

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: P938799

Luminaire Tested: **GALN-SB1A-830-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938799  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-830-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

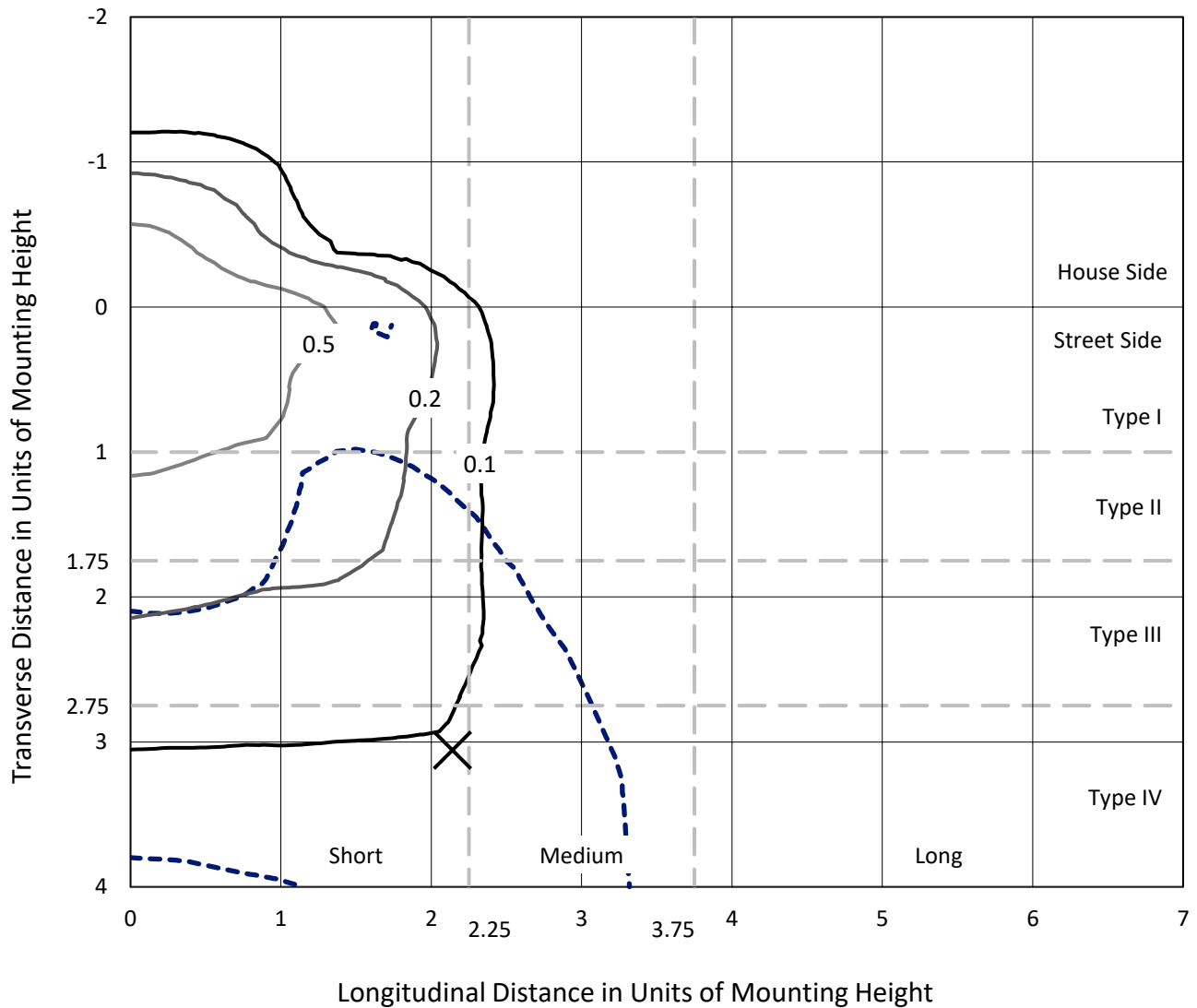
Lumens per Lamp: N/A  
Luminaire Lumens: 3985 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

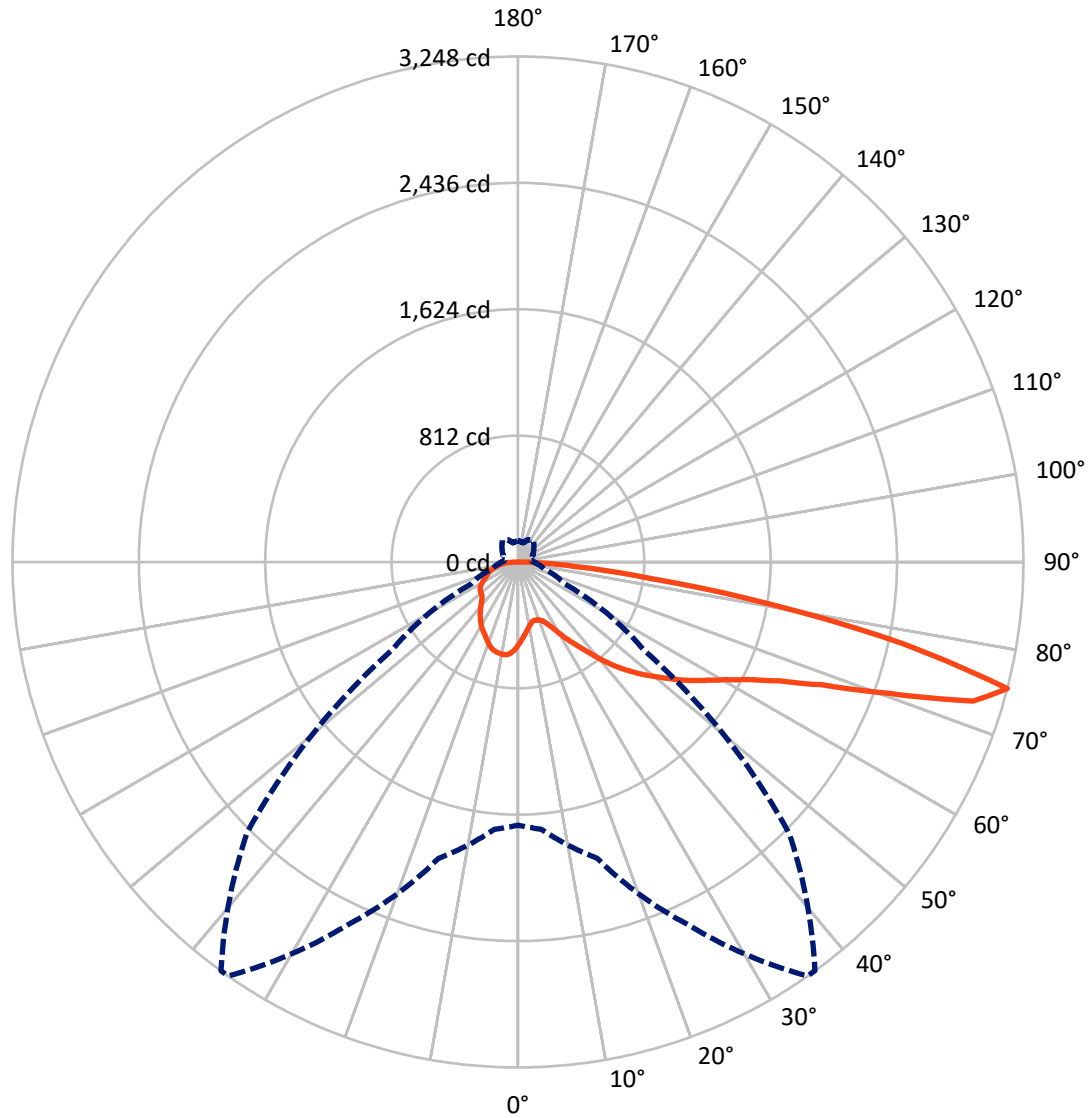
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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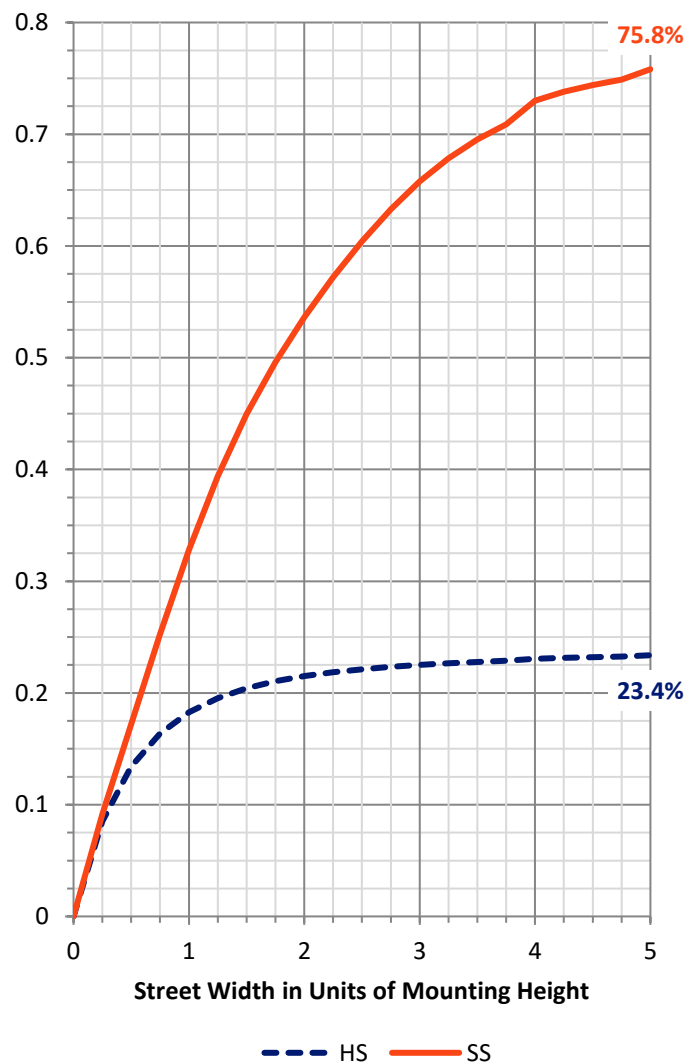
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	948.3	0.0	948.3
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	3036.7	0.0	3036.7
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	3985.0	0.0	3985.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.3	1.3
10°-20°	145.0	3.6
20°-30°	243.5	6.1
30°-40°	378.5	9.5
40°-50°	561.8	14.1
50°-60°	775.6	19.5
60°-70°	940.9	23.6
70°-80°	777.6	19.5
80°-90°	111.8	2.8
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°	3985.0	100.0
0°-180°	3985.0	100.0

**Coefficient of Utilization**



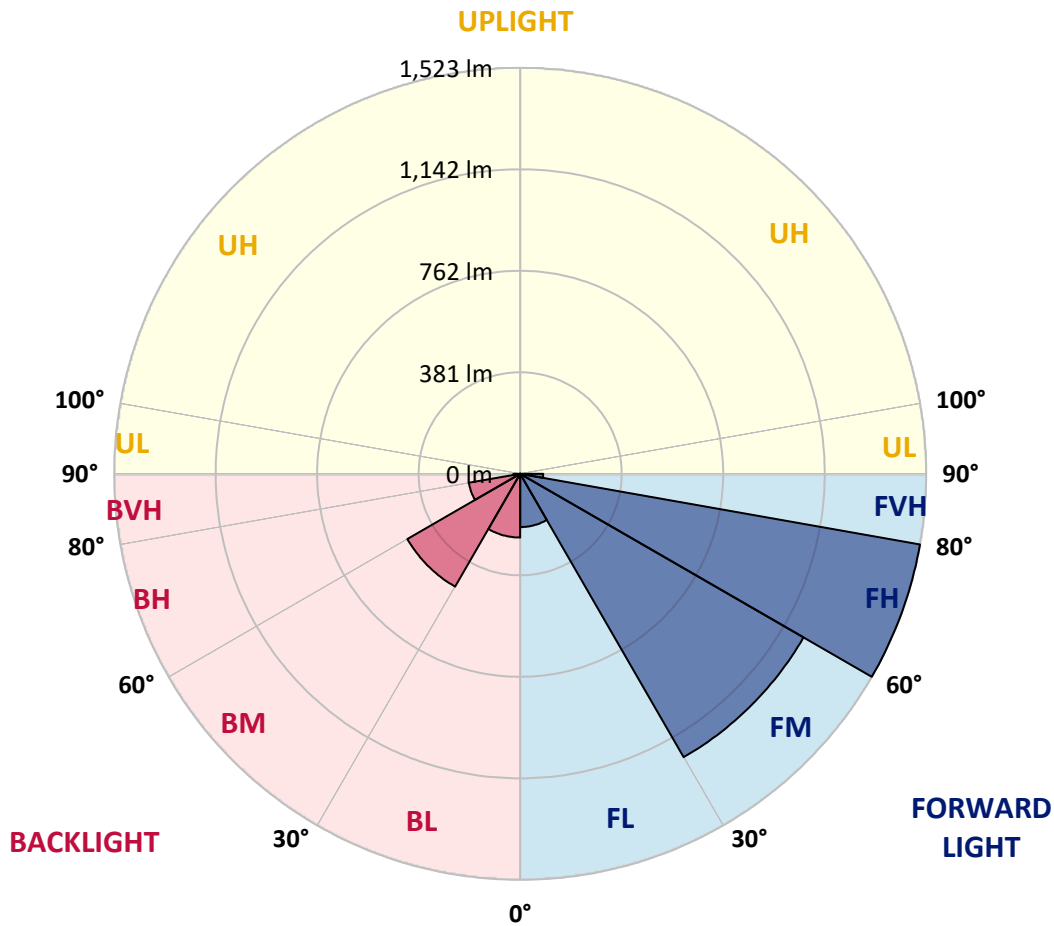
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	199.8	5.0			
FM (30°-60°)	1227.2	30.8			
FH (60°-80°)	1523.0	38.2			G1/1800
FVH (80°-90°)	86.7	2.2			G1/100
BL (0°-30°)	239.0	6.0	B1/500		
BM (30°-60°)	488.6	12.3	B1/1000		
BH (60°-80°)	195.5	4.9	B1/500		G1/500
BVH (80°-90°)	25.2	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0
2.5°	489.7	492.7	494.0	493.3	496.6	496.1	500.7	506.3	514.0	521.5
5°	452.0	455.2	458.0	460.6	466.8	468.8	475.9	486.7	500.9	515.3
7.5°	416.9	419.7	424.0	428.7	439.3	441.2	453.0	469.8	489.7	510.8
10°	388.2	391.0	395.5	400.9	414.1	416.4	431.5	453.9	479.8	506.5
12.5°	375.9	376.8	379.4	384.8	396.2	397.7	414.3	439.9	470.1	503.2
15°	375.3	377.0	377.2	380.0	389.5	390.1	405.4	430.9	464.0	502.6
17.5°	381.7	383.0	381.1	382.8	390.8	391.9	403.9	426.5	462.1	505.4
20°	399.0	400.0	394.2	391.9	397.7	398.5	410.4	429.3	464.0	511.2
22.5°	435.6	436.2	422.0	412.3	412.8	413.2	423.5	440.8	471.6	521.8
25°	492.7	492.3	469.6	450.9	440.1	437.7	444.6	459.3	484.3	535.8
27.5°	559.5	556.2	533.6	505.6	482.1	478.7	477.2	483.4	502.4	554.3
30°	634.9	631.8	607.5	570.9	538.4	532.8	518.5	515.3	529.3	579.5
32.5°	717.6	715.6	686.6	642.2	598.7	592.2	568.3	559.7	570.7	617.6
35°	787.0	785.2	761.1	715.4	662.2	654.3	629.9	620.2	625.8	666.5
37.5°	849.6	848.8	828.1	792.1	737.2	727.5	700.1	696.9	695.8	730.9
40°	907.8	905.7	884.1	865.2	824.4	815.6	791.5	788.7	780.5	810.2
42.5°	972.2	966.6	935.4	926.6	915.6	908.2	893.8	894.2	876.1	899.6
45°	1024.8	1021.6	989.5	984.3	996.1	993.1	1005.6	1008.8	973.7	993.3
47.5°	1081.2	1078.2	1051.1	1047.4	1079.5	1080.4	1124.5	1125.6	1069.0	1090.7
50°	1150.8	1146.5	1119.6	1124.1	1160.1	1163.3	1244.1	1236.8	1156.6	1189.6
52.5°	1196.7	1199.3	1193.5	1200.8	1249.9	1252.9	1361.7	1343.0	1243.4	1287.2
55°	1230.5	1235.7	1253.8	1270.6	1344.7	1347.7	1472.7	1444.0	1315.4	1377.7
57.5°	1274.0	1266.7	1300.5	1333.3	1434.7	1442.7	1580.6	1541.4	1379.2	1455.6
60°	1336.5	1331.3	1357.6	1406.1	1535.6	1548.3	1694.8	1629.1	1425.9	1517.5
62.5°	1463.2	1450.3	1454.3	1497.2	1662.7	1679.5	1823.6	1705.5	1449.2	1541.6
65°	1652.5	1630.4	1609.7	1639.4	1841.7	1858.3	1969.0	1765.6	1440.6	1494.8
67.5°	1891.0	1869.0	1843.6	1871.6	2105.4	2118.5	2148.5	1799.5	1372.7	1314.8
70°	2087.7	2079.5	2109.9	2225.1	2526.5	2527.0	2378.5	1771.5	1186.8	932.2
72.5°	2061.6	2056.7	2216.7	2573.1	3057.3	3045.9	2596.3	1559.5	799.5	420.5
75°	1691.3	1723.4	1971.4	2566.8	3248.0	3246.5	2463.0	991.4	330.7	174.3
77.5°	906.9	957.8	1279.9	1895.1	2535.6	2573.7	1731.6	346.8	142.0	111.6
80°	295.8	340.2	510.1	964.9	1647.6	1640.5	742.1	136.2	97.2	79.1
82.5°	125.6	130.8	227.9	455.6	845.6	832.4	236.3	78.2	68.3	54.1
85°	49.1	54.9	100.6	210.7	366.2	358.3	85.3	38.8	43.7	35.3
87.5°	16.2	19.6	36.0	72.2	114.0	109.9	20.9	13.4	19.0	16.2
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°
531.0	0°	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0
532.5	2.5°	535.6	539.0	543.1	549.1	554.3	558.6	563.1	565.9	567.0	570.2
533.4	5°	539.4	547.0	557.1	567.0	576.7	582.5	587.7	590.3	592.6	594.4
535.8	7.5°	545.9	555.6	571.5	584.5	592.6	597.4	600.8	600.0	600.8	601.3
538.4	10°	551.5	565.1	584.0	596.3	602.6	602.8	601.9	598.9	597.4	597.6
542.2	12.5°	558.2	573.3	593.7	604.1	605.8	601.0	597.4	592.2	590.3	589.4
548.0	15°	567.2	584.5	604.3	608.2	603.8	597.8	591.6	583.2	578.9	575.4
558.0	17.5°	578.2	597.2	612.5	609.7	600.4	590.5	580.4	567.7	558.8	555.2
571.5	20°	593.5	610.5	618.7	606.4	592.4	577.3	560.1	544.6	536.4	532.8
588.8	22.5°	612.0	628.4	624.7	600.8	581.0	556.9	535.3	523.9	519.8	517.2
611.0	25°	634.2	648.2	629.0	592.6	562.3	529.7	513.1	509.5	507.5	505.6
638.1	27.5°	663.1	670.6	632.3	580.6	533.0	500.9	494.8	495.5	494.8	491.6
675.8	30°	701.2	699.7	635.3	561.0	499.4	474.8	475.2	478.0	478.5	476.3
728.4	32.5°	751.4	736.1	636.8	535.6	467.3	452.0	452.4	455.4	457.6	453.9
797.1	35°	812.2	778.6	634.4	503.7	442.5	430.2	427.0	427.8	428.5	425.0
880.5	37.5°	883.0	826.2	623.9	468.3	422.0	408.9	402.0	396.2	392.7	389.5
974.8	40°	960.8	878.1	604.5	433.9	399.2	386.3	375.9	364.9	353.3	349.0
1074.8	42.5°	1042.2	931.5	581.0	400.9	372.9	362.3	351.4	335.4	318.0	309.1
1178.6	45°	1126.7	986.2	558.0	368.4	346.0	341.5	328.7	309.6	290.6	279.4
1282.7	47.5°	1209.4	1037.9	524.1	335.6	320.8	325.7	315.8	298.2	277.0	259.4
1385.8	50°	1288.5	1086.4	468.8	302.5	300.3	321.0	311.5	286.1	262.0	239.3
1487.1	52.5°	1366.9	1125.6	397.9	272.3	289.3	319.7	305.9	277.9	248.4	224.7
1582.3	55°	1433.5	1145.9	329.6	246.4	273.4	308.7	299.2	268.2	229.2	204.0
1647.6	57.5°	1471.4	1129.5	272.7	221.0	251.4	290.6	287.8	247.5	206.4	187.0
1660.3	60°	1455.0	1063.1	226.2	198.8	230.5	271.0	268.0	227.1	188.9	170.6
1592.2	62.5°	1364.7	936.7	189.4	179.5	211.5	251.0	248.2	211.3	175.6	157.9
1411.5	65°	1182.9	762.0	160.7	163.3	192.4	226.8	230.9	198.2	165.0	147.8
1092.0	67.5°	902.2	551.9	138.3	149.3	173.6	203.1	215.0	188.7	156.2	139.8
631.8	70°	514.2	313.4	119.3	135.7	157.0	181.2	202.7	181.2	146.7	133.1
236.8	72.5°	195.0	143.9	103.2	122.1	141.1	162.6	189.1	169.3	135.7	125.6
122.4	75°	104.1	87.7	86.8	106.2	122.8	144.6	172.1	157.7	127.5	132.7
84.7	77.5°	70.9	62.0	72.6	90.9	102.8	124.5	154.0	140.0	110.5	110.1
58.6	80°	49.1	43.9	59.0	73.2	79.5	104.7	134.4	120.2	90.0	84.0
36.2	82.5°	29.5	28.7	44.2	54.7	56.2	80.8	111.4	100.8	73.7	64.2
21.5	85°	16.2	17.0	28.2	32.1	32.7	56.4	87.2	78.0	56.7	47.6
7.8	87.5°	4.5	5.8	10.3	12.7	15.7	29.3	51.9	46.3	28.4	19.8
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>
531.0
570.0
594.8
601.9
598.0
589.0
576.5
555.4
532.3
517.7
505.6
492.3
477.4
455.6
427.4
391.6
350.9
310.2
278.5
257.4
237.4
222.1
201.9
184.4
168.0
155.1
145.0
137.2
131.4
123.9
137.0
101.5
80.4
64.6
48.0
19.8
0.0

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