

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: P938788

Luminaire Tested: **GALN-SB1A-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2954 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

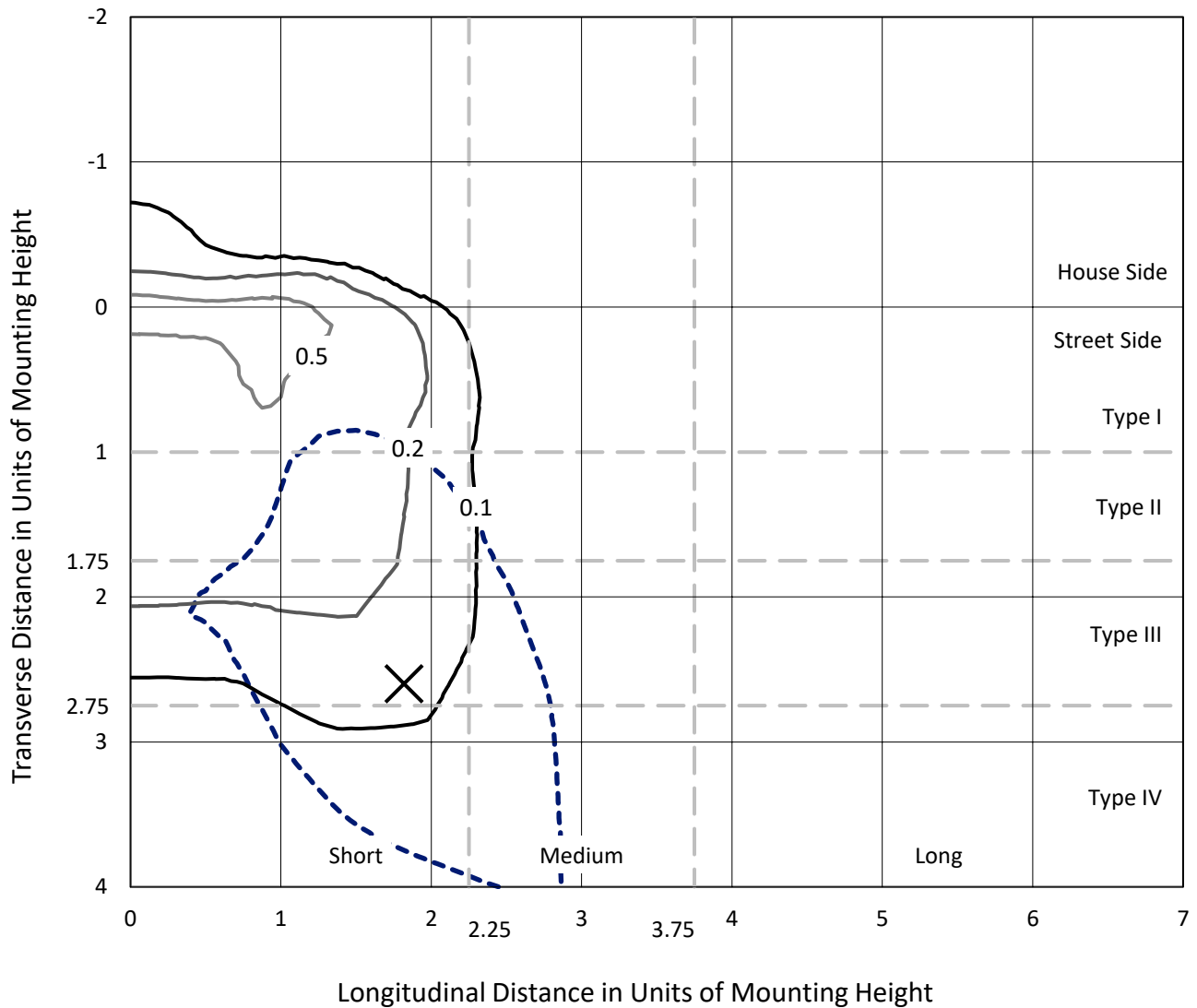
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

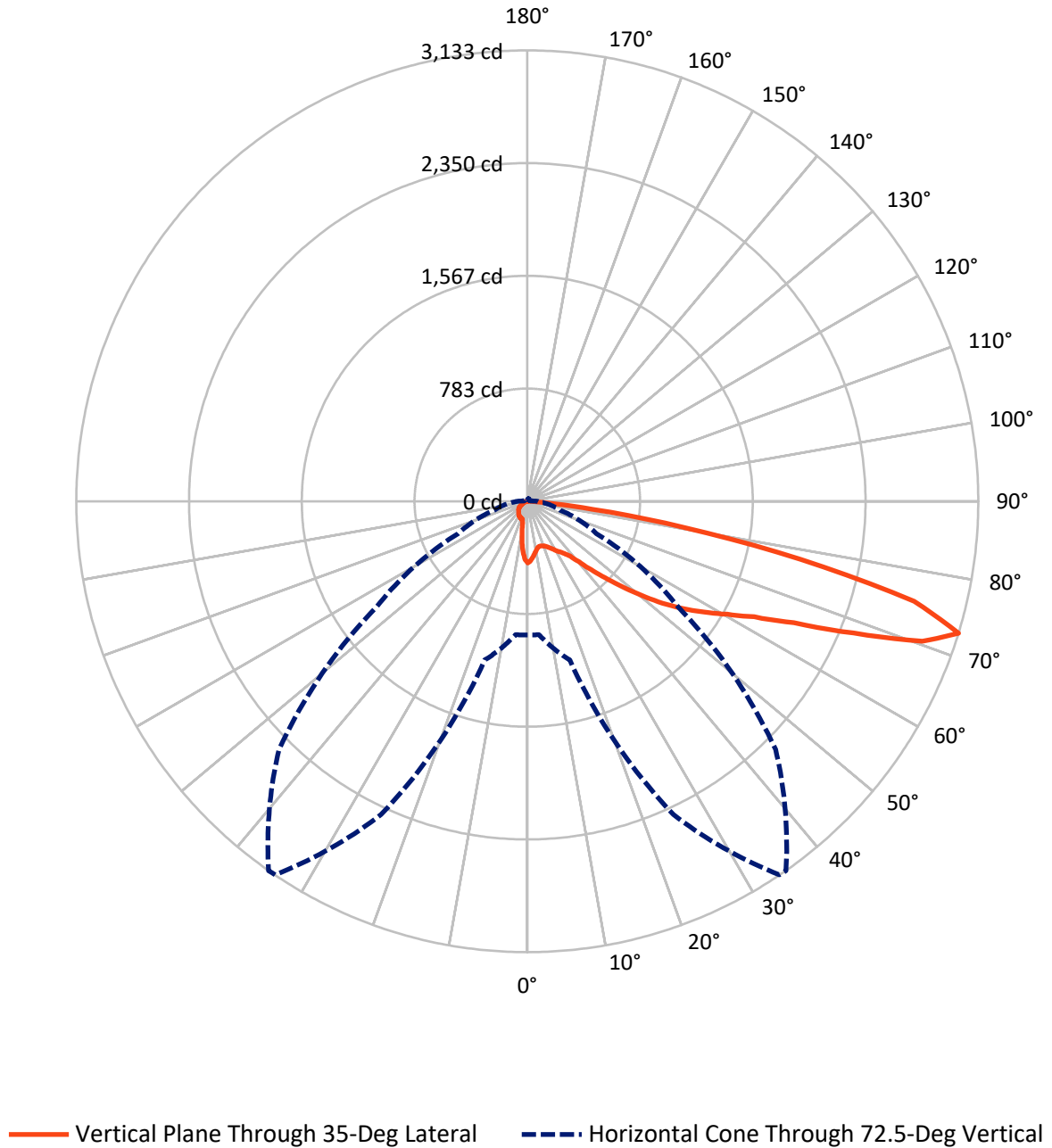
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	332.5	0.0	332.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	2621.5	0.0	2621.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	2954.0	0.0	2954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	1.2
10°-20°	82.3	2.8
20°-30°	133.7	4.5
30°-40°	223.1	7.6
40°-50°	422.1	14.3
50°-60°	670.6	22.7
60°-70°	829.6	28.1
70°-80°	515.7	17.5
80°-90°	41.7	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°	2954.0	100.0
0°-180°	2954.0	100.0

Coefficient of Utilization



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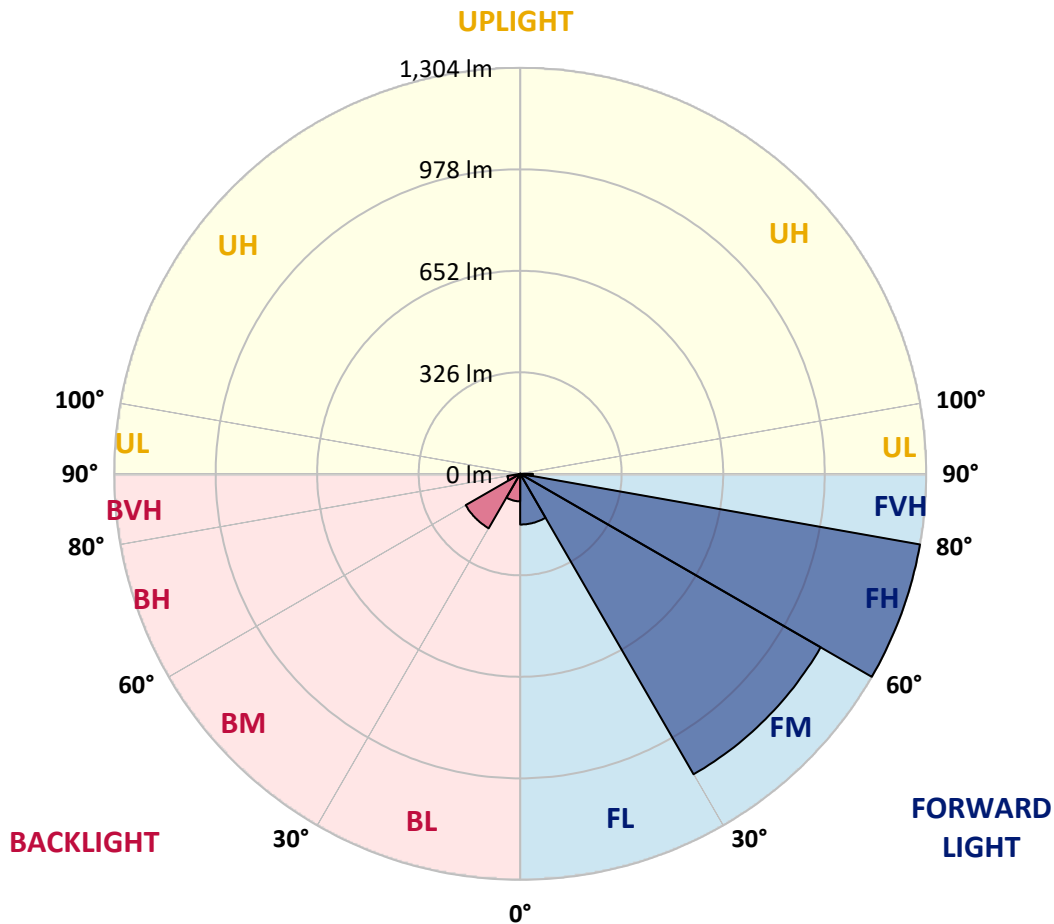
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	162.8	5.5			
FM (30°-60°)	1114.0	37.7			
FH (60°-80°)	1303.6	44.1			G1/1800
FVH (80°-90°)	41.1	1.4			G1/100
BL (0°-30°)	88.3	3.0	B0/110		
BM (30°-60°)	201.8	6.8	B0/220		
BH (60°-80°)	41.7	1.4	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1
2.5°	409.1	412.5	413.2	414.3	414.3	415.6	417.7	420.8	425.8	428.4
5°	377.1	379.6	382.9	385.5	390.5	391.1	399.6	407.8	419.3	427.9
7.5°	344.8	347.8	352.2	358.4	364.9	366.9	379.6	393.5	411.7	427.9
10°	322.1	322.3	326.2	332.5	342.9	345.2	360.8	380.5	403.2	425.3
12.5°	309.3	310.8	312.6	317.3	327.3	328.8	345.5	368.6	394.8	423.8
15°	309.3	310.4	311.5	313.8	321.9	323.2	337.9	361.0	390.5	424.5
17.5°	312.6	314.3	313.4	316.2	324.7	325.5	338.5	358.9	390.3	428.6
20°	320.3	321.6	319.9	321.6	330.1	331.8	345.2	363.0	393.9	435.7
22.5°	332.7	333.3	329.2	330.5	339.2	341.3	356.9	374.7	402.8	447.2
25°	348.3	349.6	343.3	344.8	353.0	355.6	373.6	392.2	416.9	463.0
27.5°	366.2	366.9	361.5	361.3	371.9	375.5	393.7	413.8	435.7	482.9
30°	386.8	388.7	383.5	382.7	396.1	399.1	417.1	440.5	463.4	512.8
32.5°	403.0	404.5	401.5	403.7	417.3	419.7	445.4	478.1	506.9	555.2
35°	426.4	427.3	420.3	424.2	439.8	445.9	484.2	530.9	561.7	608.4
37.5°	511.0	511.0	481.6	462.3	477.3	482.7	537.2	597.4	629.2	679.9
40°	628.1	626.2	583.1	543.7	541.8	552.4	612.8	681.2	716.4	765.6
42.5°	753.0	750.0	691.3	652.4	645.9	649.6	700.0	784.4	820.3	870.1
45°	863.8	863.0	809.3	756.9	745.2	756.9	808.9	905.2	930.9	983.3
47.5°	956.7	956.7	917.5	883.3	877.3	884.2	956.3	1039.2	1036.8	1103.9
50°	1063.6	1062.8	1025.5	1010.8	1017.1	1026.8	1126.0	1180.3	1146.3	1222.3
52.5°	1138.5	1143.7	1130.9	1128.6	1160.6	1177.5	1298.3	1318.4	1244.4	1334.6
55°	1197.8	1203.9	1218.6	1235.3	1297.0	1319.0	1465.1	1449.3	1326.4	1432.0
57.5°	1281.8	1273.1	1295.9	1328.8	1428.6	1455.2	1626.8	1572.9	1392.4	1511.0
60°	1383.8	1385.0	1388.9	1430.5	1559.9	1594.1	1786.1	1689.8	1434.8	1559.5
62.5°	1506.3	1508.2	1516.2	1580.1	1736.3	1768.6	1955.8	1785.5	1454.3	1545.9
65°	1497.8	1506.0	1595.4	1813.8	2004.5	2036.3	2153.9	1852.6	1424.9	1421.2
67.5°	1364.5	1377.9	1527.5	2093.0	2408.8	2444.3	2393.3	1865.8	1297.8	1105.2
70°	1189.6	1194.4	1374.2	2344.1	2877.0	2913.0	2607.5	1720.5	984.8	616.4
72.5°	929.0	930.1	1141.1	2402.4	3131.1	3133.1	2439.4	1277.3	529.6	236.8
75°	663.6	657.1	764.3	1948.2	2754.7	2776.8	1828.8	599.1	202.4	111.9
77.5°	355.8	363.0	432.5	1155.4	1903.0	1940.7	997.8	172.7	103.0	76.2
80°	110.0	116.0	177.3	529.0	1077.9	1100.6	369.9	76.8	71.9	54.3
82.5°	34.6	35.9	82.7	222.3	447.4	457.8	107.1	43.5	49.1	35.9
85°	10.0	10.2	36.8	82.9	110.6	112.8	30.1	16.9	28.1	22.3
87.5°	1.1	3.5	13.9	13.9	9.7	9.5	3.2	3.7	8.0	2.8
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°
428.1	0°	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1
430.1	2.5°	429.0	429.2	426.4	421.6	416.4	412.1	406.7	402.4	399.3	398.5
434.0	5°	432.0	430.5	422.5	408.0	390.7	375.8	359.1	345.9	337.2	333.5
438.1	7.5°	436.6	432.2	414.7	386.1	353.0	323.6	293.7	270.6	255.8	248.5
442.0	10°	440.5	431.8	401.7	354.5	303.9	259.3	219.0	191.1	175.5	168.2
446.5	12.5°	444.2	431.6	384.8	317.1	248.5	193.9	156.5	142.6	138.3	136.8
453.9	15°	451.1	432.2	363.6	274.2	193.3	146.5	132.9	132.7	133.5	133.1
465.1	17.5°	460.6	432.9	339.6	228.8	149.1	129.2	128.6	130.5	131.8	131.2
479.2	20°	472.9	435.5	314.1	183.8	128.1	124.9	126.4	128.1	129.2	128.1
498.0	22.5°	490.3	440.0	286.1	147.6	121.4	122.3	123.6	125.5	126.6	125.1
522.1	25°	511.5	447.2	258.7	128.4	118.2	119.3	121.2	123.4	124.7	123.2
552.4	27.5°	539.0	458.7	233.3	124.0	114.9	115.6	118.4	121.6	123.4	121.4
595.4	30°	578.8	477.5	211.5	126.0	113.0	111.5	115.4	119.9	121.9	120.1
654.1	32.5°	631.6	504.1	198.0	129.0	112.1	106.7	110.4	116.2	119.5	118.4
730.7	35°	700.9	544.6	192.9	132.5	111.5	101.7	104.3	110.6	116.2	117.3
827.3	37.5°	784.8	600.9	194.4	134.0	109.5	97.6	98.9	104.3	111.7	115.2
935.9	40°	880.3	666.4	203.0	132.5	107.4	94.2	94.4	98.5	105.0	110.2
1052.8	42.5°	978.8	743.1	219.0	126.8	105.4	91.1	90.5	93.3	97.6	101.3
1169.5	45°	1072.5	821.9	234.8	119.0	103.0	88.1	86.6	87.7	88.5	90.0
1283.1	47.5°	1154.3	877.3	230.3	111.9	99.8	84.6	82.0	81.6	79.0	78.8
1384.6	50°	1210.8	889.4	204.5	104.8	95.0	80.7	76.6	74.0	69.5	67.3
1460.6	52.5°	1228.8	841.5	167.1	97.6	87.2	75.5	69.7	65.6	60.0	58.0
1504.3	55°	1205.0	747.8	133.5	89.0	76.4	68.6	62.1	56.7	52.2	49.8
1509.1	57.5°	1146.7	628.6	105.6	78.8	64.9	60.8	54.3	48.9	45.0	42.6
1456.3	60°	1050.2	499.1	83.5	66.7	55.4	52.4	45.7	42.2	38.7	35.9
1319.9	62.5°	903.7	356.3	65.6	52.8	46.3	42.9	39.0	36.4	32.3	28.4
1074.7	65°	705.2	218.0	50.6	38.7	37.2	35.5	33.1	30.7	25.8	21.9
701.1	67.5°	444.8	103.2	36.1	29.2	29.4	28.6	27.5	25.5	21.9	18.4
314.1	70°	195.9	50.0	23.8	22.3	21.9	21.9	22.7	22.1	18.6	15.4
109.1	72.5°	66.7	26.8	17.7	16.9	15.8	15.6	19.0	18.4	14.9	11.9
54.3	75°	34.8	18.0	13.0	12.1	9.5	11.5	15.2	14.3	10.6	7.8
35.9	77.5°	22.7	12.8	8.9	7.8	5.4	7.6	11.3	10.0	6.3	3.9
23.6	80°	14.3	8.4	5.2	3.7	2.6	4.1	6.1	4.3	2.4	0.9
13.9	82.5°	7.6	4.3	1.9	1.3	1.1	1.3	1.5	1.1	0.4	0.0
7.1	85°	3.0	1.5	0.6	0.4	0.2	0.0	0.4	0.2	0.0	0.0
1.3	87.5°	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
428.1
400.0
334.8
249.6
168.4
136.4
132.9
131.0
127.9
124.9
122.9
121.4
119.9
118.4
117.3
116.0
111.9
102.8
90.9
78.6
67.5
57.8
49.8
42.2
35.3
27.7
21.2
18.0
14.7
11.3
7.1
3.5
0.6
0.0
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