

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: P945625

Luminaire Tested: **GALN-SB1C-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7691 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

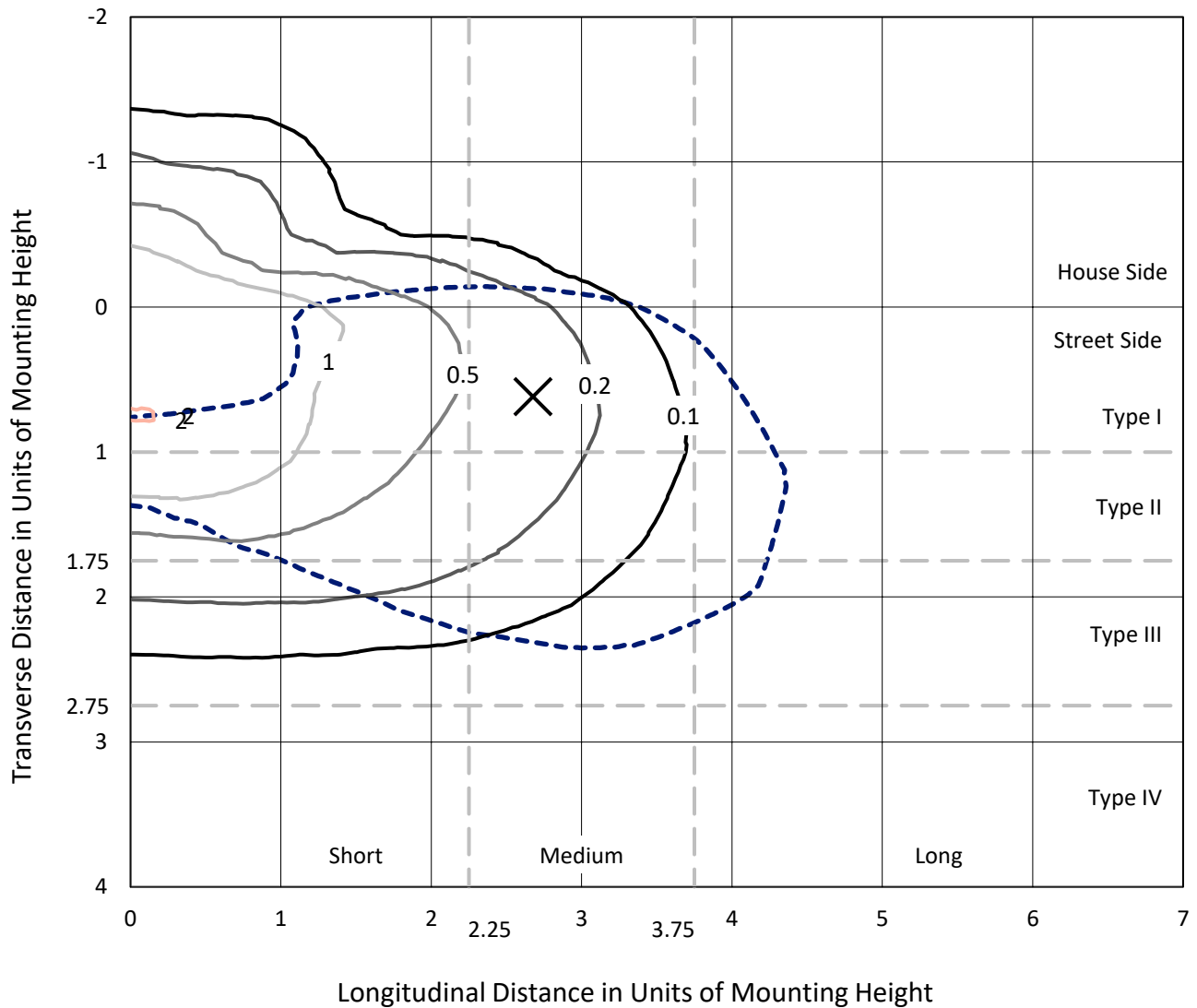
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

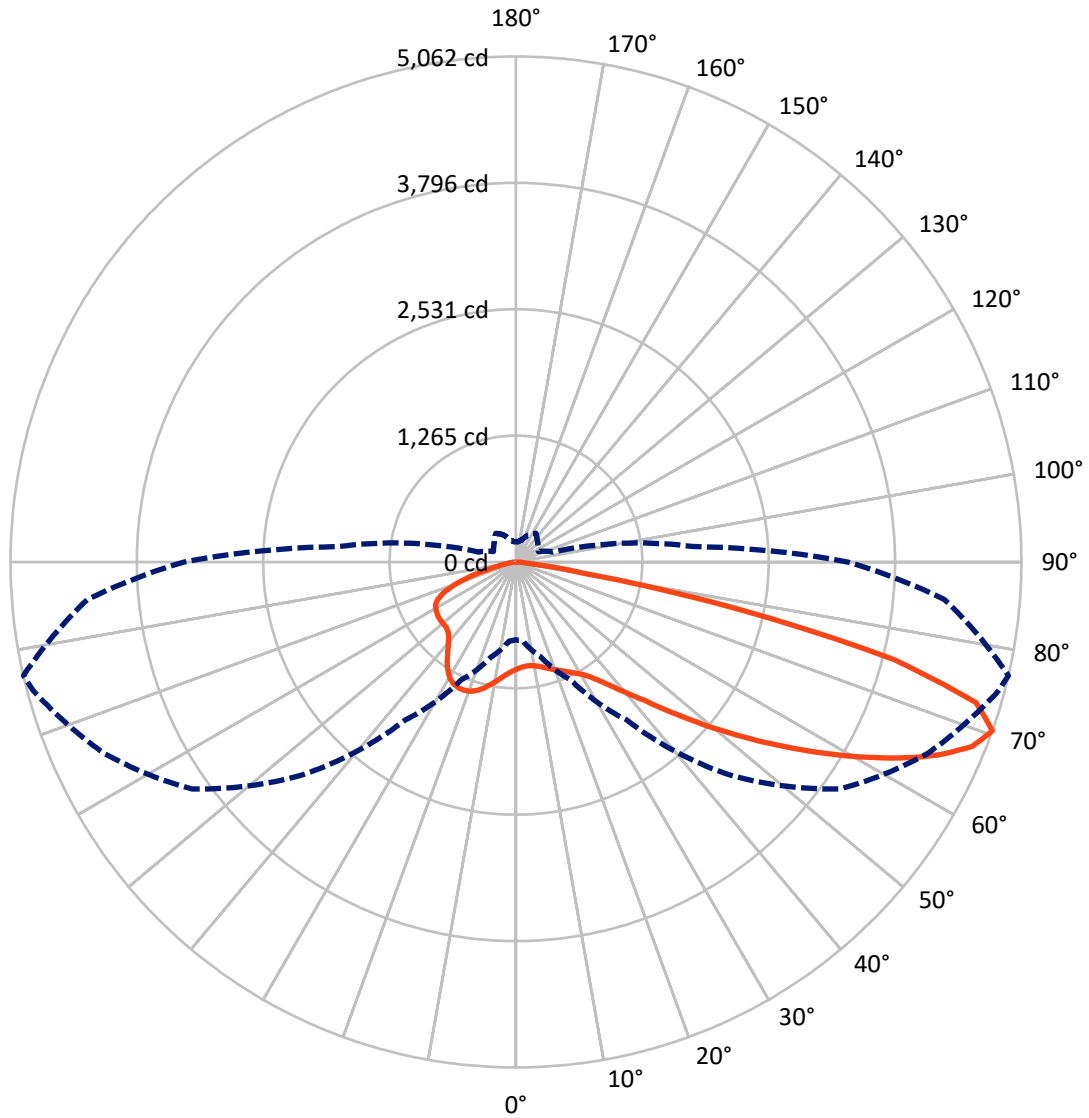
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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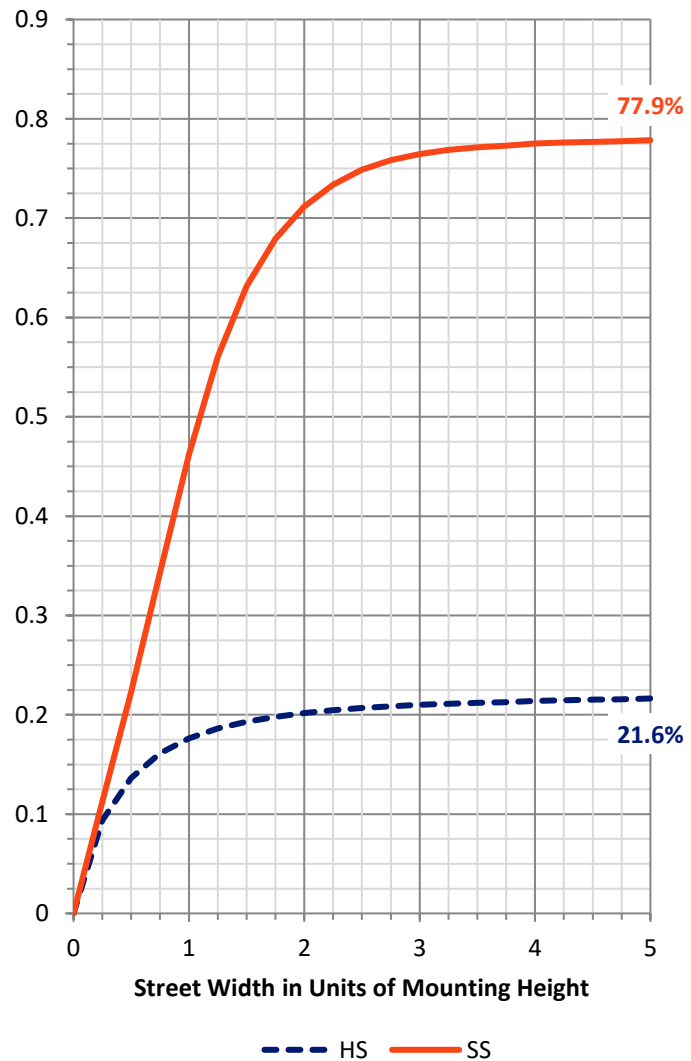
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1684.2	0.0	1684.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6006.8	0.0	6006.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	7691.0	0.0	7691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	1.3
10°-20°	295.3	3.8
20°-30°	505.1	6.6
30°-40°	812.2	10.6
40°-50°	1268.1	16.5
50°-60°	1693.8	22.0
60°-70°	1805.4	23.5
70°-80°	1111.4	14.5
80°-90°	97.4	1.3
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°	7691.0	100.0
0°-180°	7691.0	100.0

Coefficient of Utilization



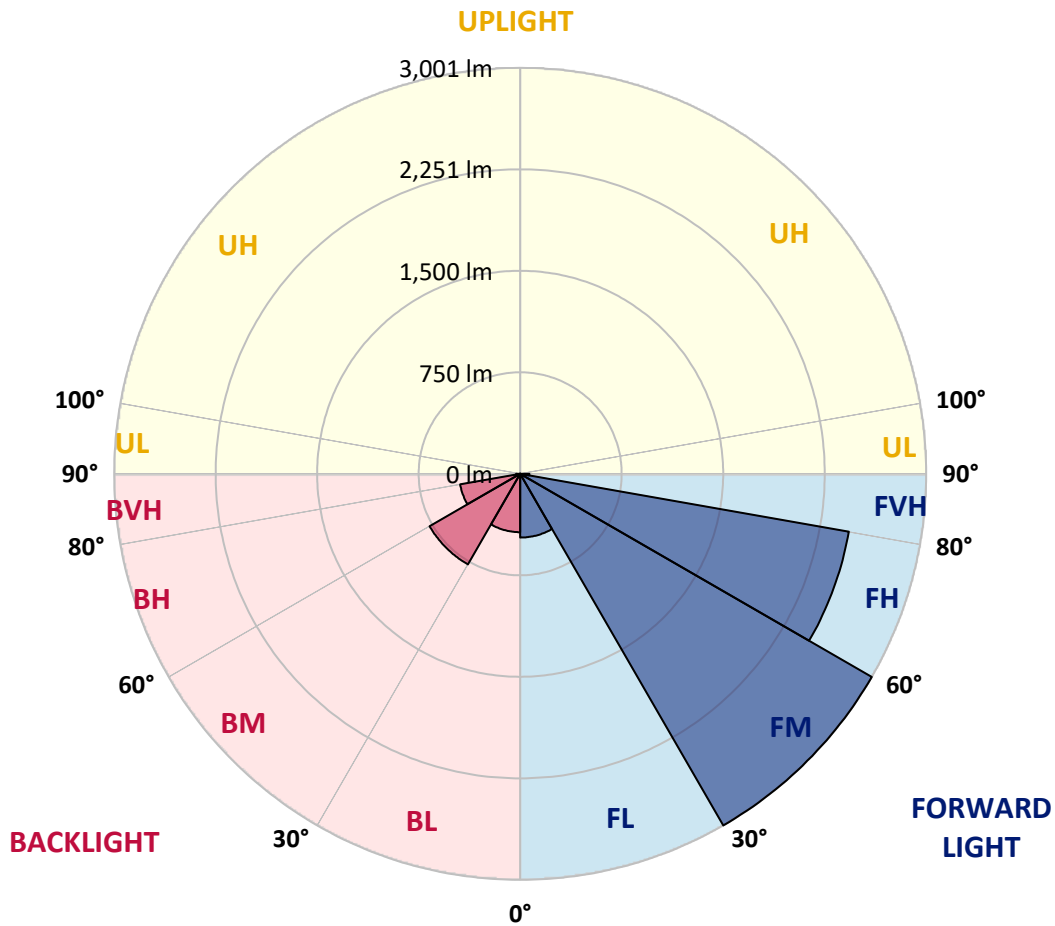
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.2	6.1			
FM (30°-60°)	3000.9	39.0			
FH (60°-80°)	2466.6	32.1			G2/5000
FVH (80°-90°)	68.1	0.9			G1/100
BL (0°-30°)	431.5	5.6	B1/500		
BM (30°-60°)	773.3	10.1	B1/1000		
BH (60°-80°)	450.1	5.9	B1/500		G1/500
BVH (80°-90°)	29.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0
2.5°	989.1	988.7	993.8	995.4	1004.8	1011.5	1024.1	1037.5	1054.8	1056.8
5°	932.0	932.0	937.9	944.2	956.4	969.8	989.1	1012.3	1042.2	1047.0
7.5°	883.5	886.7	891.8	904.0	918.2	937.5	967.0	1000.1	1039.5	1047.0
10°	844.5	848.1	854.4	864.2	885.5	912.3	950.9	993.4	1046.2	1058.0
12.5°	832.3	835.8	839.4	846.9	866.6	898.1	944.2	996.5	1062.3	1074.1
15°	860.7	865.0	862.2	860.3	870.5	899.3	947.3	1008.0	1082.4	1099.4
17.5°	926.0	927.6	921.3	902.8	901.2	916.6	962.3	1023.7	1107.6	1126.1
20°	1031.6	1028.8	1015.9	979.2	958.3	955.2	987.9	1047.4	1133.6	1153.3
22.5°	1175.0	1171.8	1145.8	1087.9	1041.5	1010.7	1024.9	1078.1	1162.8	1184.8
25°	1353.8	1349.5	1311.3	1232.5	1160.4	1084.4	1075.3	1118.7	1198.6	1219.1
27.5°	1562.6	1559.0	1517.7	1413.7	1309.7	1185.2	1138.0	1166.3	1236.0	1259.3
30°	1787.1	1797.3	1724.1	1612.2	1480.6	1316.8	1222.3	1225.0	1284.5	1305.4
32.5°	2051.0	2068.7	1980.5	1838.7	1659.1	1459.8	1328.6	1306.9	1355.0	1372.3
35°	2312.5	2332.6	2259.4	2102.6	1895.8	1628.4	1439.7	1401.1	1448.7	1467.6
37.5°	2538.6	2565.4	2527.6	2391.3	2149.1	1831.6	1584.6	1511.8	1564.1	1587.8
40°	2717.1	2758.0	2755.3	2670.2	2447.7	2078.2	1768.6	1648.4	1707.5	1733.1
42.5°	2862.0	2897.5	2928.2	2923.9	2759.2	2358.2	1984.8	1826.1	1871.0	1900.5
45°	2962.1	2999.9	3066.1	3137.4	3059.0	2658.0	2232.6	2036.8	2077.8	2122.3
47.5°	3051.5	3094.4	3180.3	3293.3	3313.4	2958.9	2504.0	2282.2	2319.6	2365.7
50°	3059.4	3096.4	3229.5	3389.8	3494.2	3248.0	2795.5	2557.5	2592.6	2641.8
52.5°	2869.1	2927.4	3159.8	3387.1	3577.3	3489.9	3085.0	2843.9	2883.3	2942.4
55°	2227.1	2312.5	2955.4	3281.5	3547.8	3646.3	3360.3	3148.4	3198.8	3260.6
57.5°	1918.3	1955.7	2346.0	3089.3	3413.1	3686.8	3592.7	3456.0	3537.2	3604.9
60°	1724.1	1755.2	1986.0	2790.3	3235.8	3622.6	3772.3	3742.8	3883.0	3963.7
62.5°	1516.1	1545.6	1755.6	2329.9	3008.9	3515.9	3885.8	4007.5	4237.5	4325.7
65°	1309.7	1334.9	1536.2	1957.6	2720.6	3409.1	3944.4	4236.3	4565.6	4657.0
67.5°	1079.7	1100.5	1290.8	1651.6	2370.1	3263.0	3973.6	4416.3	4851.2	4929.6
70°	779.1	795.3	991.8	1306.1	1930.1	3011.7	3961.8	4544.0	4999.3	5061.9
72.5°	368.3	382.9	613.7	848.1	1363.3	2522.5	3722.7	4442.7	4848.8	4817.7
75°	196.6	209.2	352.5	465.2	720.0	1729.2	3046.4	3827.1	4071.7	3920.4
77.5°	133.1	143.0	218.2	279.3	328.9	820.9	1958.0	2649.7	2549.3	2299.5
80°	105.6	115.8	178.8	189.1	159.1	296.6	809.1	1226.6	881.1	704.7
82.5°	81.1	92.6	150.5	137.1	86.7	121.7	235.5	388.0	225.7	171.7
85°	49.6	61.8	118.2	87.4	48.8	55.5	80.0	107.9	68.9	57.5
87.5°	25.2	35.5	59.9	31.9	22.1	13.0	21.3	21.3	18.1	15.8
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°
1073.0	0°	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0
1067.5	2.5°	1076.9	1084.8	1098.2	1110.8	1120.6	1130.1	1139.5	1144.7	1146.2	1152.5
1073.4	5°	1089.5	1104.1	1130.1	1154.5	1169.9	1179.3	1186.0	1190.0	1190.7	1192.7
1089.5	7.5°	1112.7	1136.0	1172.2	1196.6	1208.1	1207.3	1204.5	1194.7	1190.7	1187.2
1113.1	10°	1145.4	1176.2	1220.7	1237.6	1230.5	1211.6	1187.2	1158.4	1145.0	1132.0
1145.4	12.5°	1186.0	1225.0	1268.7	1267.9	1232.9	1184.4	1127.7	1083.6	1055.6	1035.5
1185.2	15°	1235.2	1280.2	1313.6	1286.8	1210.0	1123.0	1039.9	982.4	957.2	935.1
1225.4	17.5°	1286.1	1334.1	1349.5	1280.9	1152.5	1032.0	937.9	892.6	867.7	855.9
1268.7	20°	1335.7	1383.4	1370.7	1247.1	1065.1	928.8	844.9	820.1	815.0	817.7
1310.9	22.5°	1388.1	1430.6	1375.1	1181.7	953.6	823.2	777.2	777.9	789.4	797.6
1355.0	25°	1441.6	1470.4	1363.7	1087.1	833.9	745.6	734.2	746.8	769.3	785.4
1404.6	27.5°	1493.2	1505.9	1338.8	970.2	731.1	690.1	692.1	718.1	751.9	774.4
1464.9	30°	1551.5	1537.4	1291.2	838.6	659.8	642.4	659.0	689.3	723.2	743.3
1540.9	32.5°	1617.3	1564.5	1215.6	716.9	609.4	604.2	631.4	651.1	666.1	672.0
1641.7	35°	1699.3	1602.8	1118.7	631.4	564.1	576.3	602.3	592.4	586.5	583.4
1777.2	37.5°	1805.6	1654.4	1005.2	575.9	527.4	556.2	566.8	536.1	512.8	501.4
1941.5	40°	1933.6	1730.0	896.1	532.9	504.2	538.8	520.3	483.3	453.8	437.6
2126.2	42.5°	2075.8	1809.2	804.3	500.6	491.2	524.7	486.1	441.9	394.3	389.2
2346.4	45°	2225.1	1890.7	741.7	475.8	484.9	512.5	466.4	395.1	361.2	382.1
2567.4	47.5°	2374.4	1965.5	703.9	457.3	481.7	498.7	449.0	369.1	345.1	375.4
2804.1	50°	2540.6	2032.5	686.9	443.9	478.2	493.2	423.0	362.4	328.1	348.2
3049.1	52.5°	2705.7	2084.5	674.3	430.5	473.1	488.8	410.4	354.5	307.6	308.8
3295.7	55°	2870.3	2118.4	660.6	412.8	461.6	479.4	409.3	345.8	292.3	286.8
3556.5	57.5°	3046.0	2137.7	643.6	393.1	441.9	455.3	408.1	339.1	287.5	278.5
3823.1	60°	3224.8	2166.0	621.6	369.1	415.6	426.6	405.3	336.8	284.8	269.4
4074.4	62.5°	3385.1	2175.9	595.2	346.2	381.7	398.2	399.4	334.8	277.3	250.9
4283.2	65°	3490.3	2133.3	549.1	320.2	345.1	369.1	388.0	328.1	263.9	237.5
4386.4	67.5°	3486.0	2012.0	477.0	286.8	309.6	336.8	371.4	316.7	247.8	221.0
4308.4	70°	3323.7	1772.5	385.6	247.8	270.6	302.1	350.2	299.8	228.5	202.9
3831.0	72.5°	2850.6	1387.3	280.1	202.1	225.3	266.3	322.6	279.3	208.8	186.7
2831.3	75°	2036.4	878.0	189.9	155.2	175.3	225.7	288.3	255.2	190.6	187.5
1418.0	77.5°	1040.3	419.5	125.7	113.4	122.1	178.0	242.2	228.1	193.4	154.8
403.3	80°	338.4	154.8	79.2	77.2	81.1	118.6	187.5	187.1	146.5	105.2
97.7	82.5°	107.9	66.6	51.6	49.6	47.7	74.4	130.8	148.1	98.9	66.6
35.1	85°	42.9	39.8	30.3	28.0	20.1	35.1	68.5	98.5	73.7	48.1
9.1	87.5°	15.8	15.8	8.3	5.9	4.3	11.8	18.5	29.5	42.1	24.8
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>
1073.0
1156.1
1195.9
1188.0
1128.1
1030.8
932.7
859.5
816.5
799.6
789.8
779.9
748.0
675.1
586.5
504.2
438.8
394.3
393.1
389.6
363.2
317.1
290.7
279.7
270.6
250.9
237.5
222.2
205.2
185.5
176.9
137.9
93.0
66.2
49.2
24.4
0.0

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