

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: P938917

Luminaire Tested: **GALN-SB1B-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-735-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5637 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

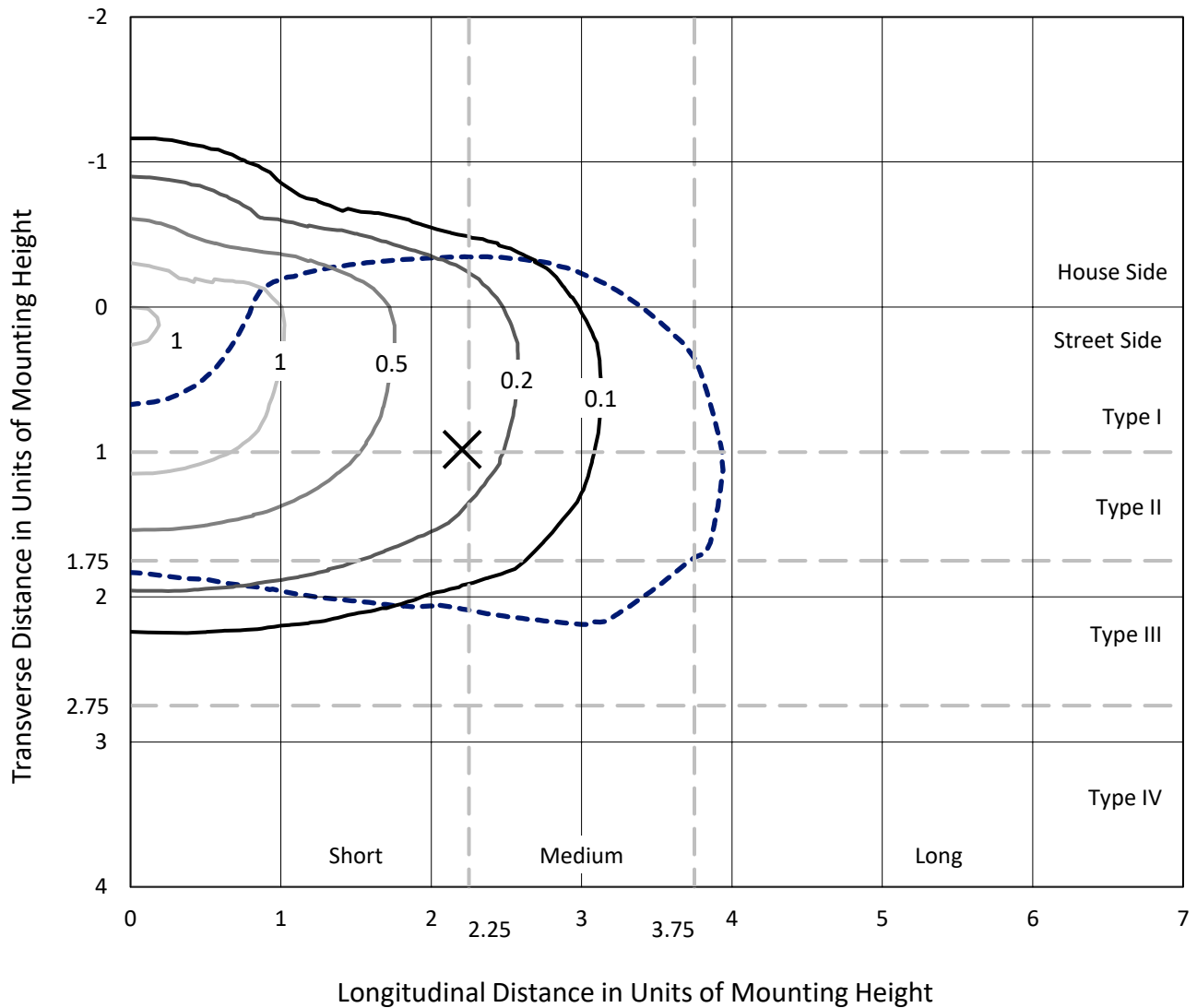
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P938917
 CATALOG NUMBER: GALN-SB1B-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

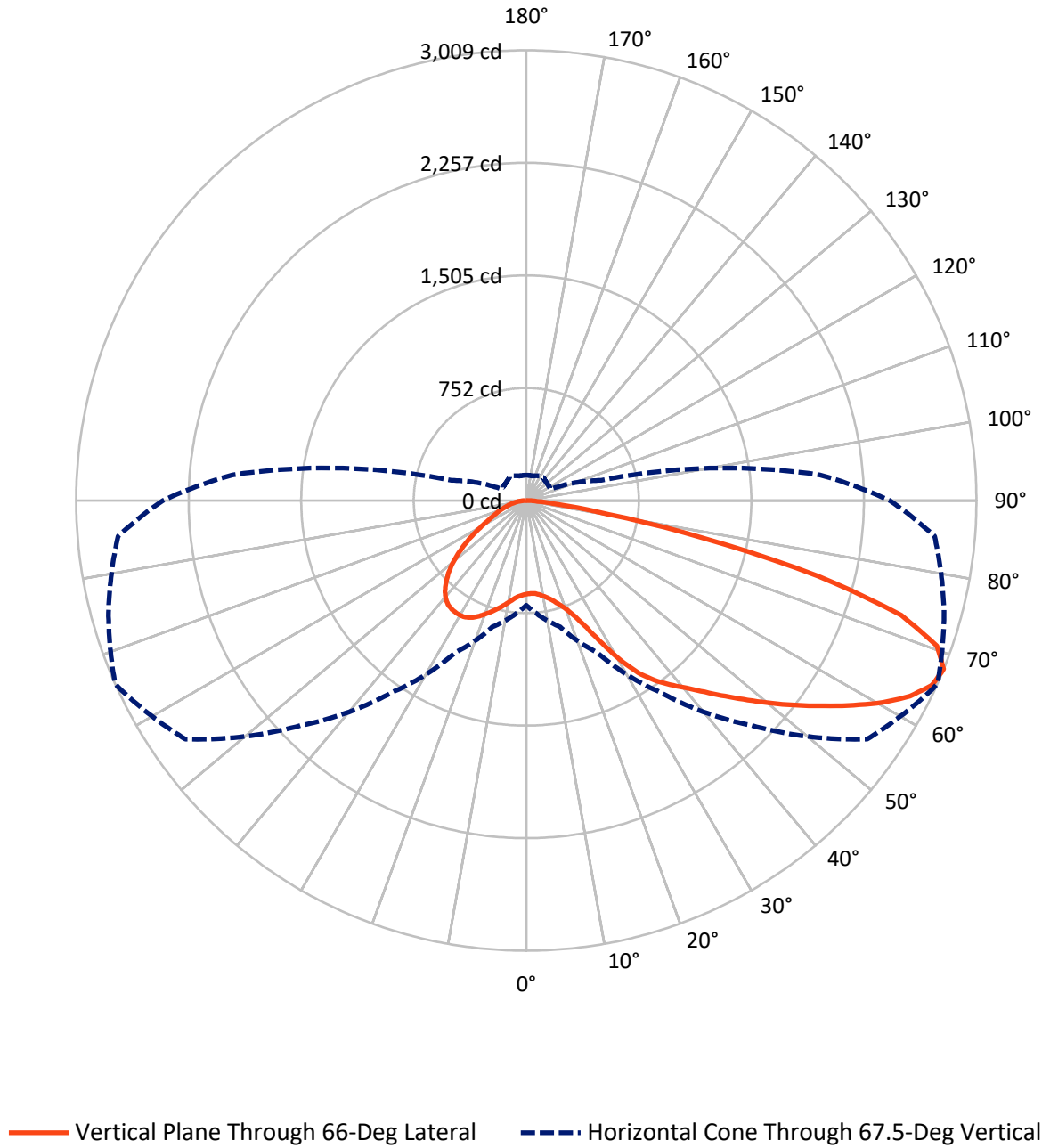
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

REPORT NUMBER: P938917
CATALOG NUMBER: GALN-SB1B-735-U-T3

Luminous Intensity Polar Plot



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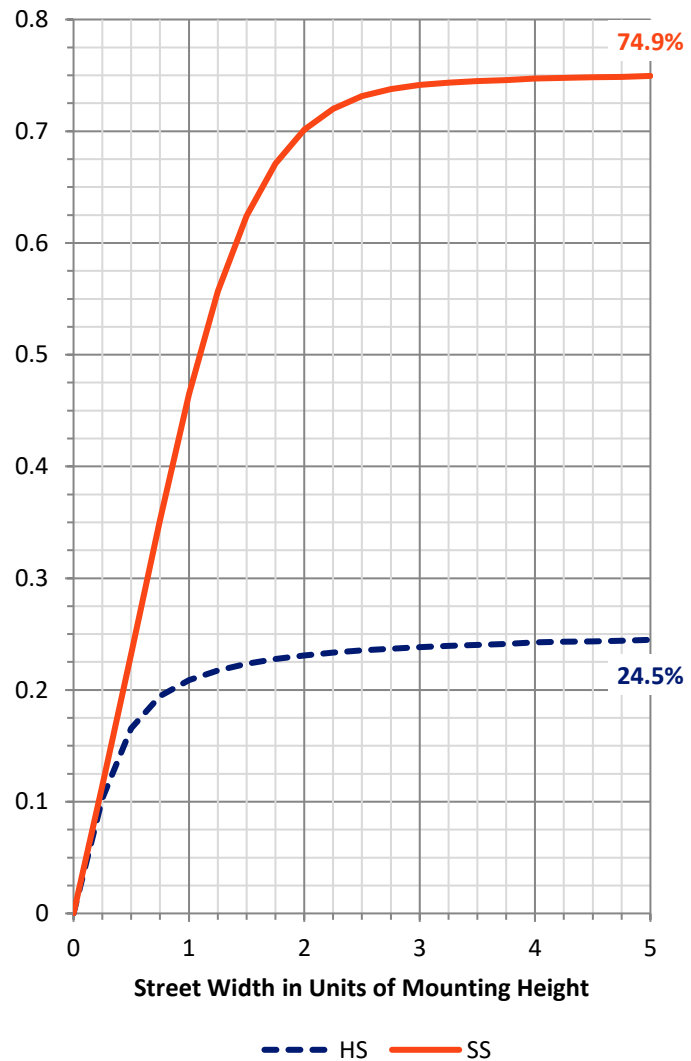
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1401.6	0.0	1401.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	4235.4	0.0	4235.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	5637.0	0.0	5637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	1.1
10°-20°	204.8	3.6
20°-30°	394.7	7.0
30°-40°	692.1	12.3
40°-50°	1029.0	18.3
50°-60°	1304.3	23.1
60°-70°	1276.2	22.6
70°-80°	608.8	10.8
80°-90°	65.1	1.2
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°	5637.0	100.0
0°-180°	5637.0	100.0

Coefficient of Utilization



REPORT NUMBER: P938917

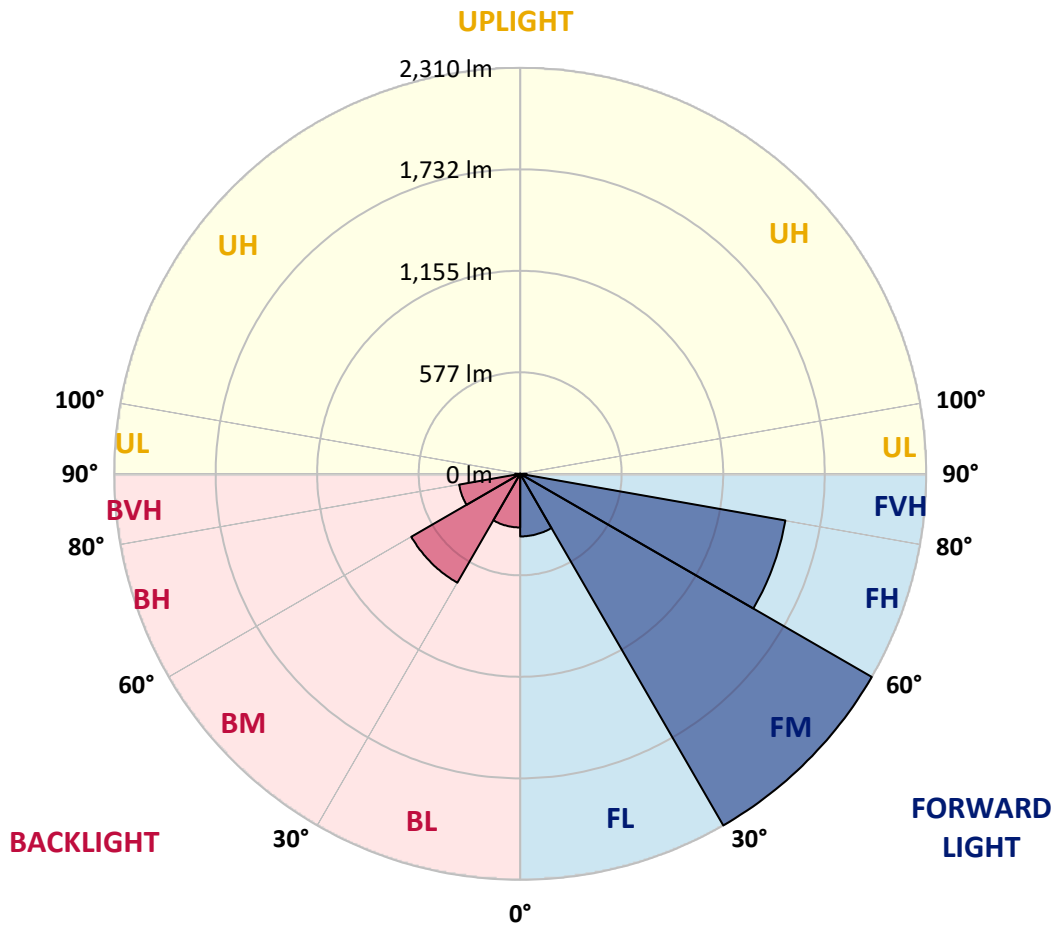
CATALOG NUMBER: GALN-SB1B-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.2	6.3			
FM (30°-60°)	2310.0	41.0			
FH (60°-80°)	1532.3	27.2			G1/1800
FVH (80°-90°)	36.9	0.7			G1/100
BL (0°-30°)	305.3	5.4	B1/500		
BM (30°-60°)	715.4	12.7	B1/1000		
BH (60°-80°)	352.7	6.3	B1/500		G1/500
BVH (80°-90°)	28.2	0.5			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 III Short



REPORT NUMBER: P938917

CATALOG NUMBER: GALN-SB1B-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2
2.5°	618.7	622.3	621.4	619.9	619.6	620.2	621.1	622.0	621.7	623.1
5°	616.9	620.5	620.2	620.2	621.4	623.7	625.2	626.7	625.2	627.0
7.5°	618.1	620.8	622.0	623.1	626.1	630.5	634.1	637.4	635.6	637.7
10°	633.2	635.3	636.5	636.5	638.5	643.6	647.1	653.1	651.6	654.8
12.5°	660.8	662.8	662.8	661.6	663.1	666.4	667.6	674.1	671.4	676.8
15°	694.5	698.7	695.4	693.3	693.9	697.2	696.9	701.9	699.3	703.7
17.5°	731.8	737.2	731.8	731.5	730.4	733.9	734.2	738.7	733.9	737.2
20°	776.0	783.4	778.9	780.4	777.7	779.2	780.7	787.2	779.8	782.2
22.5°	838.2	847.1	842.3	847.9	846.2	845.0	844.7	856.2	844.7	845.6
25°	928.8	939.5	931.2	938.9	938.9	942.7	947.2	962.0	942.7	937.1
27.5°	1062.7	1073.3	1057.0	1061.8	1060.3	1069.8	1065.0	1101.8	1081.0	1071.8
30°	1223.8	1242.7	1211.9	1210.7	1209.3	1224.4	1231.2	1255.5	1234.4	1225.3
32.5°	1397.9	1417.8	1381.0	1370.4	1364.8	1373.9	1368.3	1387.9	1373.3	1359.1
35°	1582.1	1601.7	1566.7	1546.0	1523.5	1504.3	1484.1	1489.1	1475.5	1453.9
37.5°	1756.3	1792.1	1755.1	1732.9	1691.4	1653.8	1597.5	1574.2	1561.4	1541.6
40°	1933.7	1954.1	1926.0	1907.0	1862.0	1803.1	1713.1	1663.6	1646.4	1627.2
42.5°	2064.3	2083.9	2068.8	2055.7	2020.5	1952.1	1835.7	1773.8	1748.9	1727.3
45°	2168.0	2182.5	2173.0	2177.7	2162.6	2096.3	1962.7	1891.9	1866.2	1839.8
47.5°	2209.7	2225.1	2240.2	2268.4	2294.1	2245.3	2099.3	2019.9	1992.6	1965.7
50°	2205.0	2220.7	2264.5	2324.4	2404.3	2388.0	2243.2	2156.1	2131.0	2100.2
52.5°	2167.1	2184.9	2241.1	2340.6	2468.0	2494.9	2389.8	2296.8	2273.1	2236.4
55°	2067.6	2078.2	2162.6	2303.6	2483.1	2569.6	2533.5	2446.7	2423.0	2371.7
57.5°	1883.1	1898.5	2021.4	2203.8	2445.2	2620.2	2659.6	2604.2	2581.4	2507.7
60°	1642.3	1666.9	1807.5	2036.2	2348.6	2619.9	2774.2	2759.1	2740.2	2641.6
62.5°	1369.8	1398.2	1533.6	1799.2	2179.8	2545.6	2845.9	2888.9	2879.1	2765.1
65°	1052.0	1071.5	1206.3	1492.7	1917.1	2386.0	2854.2	2977.4	2979.2	2858.9
67.5°	700.4	756.7	873.7	1120.1	1565.3	2125.0	2781.3	2991.9	3009.1	2891.2
70°	341.8	415.8	530.4	728.0	1120.1	1724.9	2590.9	2872.9	2911.1	2797.0
72.5°	141.9	165.9	228.3	359.3	643.0	1164.0	2208.3	2550.0	2620.8	2478.4
75°	95.7	103.7	130.6	184.2	292.9	574.0	1592.5	1901.4	2015.4	1871.8
77.5°	73.7	78.8	95.1	128.8	174.1	217.1	852.4	1145.9	1204.8	1115.4
80°	58.0	61.9	71.1	93.9	123.5	116.1	290.5	519.2	553.2	464.1
82.5°	50.3	51.8	50.9	63.7	82.0	67.8	95.4	191.6	211.5	153.4
85°	36.4	40.6	42.4	39.4	43.5	34.4	39.1	67.8	74.6	66.6
87.5°	14.8	21.9	27.0	25.5	16.0	9.8	12.1	19.8	22.8	24.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938917
 CATALOG NUMBER: GALN-SB1B-735-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
625.2	0°	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2
625.5	2.5°	625.8	627.9	629.4	631.1	632.3	634.1	637.7	639.7	640.0	641.5
630.3	5°	631.4	634.4	637.7	642.4	647.7	652.2	659.0	663.7	665.5	667.0
641.8	7.5°	643.6	647.7	653.7	661.9	669.6	675.6	683.9	689.5	695.1	697.2
660.2	10°	661.6	667.6	676.2	687.4	695.7	703.4	712.0	716.7	722.4	724.7
682.1	12.5°	684.2	690.4	701.6	717.3	725.0	730.4	733.3	732.1	733.3	735.4
708.4	15°	709.9	716.7	729.5	746.4	751.7	746.9	740.4	734.5	733.6	734.2
740.4	17.5°	740.4	745.5	760.3	774.5	770.6	751.1	736.9	727.4	722.7	721.2
781.3	20°	783.1	783.1	795.2	804.1	778.3	745.2	723.0	707.6	697.8	693.6
837.0	22.5°	834.9	830.2	837.9	831.6	776.9	728.6	697.8	671.1	656.3	650.4
914.9	25°	900.7	895.0	893.0	854.5	766.2	702.2	652.2	619.9	606.9	603.6
1027.1	27.5°	999.9	985.7	958.7	866.9	746.6	660.8	598.9	568.9	561.5	561.8
1171.4	30°	1132.0	1103.5	1037.5	869.0	714.7	602.1	544.4	523.0	519.5	521.0
1292.5	32.5°	1254.3	1227.3	1118.0	859.5	665.5	544.7	495.5	481.3	475.9	477.7
1384.9	35°	1350.2	1342.8	1192.7	846.2	605.1	490.8	451.7	439.5	429.2	426.8
1472.0	37.5°	1440.9	1437.9	1248.7	827.5	545.3	452.5	416.4	400.4	385.3	377.0
1568.2	40°	1540.4	1537.4	1285.4	798.8	492.2	419.4	384.7	363.7	345.0	329.9
1677.2	42.5°	1652.3	1634.9	1302.9	757.6	447.2	391.2	359.0	330.5	305.9	292.0
1800.4	45°	1774.7	1735.3	1302.6	705.2	409.3	365.5	331.4	291.1	268.3	255.3
1926.9	47.5°	1904.4	1831.2	1286.6	647.1	372.6	337.0	288.8	258.0	242.9	234.9
2064.3	50°	2038.3	1921.0	1259.3	580.5	335.0	304.8	262.1	241.1	229.5	222.1
2200.6	52.5°	2164.1	2002.4	1226.4	505.0	296.8	273.4	250.3	234.0	221.8	213.5
2332.6	55°	2281.1	2072.6	1179.9	427.7	265.7	252.3	244.6	231.0	217.1	207.3
2466.8	57.5°	2385.1	2118.2	1099.7	355.1	243.5	237.8	238.7	226.0	210.0	201.7
2598.9	60°	2471.6	2151.7	980.9	287.9	225.4	223.6	229.5	216.5	197.8	188.4
2710.6	62.5°	2523.4	2151.1	835.2	235.8	210.0	210.6	217.4	204.7	185.7	176.8
2768.9	65°	2518.9	2098.4	675.3	201.7	195.2	195.8	204.7	191.6	175.6	170.3
2739.6	67.5°	2429.8	1969.8	518.0	179.5	178.9	181.6	191.9	182.7	169.4	168.8
2564.8	70°	2188.4	1703.0	373.2	161.7	162.0	165.9	179.5	177.1	166.2	167.3
2156.4	72.5°	1754.8	1298.4	250.6	143.1	143.3	149.6	167.6	172.7	162.9	178.6
1530.0	75°	1168.7	809.7	161.1	123.2	123.5	131.5	157.3	164.1	154.0	178.0
796.1	77.5°	561.5	364.0	116.7	103.7	103.7	111.1	135.9	146.9	131.2	138.3
255.9	80°	194.0	136.8	91.8	83.5	81.7	86.8	114.6	127.4	113.1	104.3
83.5	82.5°	76.4	71.1	73.7	64.9	58.9	62.2	89.1	105.1	83.2	75.2
47.1	85°	43.8	46.2	52.1	42.9	34.1	38.2	65.5	75.5	62.8	55.4
15.4	87.5°	11.8	16.3	24.0	22.2	15.4	16.3	31.1	41.8	36.1	27.8
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

180°
625.2
641.2
666.7
697.5
725.9
736.0
736.3
723.3
692.7
649.5
604.2
562.7
526.0
480.1
428.6
377.3
331.4
292.9
254.7
233.1
219.5
210.0
203.5
196.4
184.2
174.1
170.0
169.7
167.0
181.0
179.5
126.8
97.7
74.9
56.6
28.7
0.0

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