

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: P945163

Luminaire Tested: **GALN-SB1A-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945163
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-SB1A-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3338 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

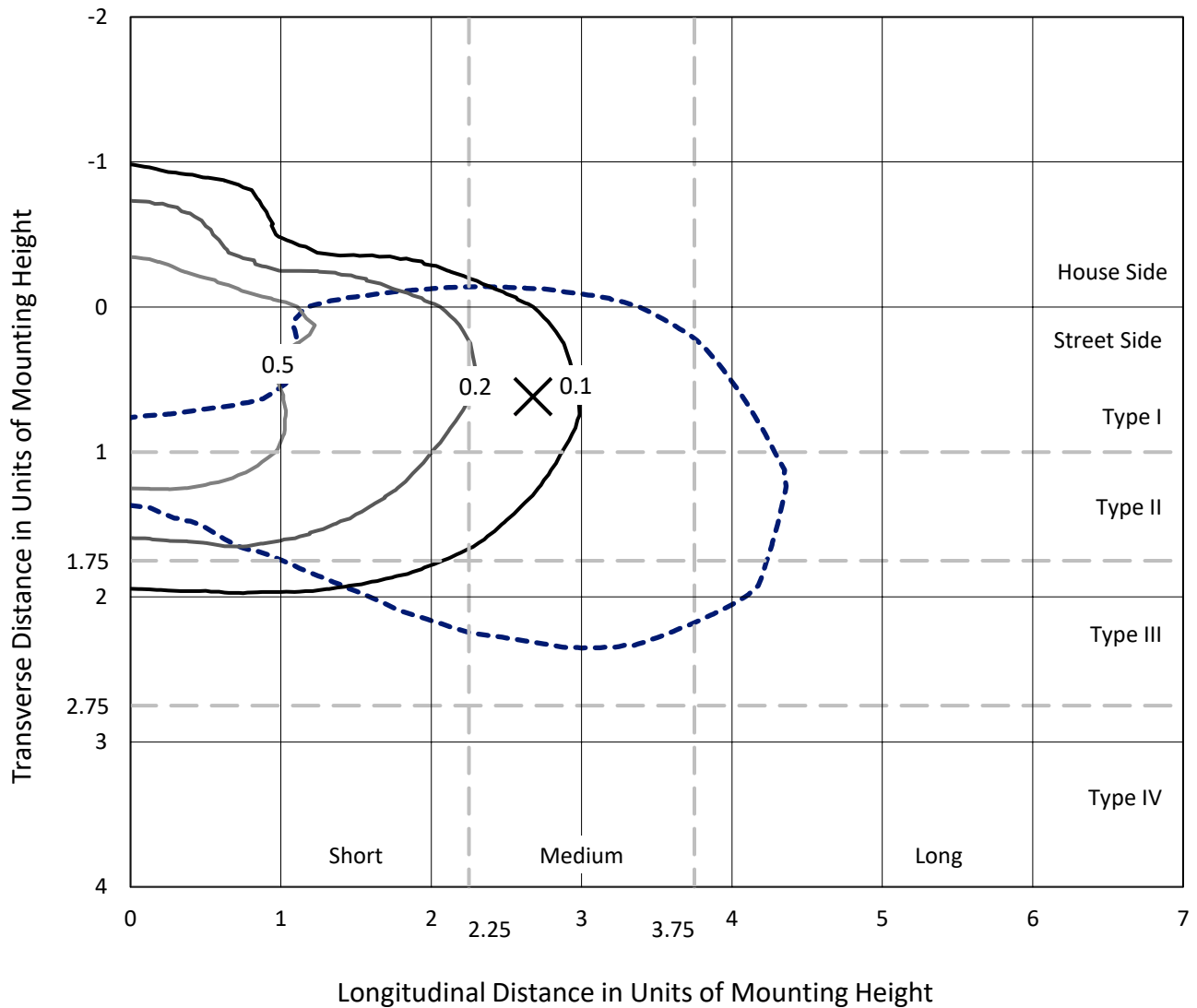
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945163
 CATALOG NUMBER: GALN-SB1A-940-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

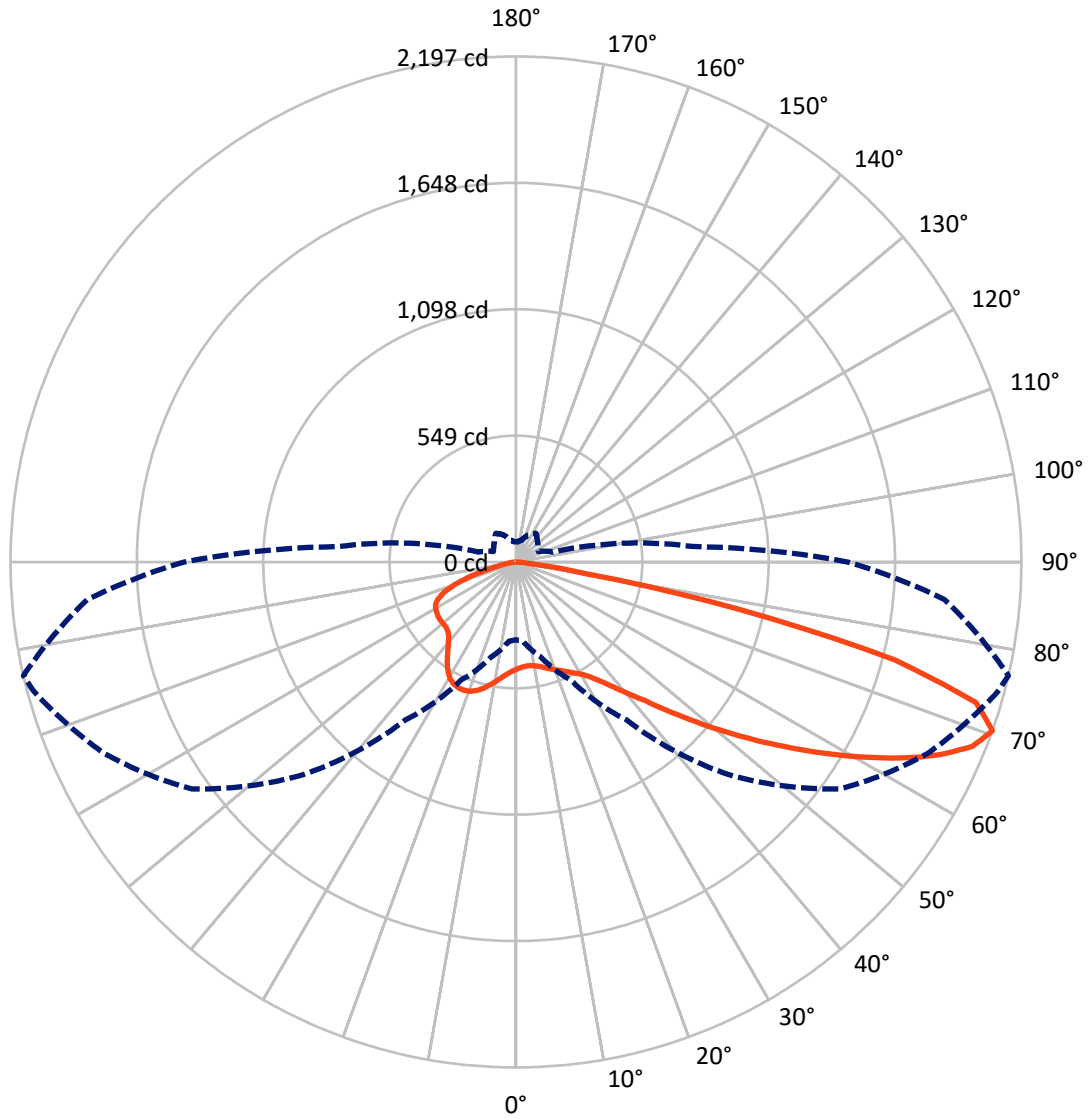
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P945163
CATALOG NUMBER: GALN-SB1A-940-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: GALN-SB1A-940-U-T3R

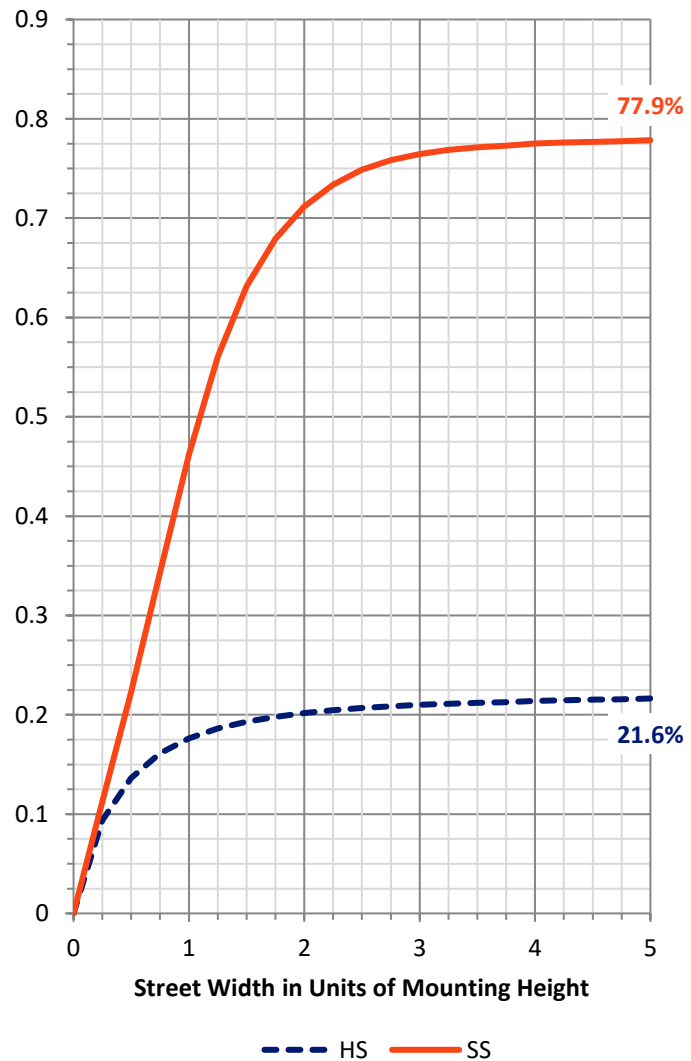
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	731.0	0.0	731.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	2607.0	0.0	2607.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	3338.0	0.0	3338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	1.3
10°-20°	128.2	3.8
20°-30°	219.2	6.6
30°-40°	352.5	10.6
40°-50°	550.4	16.5
50°-60°	735.2	22.0
60°-70°	783.6	23.5
70°-80°	482.4	14.5
80°-90°	42.3	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°	3338.0	100.0
0°-180°	3338.0	100.0

Coefficient of Utilization



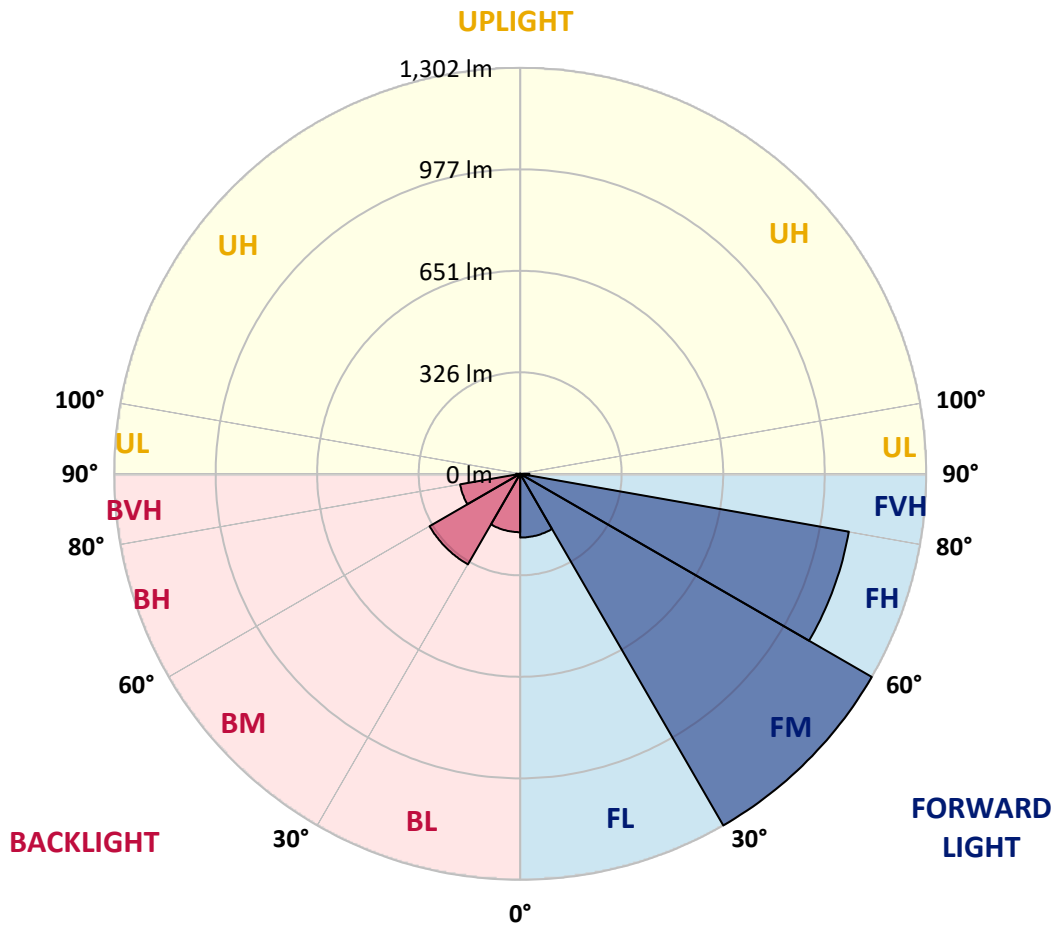
REPORT NUMBER: P945163
 CATALOG NUMBER: GALN-SB1A-940-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	204.5	6.1			
FM (30°-60°)	1302.4	39.0			
FH (60°-80°)	1070.5	32.1			G1/1800
FVH (80°-90°)	29.6	0.9			G1/100
BL (0°-30°)	187.3	5.6	B1/500		
BM (30°-60°)	335.6	10.1	B1/1000		
BH (60°-80°)	195.4	5.9	B1/500		G1/500
BVH (80°-90°)	12.7	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-G1

Type III Medium



REPORT NUMBER: P945163
 CATALOG NUMBER: GALN-SB1A-940-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7
2.5°	429.3	429.1	431.3	432.0	436.1	439.0	444.5	450.3	457.8	458.7
5°	404.5	404.5	407.0	409.8	415.1	420.9	429.3	439.4	452.3	454.4
7.5°	383.5	384.8	387.0	392.3	398.5	406.9	419.7	434.1	451.2	454.4
10°	366.5	368.1	370.8	375.1	384.3	395.9	412.7	431.1	454.1	459.2
12.5°	361.2	362.8	364.3	367.6	376.1	389.8	409.8	432.5	461.1	466.2
15°	373.5	375.4	374.2	373.4	377.8	390.3	411.1	437.5	469.8	477.1
17.5°	401.9	402.6	399.9	391.8	391.1	397.8	417.6	444.3	480.7	488.8
20°	447.7	446.5	440.9	425.0	415.9	414.6	428.8	454.6	492.0	500.6
22.5°	510.0	508.6	497.3	472.2	452.0	438.7	444.8	467.9	504.7	514.2
25°	587.6	585.7	569.1	534.9	503.6	470.6	466.7	485.5	520.2	529.1
27.5°	678.2	676.6	658.7	613.6	568.4	514.4	493.9	506.2	536.5	546.5
30°	775.6	780.1	748.3	699.7	642.6	571.5	530.5	531.7	557.5	566.5
32.5°	890.2	897.9	859.6	798.0	720.1	633.6	576.6	567.2	588.1	595.6
35°	1003.7	1012.4	980.6	912.6	822.8	706.7	624.8	608.1	628.8	637.0
37.5°	1101.8	1113.4	1097.0	1037.9	932.7	794.9	687.8	656.1	678.9	689.1
40°	1179.2	1197.0	1195.8	1158.9	1062.3	902.0	767.6	715.4	741.1	752.2
42.5°	1242.2	1257.5	1270.9	1269.0	1197.5	1023.5	861.4	792.5	812.0	824.9
45°	1285.6	1302.0	1330.7	1361.7	1327.6	1153.6	969.0	884.0	901.8	921.1
47.5°	1324.4	1343.0	1380.3	1429.4	1438.1	1284.2	1086.8	990.5	1006.8	1026.8
50°	1327.8	1343.9	1401.7	1471.2	1516.5	1409.7	1213.3	1110.0	1125.2	1146.6
52.5°	1245.2	1270.5	1371.4	1470.0	1552.6	1514.7	1338.9	1234.3	1251.4	1277.0
55°	966.6	1003.7	1282.7	1424.2	1539.8	1582.5	1458.4	1366.4	1388.3	1415.2
57.5°	832.6	848.8	1018.2	1340.8	1481.3	1600.1	1559.3	1500.0	1535.2	1564.6
60°	748.3	761.8	862.0	1211.0	1404.4	1572.3	1637.2	1624.4	1685.3	1720.3
62.5°	658.0	670.8	761.9	1011.2	1305.9	1525.9	1686.5	1739.3	1839.1	1877.4
65°	568.4	579.4	666.7	849.6	1180.8	1479.6	1711.9	1838.6	1981.5	2021.2
67.5°	468.6	477.6	560.2	716.8	1028.6	1416.2	1724.6	1916.7	2105.5	2139.5
70°	338.1	345.2	430.5	566.9	837.7	1307.1	1719.5	1972.1	2169.8	2196.9
72.5°	159.8	166.2	266.3	368.1	591.7	1094.8	1615.7	1928.2	2104.5	2091.0
75°	85.3	90.8	153.0	201.9	312.5	750.5	1322.2	1661.0	1767.2	1701.5
77.5°	57.8	62.1	94.7	121.2	142.7	356.3	849.8	1150.0	1106.4	998.0
80°	45.8	50.3	77.6	82.1	69.1	128.7	351.1	532.4	382.4	305.8
82.5°	35.2	40.2	65.3	59.5	37.6	52.8	102.2	168.4	98.0	74.5
85°	21.5	26.8	51.3	38.0	21.2	24.1	34.7	46.8	29.9	25.0
87.5°	10.9	15.4	26.0	13.8	9.6	5.6	9.2	9.2	7.9	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945163
 CATALOG NUMBER: GALN-SB1A-940-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
465.7	0°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7
463.3	2.5°	467.4	470.8	476.6	482.1	486.4	490.5	494.6	496.8	497.5	500.2
465.9	5°	472.9	479.2	490.5	501.1	507.7	511.8	514.7	516.5	516.8	517.7
472.9	7.5°	482.9	493.0	508.8	519.4	524.3	524.0	522.8	518.5	516.8	515.3
483.1	10°	497.1	510.5	529.8	537.1	534.1	525.9	515.3	502.8	497.0	491.3
497.1	12.5°	514.7	531.7	550.6	550.3	535.1	514.1	489.4	470.3	458.2	449.4
514.4	15°	536.1	555.6	570.1	558.5	525.2	487.4	451.3	426.4	415.4	405.8
531.8	17.5°	558.2	579.0	585.7	555.9	500.2	447.9	407.0	387.4	376.6	371.5
550.6	20°	579.7	600.4	594.9	541.2	462.3	403.1	366.7	355.9	353.7	354.9
568.9	22.5°	602.4	620.9	596.8	512.9	413.9	357.3	337.3	337.6	342.6	346.2
588.1	25°	625.7	638.2	591.8	471.8	361.9	323.6	318.7	324.1	333.9	340.9
609.6	27.5°	648.1	653.6	581.1	421.1	317.3	299.5	300.4	311.7	326.4	336.1
635.8	30°	673.4	667.2	560.4	364.0	286.3	278.8	286.0	299.2	313.9	322.6
668.8	32.5°	701.9	679.0	527.6	311.1	264.5	262.2	274.0	282.6	289.1	291.6
712.5	35°	737.5	695.6	485.5	274.0	244.8	250.1	261.4	257.1	254.6	253.2
771.3	37.5°	783.7	718.0	436.3	249.9	228.9	241.4	246.0	232.7	222.6	217.6
842.6	40°	839.2	750.8	388.9	231.3	218.8	233.9	225.8	209.8	196.9	189.9
922.8	42.5°	900.9	785.2	349.1	217.3	213.2	227.7	211.0	191.8	171.1	168.9
1018.4	45°	965.7	820.6	321.9	206.5	210.4	222.4	202.4	171.5	156.8	165.8
1114.3	47.5°	1030.5	853.1	305.5	198.5	209.1	216.4	194.9	160.2	149.8	162.9
1217.0	50°	1102.7	882.1	298.1	192.7	207.5	214.0	183.6	157.3	142.4	151.1
1323.4	52.5°	1174.3	904.7	292.7	186.9	205.3	212.2	178.1	153.9	133.5	134.0
1430.4	55°	1245.7	919.4	286.7	179.2	200.4	208.1	177.6	150.1	126.8	124.5
1543.6	57.5°	1322.0	927.8	279.3	170.6	191.8	197.6	177.1	147.2	124.8	120.9
1659.3	60°	1399.6	940.1	269.8	160.2	180.4	185.1	175.9	146.2	123.6	116.9
1768.4	62.5°	1469.2	944.4	258.3	150.3	165.7	172.8	173.3	145.3	120.4	108.9
1859.0	65°	1514.8	925.9	238.3	139.0	149.8	160.2	168.4	142.4	114.5	103.1
1903.8	67.5°	1513.0	873.2	207.0	124.5	134.4	146.2	161.2	137.4	107.5	95.9
1869.9	70°	1442.5	769.3	167.4	107.5	117.4	131.1	152.0	130.1	99.2	88.0
1662.7	72.5°	1237.2	602.1	121.5	87.7	97.8	115.6	140.0	121.2	90.6	81.0
1228.8	75°	883.8	381.1	82.4	67.4	76.1	98.0	125.1	110.8	82.7	81.4
615.4	77.5°	451.5	182.1	54.5	49.2	53.0	77.3	105.1	99.0	83.9	67.2
175.1	80°	146.9	67.2	34.4	33.5	35.2	51.5	81.4	81.2	63.6	45.6
42.4	82.5°	46.8	28.9	22.4	21.5	20.7	32.3	56.8	64.3	42.9	28.9
15.2	85°	18.6	17.3	13.2	12.1	8.7	15.2	29.7	42.7	32.0	20.9
3.9	87.5°	6.8	6.8	3.6	2.6	1.9	5.1	8.0	12.8	18.3	10.8
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>
465.7
501.8
519.0
515.6
489.6
447.4
404.8
373.0
354.4
347.0
342.8
338.5
324.6
293.0
254.6
218.8
190.4
171.1
170.6
169.1
157.6
137.6
126.2
121.4
117.4
108.9
103.1
96.4
89.1
80.5
76.8
59.8
40.3
28.7
21.4
10.6
0.0

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