

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: P938865

Luminaire Tested: **GALN-SB1A-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3222 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

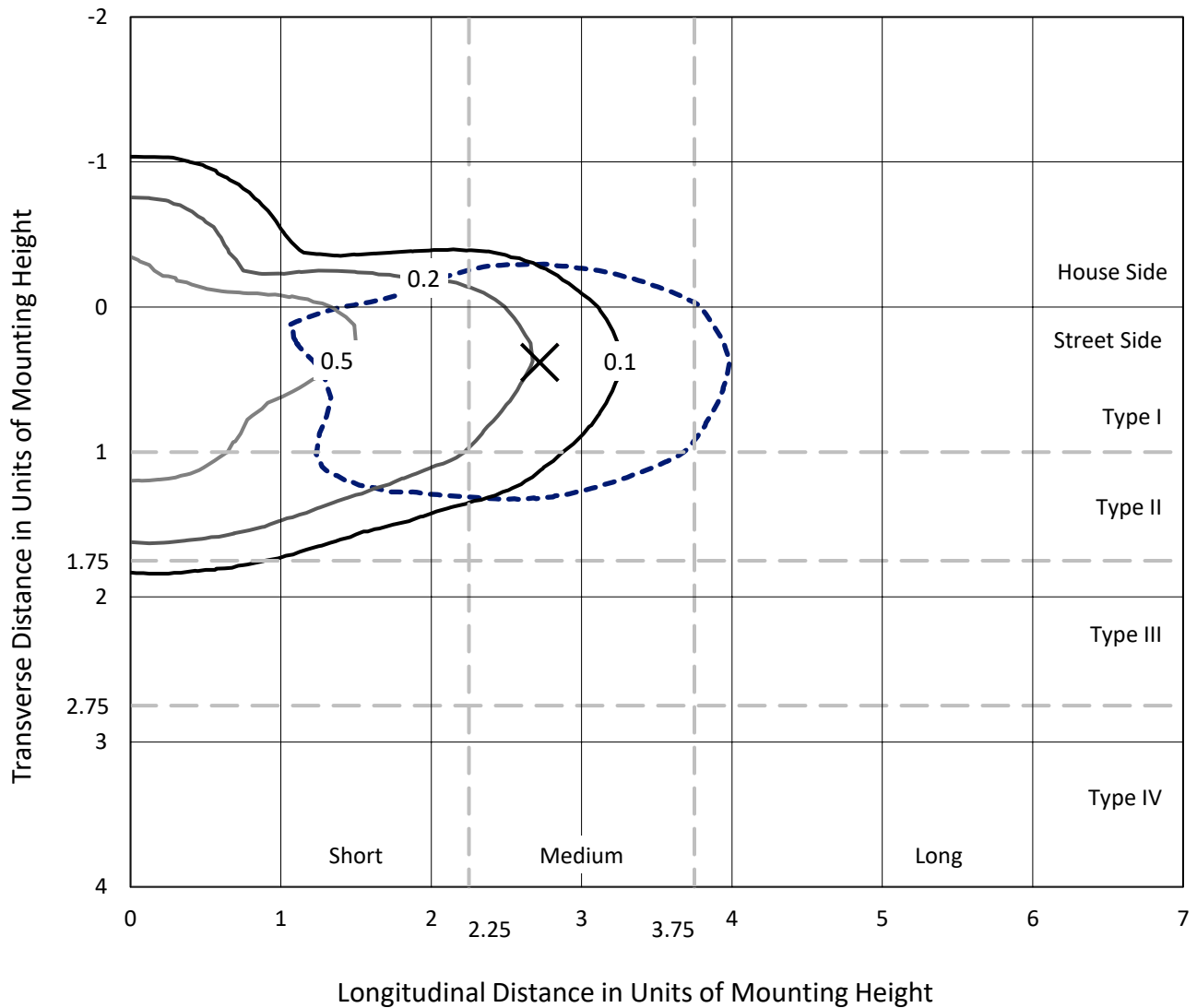
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

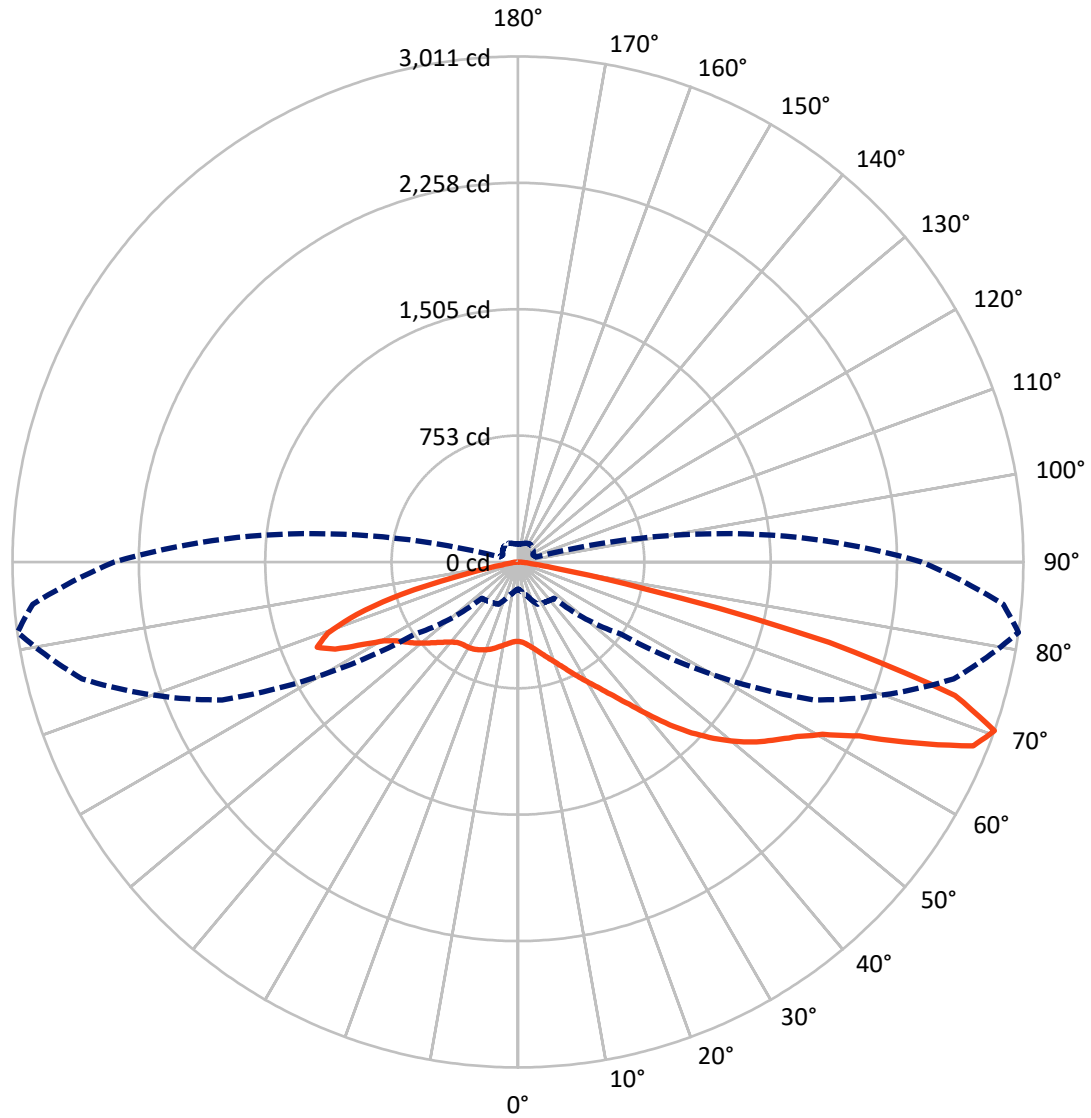
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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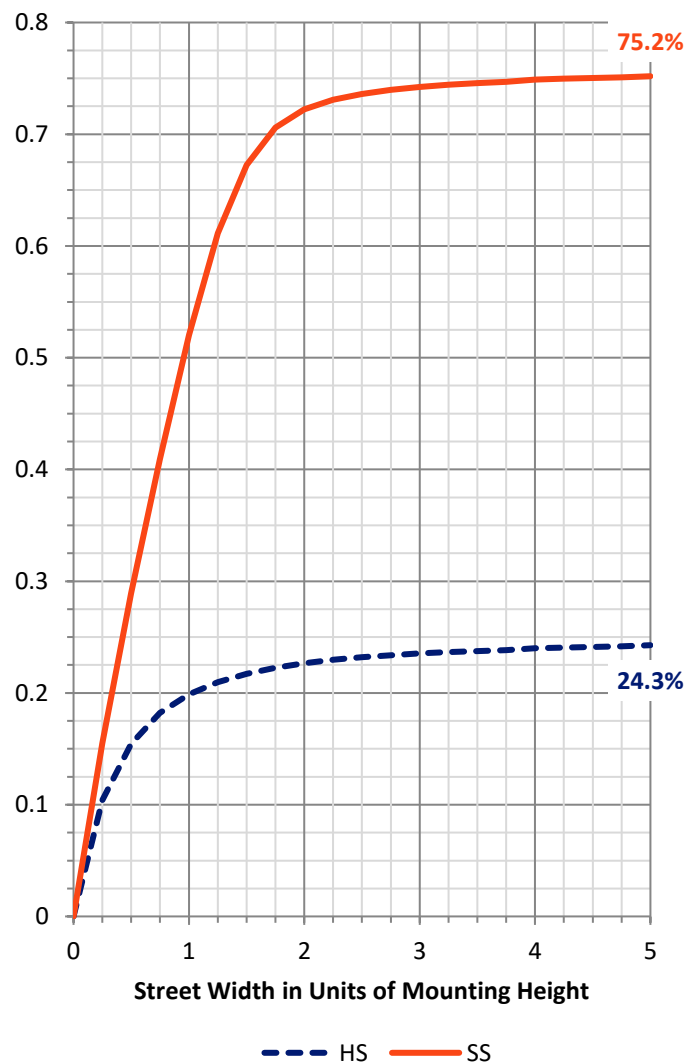
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	794.3	0.0	794.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	2427.7	0.0	2427.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	3222.0	0.0	3222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	1.4
10°-20°	128.1	4.0
20°-30°	214.4	6.7
30°-40°	334.9	10.4
40°-50°	533.4	16.6
50°-60°	742.2	23.0
60°-70°	776.4	24.1
70°-80°	405.8	12.6
80°-90°	42.1	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°	3222.0	100.0
0°-180°	3222.0	100.0

Coefficient of Utilization



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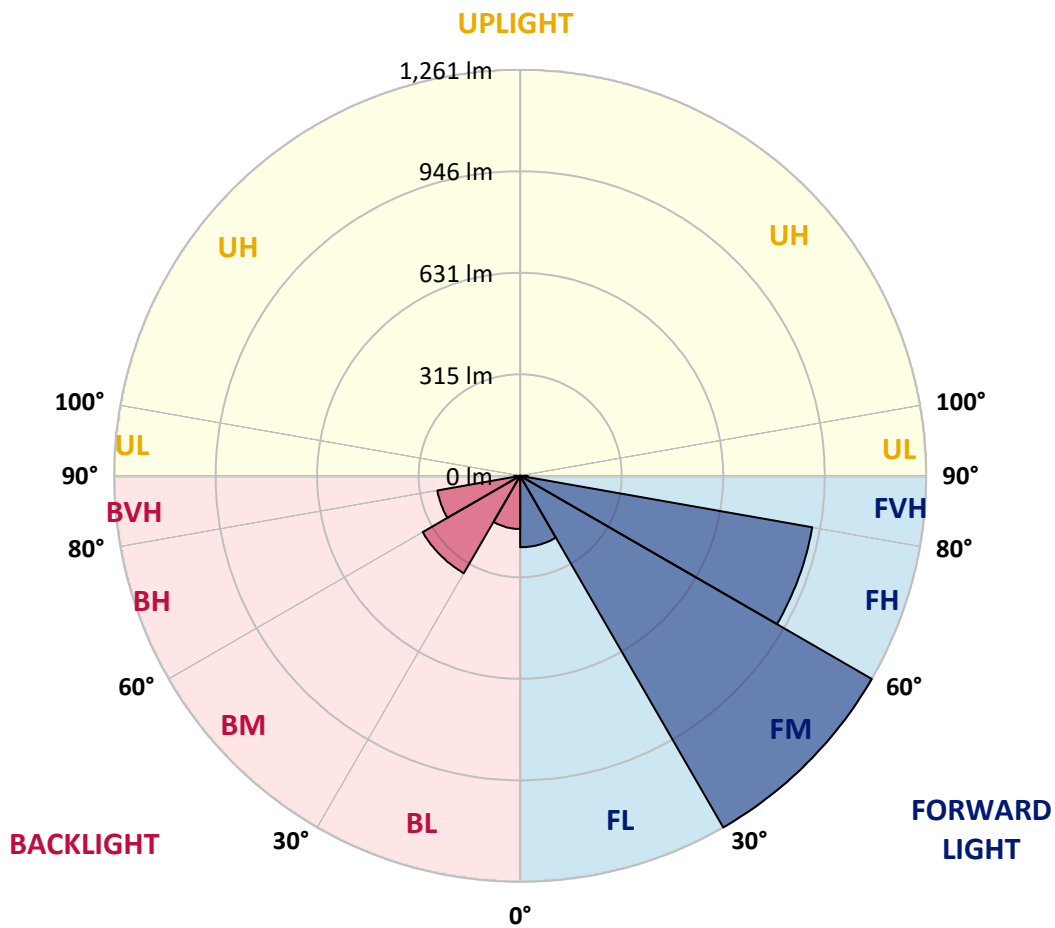
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	221.9	6.9			
FM (30°-60°)	1261.1	39.1			
FH (60°-80°)	921.2	28.6			G1/1800
FVH (80°-90°)	23.6	0.7			G1/100
BL (0°-30°)	165.2	5.1	B1/500		
BM (30°-60°)	349.5	10.8	B1/1000		
BH (60°-80°)	261.0	8.1	B1/500		G1/500
BVH (80°-90°)	18.5	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4
2.5°	483.7	486.4	485.6	484.7	484.7	483.5	483.3	481.6	480.3	478.0
5°	489.8	492.7	492.4	493.1	495.3	495.8	496.3	495.3	492.6	489.8
7.5°	484.4	487.6	488.6	492.7	499.6	505.7	510.3	512.2	509.7	505.7
10°	465.9	469.5	473.1	482.8	495.0	509.5	521.8	529.1	528.6	524.9
12.5°	428.4	432.2	439.9	458.9	481.1	506.8	529.7	545.0	550.3	547.6
15°	398.5	401.8	407.6	427.1	456.0	495.0	532.6	562.5	576.0	574.5
17.5°	397.7	399.0	402.6	411.9	434.1	476.5	529.5	579.6	605.4	605.2
20°	412.7	413.2	415.3	417.2	429.8	462.5	521.6	593.8	638.4	638.4
22.5°	433.6	433.2	435.3	433.6	439.7	461.3	516.7	606.3	675.2	677.9
25°	464.9	463.2	462.6	458.7	459.9	472.4	522.1	620.4	718.8	724.4
27.5°	506.6	503.8	502.0	492.9	489.8	495.3	538.9	637.5	767.3	777.1
30°	560.9	556.0	553.3	537.5	526.4	527.3	564.2	660.3	818.1	833.8
32.5°	635.1	627.5	620.1	594.3	573.9	567.3	596.9	691.7	873.1	898.3
35°	718.2	712.1	704.2	664.4	633.1	617.7	641.0	735.7	937.6	977.4
37.5°	798.3	793.0	796.7	743.0	702.7	680.3	698.7	794.7	1017.1	1075.9
40°	881.0	876.9	877.4	826.1	779.1	754.0	768.8	868.7	1108.2	1193.0
42.5°	970.9	967.9	957.6	912.1	859.3	835.9	849.5	954.2	1206.0	1326.4
45°	1071.6	1069.7	1060.2	1008.0	947.5	921.2	939.6	1048.5	1304.3	1451.9
47.5°	1158.7	1160.2	1159.0	1115.1	1052.3	1013.7	1035.7	1147.0	1395.8	1569.8
50°	1200.5	1208.6	1220.4	1206.7	1167.7	1128.4	1132.7	1242.1	1483.0	1680.4
52.5°	1178.7	1193.9	1226.0	1247.9	1262.9	1254.7	1243.3	1336.5	1565.0	1780.3
55°	1097.1	1118.5	1171.8	1224.6	1301.4	1361.1	1376.1	1441.1	1645.1	1868.2
57.5°	948.5	983.2	1031.1	1138.0	1267.2	1412.5	1531.0	1586.2	1729.9	1962.0
60°	693.8	740.3	799.8	958.8	1147.5	1385.0	1662.8	1809.2	1850.4	2083.6
62.5°	444.0	472.7	527.4	677.2	894.2	1244.0	1703.2	2087.9	2054.7	2282.9
65°	304.0	322.4	372.5	456.7	578.0	926.0	1595.1	2296.8	2379.2	2598.9
67.5°	220.9	234.9	277.7	351.3	376.6	548.0	1237.8	2287.2	2694.6	2924.4
70°	161.1	171.0	206.9	277.7	289.8	304.8	749.9	1944.3	2687.8	3010.9
72.5°	119.3	126.2	150.3	215.4	234.6	205.8	371.2	1413.1	2309.6	2723.4
75°	86.3	91.5	109.2	164.8	187.7	156.8	185.2	825.8	1611.0	1915.7
77.5°	66.0	69.9	81.6	120.7	150.3	117.6	114.9	379.9	763.9	767.6
80°	53.0	55.6	61.9	85.0	115.2	88.0	74.9	153.4	241.4	204.3
82.5°	39.0	43.3	52.3	59.7	82.4	60.7	45.6	77.4	91.8	79.0
85°	22.2	25.1	31.6	42.7	52.7	37.1	26.2	34.4	42.7	35.0
87.5°	7.9	10.3	11.1	16.8	22.9	15.4	10.1	9.9	14.0	10.4
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°
472.4	0°	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4
477.5	2.5°	475.8	475.0	471.5	466.9	462.1	457.5	456.0	452.7	450.5	449.3
488.6	5°	485.4	482.6	474.6	464.3	453.6	442.0	433.7	426.2	420.8	415.6
503.8	7.5°	499.1	494.3	480.4	462.5	443.3	424.0	409.6	398.7	391.3	386.6
521.6	10°	515.0	507.6	486.4	459.6	430.0	402.3	385.4	376.0	371.3	368.8
542.0	12.5°	533.3	522.8	492.6	452.9	409.6	378.0	366.4	363.6	363.8	364.0
567.6	15°	555.8	541.3	497.5	438.4	383.1	359.4	357.3	361.8	366.4	368.6
596.7	17.5°	581.3	560.8	498.4	414.4	357.2	347.4	353.9	363.5	370.5	373.6
629.2	20°	608.6	580.6	492.2	380.6	335.8	337.7	349.3	361.6	369.3	373.2
666.3	22.5°	639.9	601.8	477.5	345.0	318.3	327.1	340.7	352.7	360.7	364.7
709.9	25°	675.7	625.6	454.4	315.1	303.3	315.1	328.8	338.7	345.2	348.8
758.6	27.5°	715.3	650.4	423.7	291.3	290.1	302.8	314.1	321.8	325.2	327.9
810.4	30°	755.2	672.9	386.4	273.4	278.7	290.6	298.7	302.1	303.1	303.6
868.2	32.5°	798.3	692.4	347.2	258.5	267.7	278.8	283.6	285.2	280.4	277.1
938.3	35°	850.4	713.3	308.9	246.7	257.0	266.5	268.1	266.7	261.1	254.4
1026.2	37.5°	914.9	739.3	278.3	238.3	246.9	253.2	251.3	251.0	251.5	243.6
1131.8	40°	993.8	773.1	255.9	231.8	238.7	240.0	234.7	237.6	240.2	228.2
1247.7	42.5°	1081.5	814.0	241.7	227.4	231.8	228.6	220.4	223.6	223.3	207.6
1364.2	45°	1171.0	858.4	236.8	224.1	225.5	219.0	209.9	210.8	203.6	189.4
1475.8	47.5°	1259.9	906.1	239.9	221.4	217.6	210.3	203.3	199.5	188.9	178.3
1582.8	50°	1347.1	956.2	251.2	215.9	206.9	202.6	197.5	190.8	179.5	170.5
1684.0	52.5°	1427.9	1006.7	263.8	206.9	193.4	195.9	192.7	185.0	173.9	164.6
1779.8	55°	1504.5	1057.1	268.8	194.4	180.7	190.1	188.2	174.0	160.7	153.2
1880.0	57.5°	1588.0	1117.8	263.3	178.5	170.5	183.4	176.3	160.5	152.8	147.2
2010.4	60°	1703.5	1213.0	251.5	158.8	160.7	173.5	161.2	154.7	146.3	140.0
2206.0	62.5°	1895.5	1390.7	232.5	139.3	149.3	158.8	154.0	147.5	139.0	132.8
2540.4	65°	2179.3	1637.5	196.8	124.1	136.4	144.5	146.3	139.9	131.0	124.5
2833.5	67.5°	2418.7	1792.4	148.9	111.5	123.3	132.8	138.1	131.8	122.4	116.1
2902.0	70°	2405.5	1679.9	113.7	99.0	111.6	121.4	128.2	123.3	113.2	107.2
2636.0	72.5°	2136.6	1405.4	92.0	86.3	99.8	109.4	117.6	113.9	103.6	97.8
1931.1	75°	1569.7	997.6	73.5	73.5	85.1	96.9	106.0	103.6	94.2	90.1
810.7	77.5°	661.6	418.5	57.6	61.0	70.8	83.3	94.5	95.4	87.2	92.3
214.4	80°	175.9	115.4	43.9	48.0	55.6	68.7	82.2	81.9	73.0	68.2
79.7	82.5°	67.0	45.5	31.3	33.9	40.2	52.7	65.1	67.2	58.3	50.4
31.3	85°	25.8	19.5	19.3	20.3	23.4	34.9	49.2	50.9	43.9	37.3
8.7	87.5°	6.7	5.8	7.2	6.8	10.8	18.6	28.2	29.2	26.8	15.6
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>
472.4
450.7
417.7
387.6
369.5
364.3
368.4
374.2
374.2
365.7
349.8
328.9
304.8
278.2
254.7
244.1
228.6
207.4
189.9
178.3
169.8
164.8
152.5
146.7
139.7
132.8
124.8
116.3
107.7
97.8
88.9
83.8
63.4
50.4
38.5
22.2
0.0

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