	1174.4	1152.7	1076.1	956.0	850.1	835.4	773.2	780.4	791.6
50°	1248.1	1241.3	1218.2	1169.8	1069.1	939.3	927.3	853.4	880.4	910.9
52.5°	1313.6	1317.3	1291.6	1267.5	1196.8	1038.8	1017.8	947.9	1006.2	1056.7
55°	1381.0	1381.2	1374.0	1370.7	1330.7	1148.8	1125.7	1061.7	1154.4	1217.0
57.5°	1444.3	1444.7	1455.4	1484.4	1486.1	1275.7	1249.6	1201.3	1319.0	1382.9
60°	1500.7	1503.6	1532.8	1600.8	1622.7	1421.2	1396.5	1366.4	1489.2	1553.5
62.5°	1519.7	1530.2	1595.3	1691.9	1757.6	1599.6	1575.3	1557.4	1668.0	1727.8
65°	1487.5	1511.6	1637.5	1767.1	1896.5	1811.6	1787.5	1767.9	1853.8	1910.1
67.5°	1408.6	1439.7	1635.0	1846.0	2065.0	2066.7	2044.2	1998.3	2053.1	2074.7
70°	1200.7	1247.3	1491.0	1875.5	2258.5	2415.5	2393.8	2275.6	2251.9	2147.2
72.5°	773.6	836.3	1097.9	1633.0	2301.5	2743.7	2742.4	2525.9	2314.7	2006.3
75°	282.3	320.6	510.1	1025.0	1931.9	2727.0	2735.0	2483.1	2113.0	1549.7
77.5°	102.8	112.5	166.5	393.9	1188.2	2188.0	2204.7	1985.1	1504.0	777.8
80°	54.0	59.3	85.3	152.9	509.1	1299.4	1325.6	1179.7	706.9	234.3
82.5°	29.9	32.3	47.8	83.0	229.3	555.7	571.3	466.0	248.7	99.3
85°	16.1	17.1	22.5	45.3	112.1	192.6	197.0	139.3	99.1	58.3
87.5°	4.7	5.8	7.4	14.4	43.9	43.3	44.3	27.6	39.1	29.5
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°
394.5	0°	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5
397.6	2.5°	396.4	395.8	393.5	392.5	391.2	391.0	392.1	392.3	392.5	392.7
402.2	5°	400.1	398.0	396.0	394.7	395.2	395.4	397.4	398.9	399.9	400.7
410.6	7.5°	407.3	405.7	402.2	402.0	402.6	404.4	407.1	410.4	412.3	413.7
421.5	10°	418.0	414.9	410.8	411.4	412.7	415.4	420.9	423.6	426.7	429.4
434.9	12.5°	429.0	426.3	421.5	421.9	424.0	428.7	434.1	437.4	439.5	441.5
449.3	15°	443.2	438.4	433.3	433.3	437.0	442.1	444.6	447.3	448.5	450.8
464.8	17.5°	457.8	451.6	444.8	444.4	448.9	451.4	452.8	453.3	453.7	456.1
479.8	20°	472.4	465.6	455.9	455.1	456.1	455.7	455.5	455.1	455.7	458.8
495.3	22.5°	486.8	479.0	465.6	461.9	459.0	455.1	454.9	454.7	455.1	458.2
512.0	25°	503.7	494.3	476.3	465.2	455.5	450.2	450.8	451.0	451.4	453.9
529.3	27.5°	522.1	511.6	486.2	464.2	446.7	443.0	441.9	442.5	444.0	447.9
546.6	30°	540.4	528.0	495.3	460.1	435.5	430.4	427.1	428.5	433.1	437.0
561.6	32.5°	557.1	544.7	502.5	451.0	421.3	413.3	409.0	410.8	415.4	416.8
578.3	35°	576.7	562.7	505.6	436.6	405.9	393.5	387.7	385.1	387.3	385.9
597.9	37.5°	598.5	583.9	505.2	417.6	387.7	373.5	365.5	355.4	350.7	345.7
626.7	40°	630.9	609.8	500.2	394.7	365.3	352.3	337.9	320.8	310.1	300.4
673.3	42.5°	674.9	645.9	491.2	369.6	339.9	327.8	308.2	288.2	271.3	255.3
744.0	45°	740.7	693.1	479.8	342.8	312.5	300.6	279.4	256.9	237.8	217.2
844.3	47.5°	835.4	756.5	469.1	312.3	283.7	272.8	253.6	232.8	210.1	190.2
989.3	50°	965.7	847.6	459.2	282.7	255.3	247.0	231.8	210.6	187.7	171.6
1159.3	52.5°	1131.3	971.4	455.1	254.0	228.7	225.6	213.4	193.7	172.0	158.4
1357.5	55°	1321.5	1119.6	455.1	226.6	205.4	206.4	198.0	179.7	160.9	148.8
1561.9	57.5°	1515.5	1269.5	446.9	201.3	185.6	190.0	184.6	168.5	151.6	139.1
1776.8	60°	1694.4	1395.2	413.5	178.2	168.1	174.9	171.4	157.6	137.0	126.5
1956.4	62.5°	1831.8	1466.1	349.2	159.9	153.7	161.5	159.7	143.2	134.3	130.0
2104.0	65°	1900.6	1454.6	267.0	143.6	141.5	153.7	149.8	149.2	142.2	137.2
2152.0	67.5°	1858.4	1355.3	193.7	131.7	134.5	146.5	161.5	164.0	151.0	141.3
2016.8	70°	1673.2	1175.6	144.2	120.3	125.7	146.7	184.2	171.6	148.1	136.8
1617.5	72.5°	1272.8	876.6	111.9	108.4	114.1	147.7	194.3	168.1	139.9	151.2
1007.7	75°	727.9	481.3	89.8	93.7	99.7	138.0	189.1	159.1	133.5	138.9
399.3	77.5°	277.5	185.0	74.2	79.3	80.1	120.5	180.9	158.4	127.1	124.0
119.7	80°	96.2	72.3	61.4	63.0	62.0	107.1	173.5	137.8	104.0	93.1
49.4	82.5°	39.4	36.1	48.6	46.6	44.1	83.2	140.1	112.7	85.1	75.2
23.9	85°	17.1	22.9	32.1	28.2	25.5	57.7	112.3	95.4	71.9	62.0
7.8	87.5°	3.5	8.7	13.6	12.8	13.2	38.5	79.7	67.8	50.9	38.1
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>
394.5
393.5
401.1
414.1
428.7
442.3
451.6
457.0
460.1
460.3
457.2
451.8
441.3
421.9
390.4
348.8
301.0
253.8
214.7
187.9
170.6
157.4
147.5
137.0
124.9
128.6
135.6
139.7
134.9
150.0
138.9
113.1
90.0
74.4
61.8
29.9
0.0

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