

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: P946127

Luminaire Tested: **GALN-SB1D-840-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-840-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9867 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

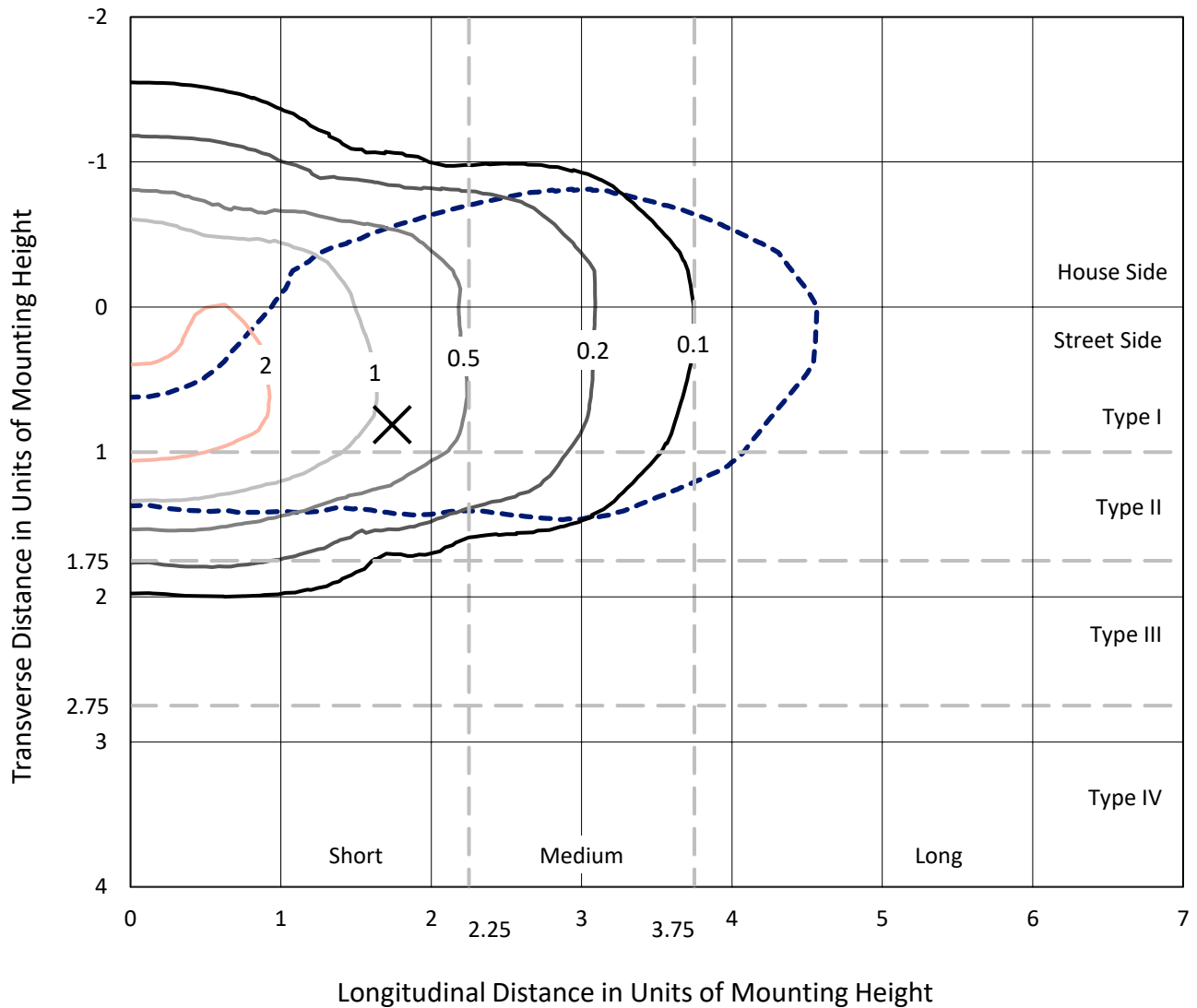
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

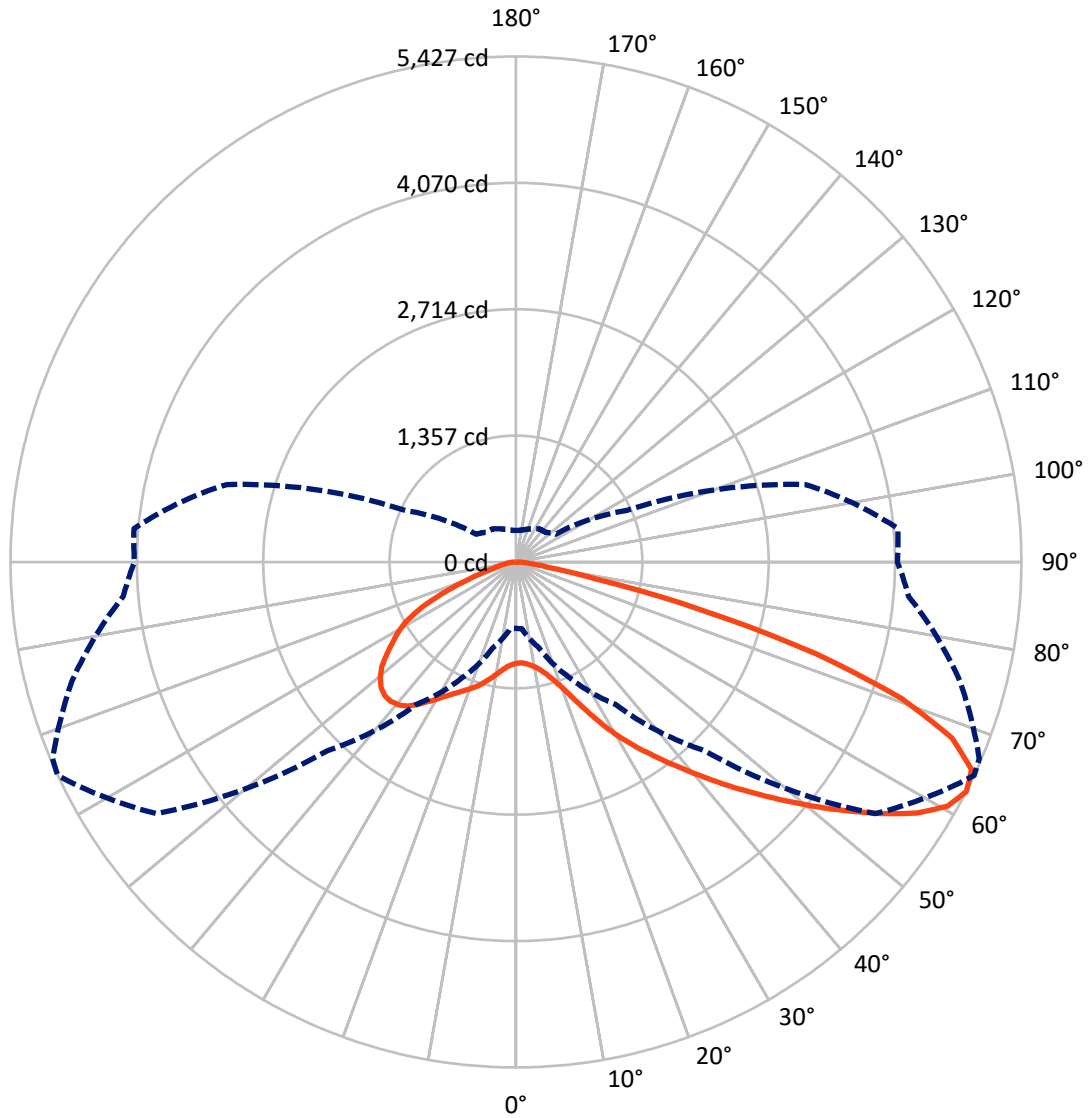
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SB1D-840-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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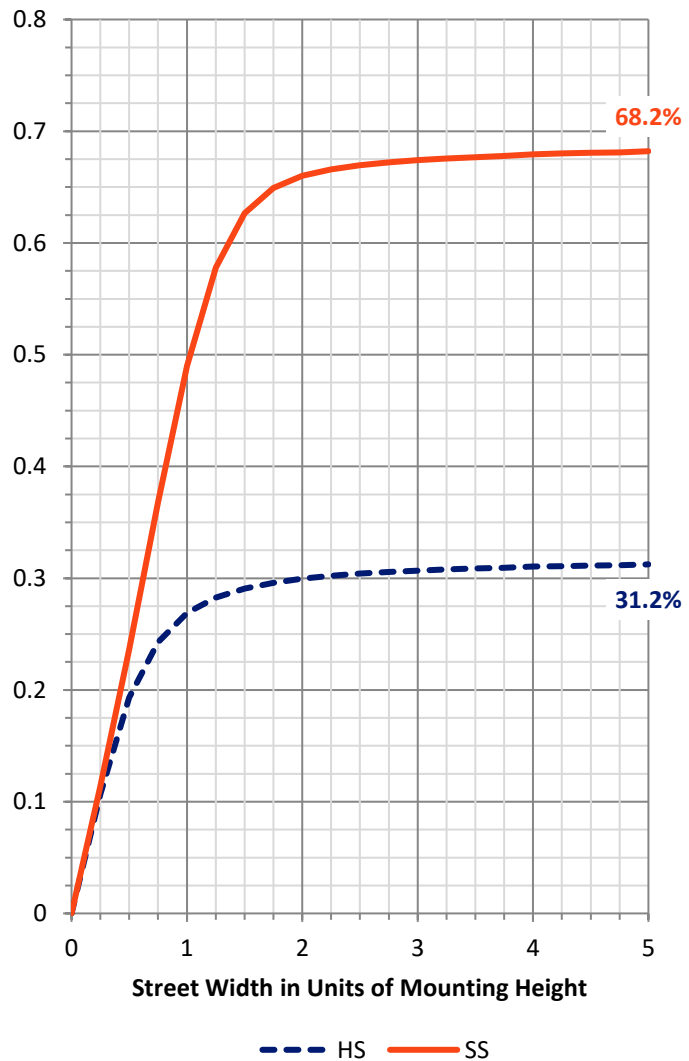
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3113.6	0.0	3113.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6753.4	0.0	6753.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	9867.0	0.0	9867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	1.1
10°-20°	367.6	3.7
20°-30°	745.4	7.6
30°-40°	1289.8	13.1
40°-50°	1951.9	19.8
50°-60°	2288.5	23.2
60°-70°	1918.6	19.4
70°-80°	1059.2	10.7
80°-90°	137.6	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°	9867.0	100.0
0°-180°	9867.0	100.0

Coefficient of Utilization



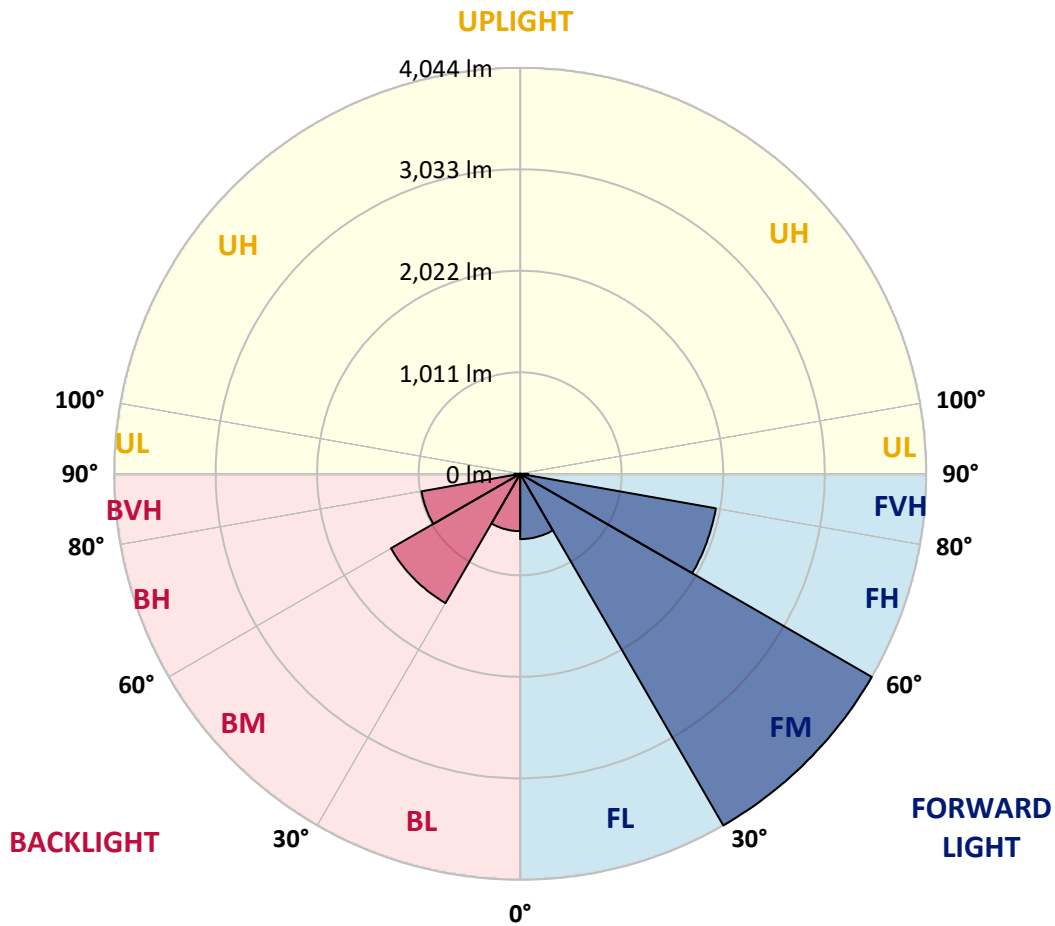
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 CATALOG NUMBER: GALN-SB1D-840-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	650.4	6.6			
FM (30°-60°)	4043.8	41.0			
FH (60°-80°)	1979.0	20.1			G2/5000
FVH (80°-90°)	80.2	0.8			G1/100
BL (0°-30°)	571.0	5.8	B2/1000		
BM (30°-60°)	1486.4	15.1	B2/2500		
BH (60°-80°)	998.8	10.1	B2/1000		G2/1000
BVH (80°-90°)	57.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3
2.5°	1080.1	1077.1	1079.6	1079.6	1080.6	1080.1	1083.7	1084.7	1086.3	1089.3
5°	1069.4	1068.9	1073.5	1077.6	1081.7	1085.3	1089.9	1096.5	1097.5	1101.1
7.5°	1065.8	1062.7	1069.9	1075.0	1084.7	1093.4	1105.7	1117.0	1121.6	1123.1
10°	1093.4	1088.3	1095.0	1098.1	1106.2	1114.9	1129.3	1147.2	1152.3	1158.5
12.5°	1140.5	1134.9	1144.6	1149.2	1156.9	1164.6	1174.3	1191.7	1194.3	1205.6
15°	1205.0	1198.4	1204.5	1210.2	1223.0	1230.1	1239.9	1256.7	1256.7	1265.4
17.5°	1292.6	1283.9	1288.5	1290.5	1298.7	1309.5	1325.9	1340.7	1348.4	1345.3
20°	1423.1	1412.4	1412.4	1402.1	1399.1	1407.8	1429.3	1449.7	1457.9	1442.1
22.5°	1619.2	1603.8	1595.1	1560.3	1546.5	1547.5	1569.0	1594.1	1600.7	1572.6
25°	1868.5	1844.4	1832.6	1781.5	1750.2	1723.1	1740.0	1772.2	1781.5	1746.6
27.5°	2117.8	2119.3	2108.1	2046.6	1994.9	1945.3	1936.6	1970.3	1980.1	1940.7
30°	2467.4	2431.1	2409.6	2335.9	2262.1	2192.5	2156.7	2170.5	2173.1	2126.0
32.5°	2768.9	2759.7	2713.6	2649.1	2554.4	2445.4	2385.5	2363.5	2359.4	2292.3
35°	3112.4	3107.3	3058.7	2981.9	2879.5	2728.0	2620.0	2557.0	2551.9	2457.7
37.5°	3461.5	3461.5	3413.9	3330.0	3224.0	3034.6	2870.3	2770.5	2754.1	2631.2
40°	3740.0	3723.1	3731.8	3696.5	3575.2	3374.0	3148.3	3003.4	2981.4	2833.9
42.5°	3898.2	3892.6	3944.8	3984.2	3934.6	3773.8	3454.4	3255.8	3225.0	3057.1
45°	3933.5	3927.4	4020.6	4164.9	4234.5	4168.5	3787.1	3521.4	3484.1	3290.6
47.5°	3852.1	3839.9	3976.5	4204.3	4427.5	4543.7	4147.5	3809.6	3755.4	3517.9
50°	3607.4	3595.7	3802.5	4105.0	4492.5	4798.7	4538.6	4115.3	4032.3	3761.5
52.5°	3075.6	3081.2	3405.2	3820.9	4407.0	4957.4	4875.4	4437.3	4337.4	4010.8
55°	2395.7	2408.0	2806.3	3263.9	4065.1	4933.3	5105.3	4769.0	4669.7	4245.3
57.5°	1715.4	1769.7	2142.9	2595.9	3408.3	4551.9	5155.5	5084.3	4988.1	4501.2
60°	1111.9	1121.6	1505.5	1962.2	2595.4	3874.1	5053.6	5323.4	5248.1	4762.3
62.5°	712.6	719.2	953.2	1372.4	1868.0	2866.2	4710.6	5427.3	5404.3	4934.8
65°	523.7	518.6	640.4	907.1	1258.3	1767.6	4044.6	5377.1	5422.7	5042.8
67.5°	437.2	430.0	489.9	628.1	927.1	1003.9	2992.6	5051.0	5217.9	5030.6
70°	398.3	392.1	428.5	466.4	723.3	672.1	1508.6	4391.2	4648.2	4890.8
72.5°	337.3	326.6	376.3	414.1	562.6	515.5	623.5	3373.0	3686.3	4442.9
75°	261.6	254.4	296.9	364.5	422.8	402.4	394.2	2048.2	2390.1	3436.0
77.5°	207.3	197.6	236.5	284.1	380.4	303.6	287.2	882.0	1220.9	2193.5
80°	156.1	147.4	179.7	224.7	292.3	228.8	185.8	359.9	460.2	1111.4
82.5°	111.1	103.4	125.4	164.8	196.6	205.3	114.2	201.7	226.8	428.5
85°	71.2	66.5	84.0	103.4	124.9	132.1	69.6	105.5	115.7	176.6
87.5°	38.9	31.7	45.0	48.1	57.8	52.7	33.3	38.4	41.5	64.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946127
 CATALOG NUMBER: GALN-SB1D-840-U-T2U

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1087.3	0°	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3	1087.3
1089.3	2.5°	1091.4	1092.9	1098.1	1099.6	1103.2	1107.8	1110.8	1113.9	1113.9	1117.0
1105.7	5°	1106.2	1109.8	1120.6	1126.2	1135.4	1144.6	1150.3	1156.9	1161.0	1163.1
1131.8	7.5°	1134.9	1140.5	1155.9	1165.6	1181.5	1194.3	1203.0	1212.2	1214.3	1219.9
1168.2	10°	1173.8	1180.5	1197.9	1216.3	1235.2	1251.1	1259.3	1266.0	1268.5	1269.5
1214.8	12.5°	1218.4	1228.1	1250.6	1273.1	1293.1	1306.9	1309.0	1307.4	1300.3	1294.1
1272.1	15°	1273.1	1281.8	1306.9	1331.5	1350.9	1353.5	1340.7	1332.5	1323.8	1322.3
1336.1	17.5°	1338.6	1343.3	1366.3	1390.4	1391.9	1383.2	1364.2	1356.6	1348.4	1342.7
1419.5	20°	1414.9	1413.4	1429.8	1440.0	1429.3	1402.6	1374.0	1361.2	1353.0	1346.3
1521.9	22.5°	1506.0	1494.3	1492.2	1489.7	1461.0	1405.2	1366.3	1349.9	1337.1	1327.9
1664.7	25°	1638.6	1593.6	1562.4	1544.9	1480.4	1391.4	1341.7	1305.4	1281.3	1265.4
1839.3	27.5°	1804.5	1728.7	1649.9	1607.4	1480.4	1363.2	1282.3	1223.5	1184.1	1167.7
2008.2	30°	1962.7	1883.3	1767.1	1682.7	1476.9	1317.1	1186.6	1104.7	1058.6	1042.3
2152.6	32.5°	2097.8	2011.3	1891.5	1765.1	1468.2	1242.4	1067.8	977.2	932.7	913.3
2295.4	35°	2223.2	2131.1	2016.4	1855.7	1445.1	1132.9	937.3	868.2	818.5	787.3
2440.8	37.5°	2351.7	2242.2	2134.7	1937.6	1403.7	1004.9	837.0	778.1	719.7	677.8
2595.4	40°	2491.5	2360.4	2261.1	1986.2	1335.6	883.0	759.2	705.4	643.5	598.9
2773.5	42.5°	2654.8	2502.2	2401.9	2011.3	1242.4	796.5	708.5	655.8	597.4	561.1
2964.5	45°	2825.2	2658.4	2530.4	2010.8	1138.5	756.1	692.1	639.9	575.4	537.5
3160.5	47.5°	3003.9	2821.7	2641.5	1978.0	1048.4	761.7	682.9	605.6	534.4	497.6
3358.7	50°	3183.1	3000.3	2749.0	1916.6	1010.0	749.4	648.6	557.5	473.5	440.2
3544.5	52.5°	3360.7	3190.2	2841.6	1829.1	971.1	703.9	604.6	495.0	448.4	425.4
3736.4	55°	3539.4	3378.1	2942.5	1701.6	873.8	650.6	530.9	471.5	428.5	407.5
3924.3	57.5°	3718.5	3595.2	3038.2	1574.1	751.5	585.1	490.4	442.8	408.5	390.6
4081.5	60°	3904.9	3843.4	3137.0	1456.9	630.7	501.2	460.7	419.8	385.0	365.0
4232.5	62.5°	4096.8	4116.8	3214.3	1305.9	519.6	450.0	434.1	392.1	358.3	339.4
4357.4	65°	4290.3	4380.4	3265.0	1096.5	421.3	401.3	405.4	361.9	327.6	311.2
4449.0	67.5°	4436.2	4570.3	3250.6	829.8	345.5	355.3	369.6	330.2	297.9	285.1
4434.2	70°	4452.6	4547.8	3109.4	568.2	289.2	310.2	329.7	299.0	265.7	256.5
4225.3	72.5°	4234.5	4240.7	2715.7	371.1	244.7	272.3	287.7	267.2	235.0	225.8
3696.5	75°	3662.7	3507.1	1993.9	244.7	204.8	233.9	248.3	233.9	202.7	204.8
2765.9	77.5°	2775.1	2483.8	1210.7	174.1	171.0	196.6	216.0	205.8	179.2	201.2
1390.9	80°	1429.8	1343.8	540.1	130.0	135.1	157.2	177.6	164.3	141.8	135.1
310.7	82.5°	327.6	380.9	213.0	93.2	97.8	113.1	135.7	123.4	101.9	86.0
129.5	85°	114.7	125.4	94.2	58.4	57.3	70.6	92.1	82.4	69.1	55.3
54.8	87.5°	36.3	47.6	35.3	23.5	24.6	31.7	42.5	38.9	32.3	21.0
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>
1087.3
1117.0
1164.1
1217.8
1267.0
1294.1
1322.3
1343.3
1346.8
1331.0
1271.6
1175.9
1052.0
923.0
797.6
689.0
607.6
568.2
543.7
502.7
442.3
425.4
405.4
387.5
363.5
338.9
310.7
285.6
257.0
225.2
197.6
177.1
123.4
85.0
58.4
22.0
0.0

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