

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: P939028

Luminaire Tested: **GALN-SB1B-935-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939028
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-SB1B-935-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 3500K, 450mA 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: 2967 lumens
Efficiency: N/A
Efficacy: 74.5 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

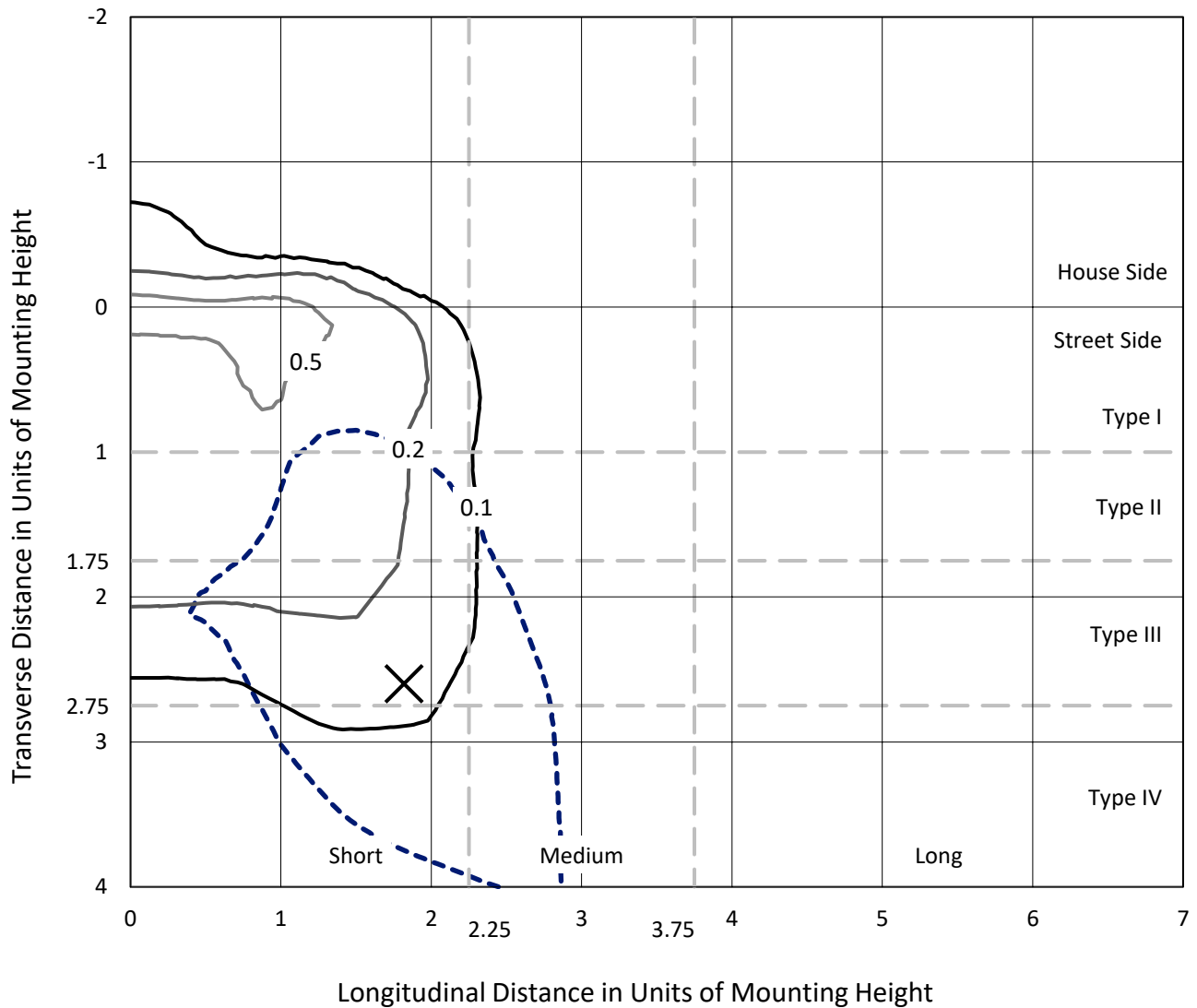
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939028
 CATALOG NUMBER: GALN-SB1B-935-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

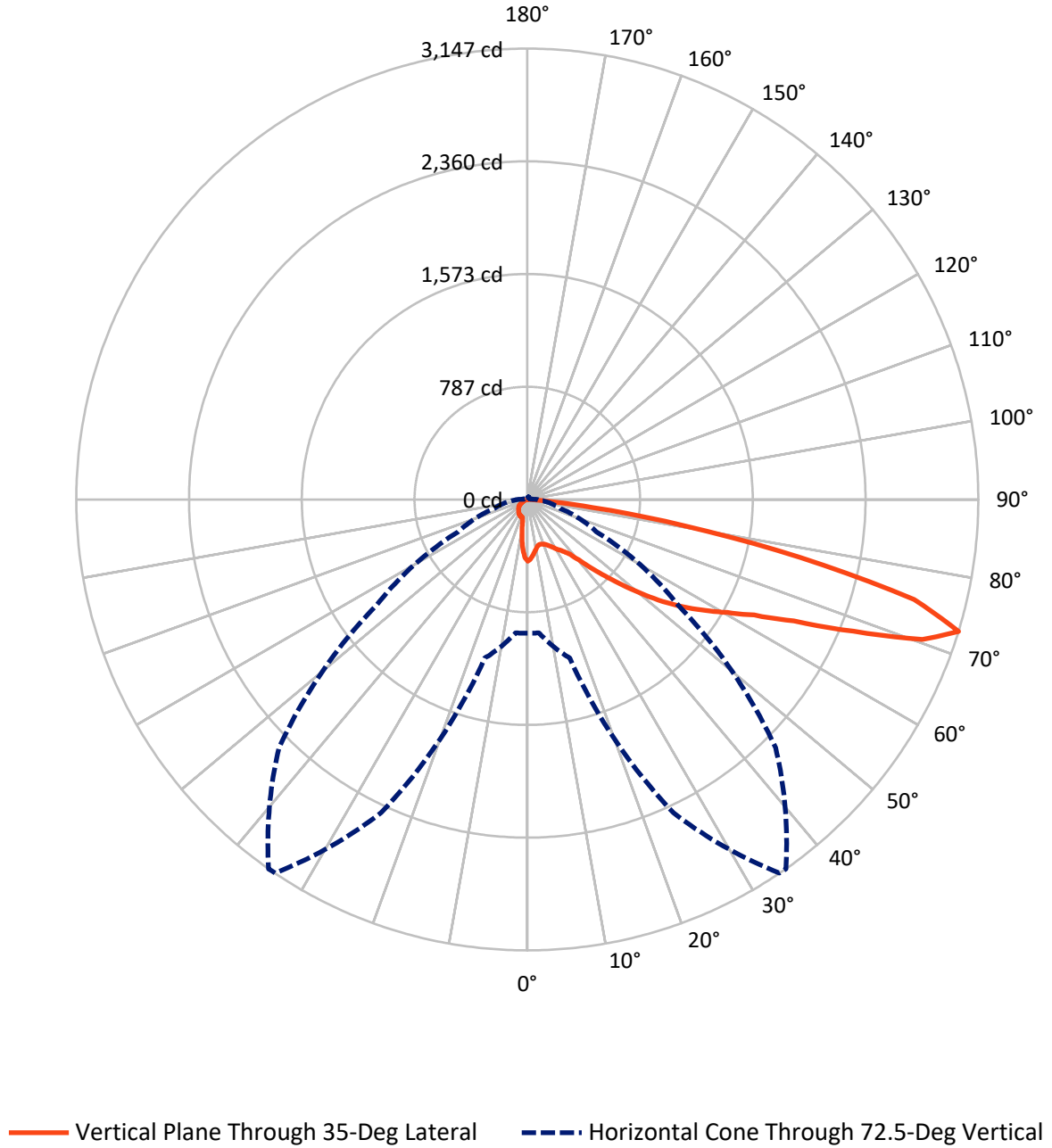
× Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: GALN-SB1B-935-U-T4FT-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	333.9	0.0	333.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	2633.1	0.0	2633.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	2967.0	0.0	2967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	1.2
10°-20°	82.7	2.8
20°-30°	134.3	4.5
30°-40°	224.1	7.6
40°-50°	423.9	14.3
50°-60°	673.6	22.7
60°-70°	833.3	28.1
70°-80°	518.0	17.5
80°-90°	41.9	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°	2967.0	100.0
0°-180°	2967.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939028

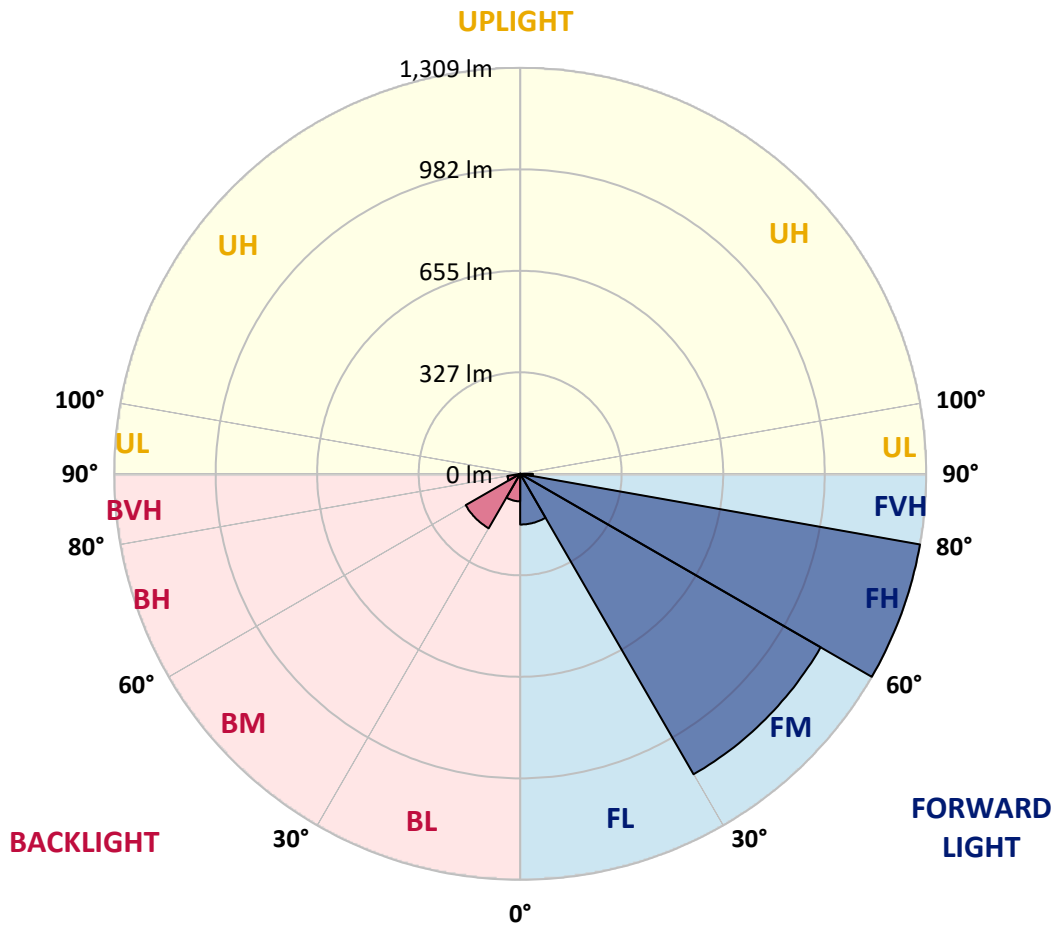
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	163.6	5.5			
FM (30°-60°)	1118.9	37.7			
FH (60°-80°)	1309.4	44.1			G1/1800
FVH (80°-90°)	41.3	1.4			G1/100
BL (0°-30°)	88.7	3.0	B0/110		
BM (30°-60°)	202.7	6.8	B0/220		
BH (60°-80°)	41.9	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



REPORT NUMBER: P939028

CATALOG NUMBER: GALN-SB1B-935-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0
2.5°	410.9	414.4	415.0	416.1	416.1	417.4	419.6	422.6	427.6	430.2
5°	378.7	381.3	384.6	387.2	392.2	392.8	401.3	409.6	421.1	429.8
7.5°	346.3	349.4	353.7	360.0	366.5	368.5	381.3	395.2	413.5	429.8
10°	323.5	323.7	327.6	333.9	344.4	346.8	362.4	382.2	405.0	427.2
12.5°	310.7	312.2	313.9	318.7	328.7	330.2	347.0	370.2	396.5	425.7
15°	310.7	311.8	312.8	315.2	323.3	324.6	339.4	362.6	392.2	426.3
17.5°	313.9	315.7	314.8	317.6	326.1	327.0	340.0	360.4	392.0	430.5
20°	321.8	323.1	321.3	323.1	331.5	333.3	346.8	364.6	395.7	437.6
22.5°	334.1	334.8	330.7	332.0	340.7	342.8	358.5	376.3	404.6	449.1
25°	349.8	351.1	344.8	346.3	354.6	357.2	375.2	393.9	418.7	465.0
27.5°	367.8	368.5	363.1	362.8	373.5	377.2	395.5	415.7	437.6	485.0
30°	388.5	390.5	385.2	384.4	397.8	400.9	418.9	442.4	465.5	515.0
32.5°	404.8	406.3	403.3	405.5	419.1	421.5	447.4	480.2	509.2	557.6
35°	428.3	429.1	422.2	426.1	441.8	447.8	486.3	533.3	564.2	611.1
37.5°	513.3	513.3	483.7	464.4	479.4	484.8	539.6	600.0	632.0	682.9
40°	630.9	628.9	585.7	546.1	544.2	554.8	615.5	684.2	719.6	768.9
42.5°	756.3	753.3	694.4	655.2	648.7	652.4	703.1	787.9	823.9	873.9
45°	867.6	866.8	812.9	760.2	748.5	760.2	812.4	909.2	935.0	987.6
47.5°	960.9	960.9	921.6	887.2	881.1	888.1	960.5	1043.7	1041.3	1108.7
50°	1068.3	1067.4	1030.0	1015.3	1021.6	1031.3	1130.9	1185.5	1151.4	1227.7
52.5°	1143.5	1148.7	1135.9	1133.5	1165.7	1182.7	1304.0	1324.2	1249.8	1340.5
55°	1203.1	1209.2	1224.0	1240.7	1302.7	1324.8	1471.6	1455.7	1332.2	1438.3
57.5°	1287.4	1278.7	1301.6	1334.6	1434.8	1461.6	1634.0	1579.8	1398.5	1517.7
60°	1389.8	1391.1	1395.1	1436.8	1566.8	1601.2	1794.0	1697.2	1441.1	1566.4
62.5°	1512.9	1514.8	1522.9	1587.0	1744.0	1776.4	1964.4	1793.3	1460.7	1552.7
65°	1504.4	1512.7	1602.5	1821.8	2013.3	2045.3	2163.4	1860.7	1431.1	1427.5
67.5°	1370.5	1384.0	1534.2	2102.3	2419.4	2455.1	2403.8	1874.0	1303.5	1110.0
70°	1194.8	1199.6	1380.3	2354.4	2889.7	2925.8	2619.0	1728.1	989.2	619.2
72.5°	933.1	934.2	1146.1	2412.9	3144.9	3146.9	2450.1	1282.9	532.0	237.8
75°	666.5	660.0	767.6	1956.8	2766.9	2789.0	1836.8	601.8	203.3	112.4
77.5°	357.4	364.6	434.4	1160.5	1911.4	1949.2	1002.2	173.5	103.5	76.5
80°	110.4	116.5	178.1	531.3	1082.7	1105.5	371.5	77.2	72.2	54.6
82.5°	34.8	36.1	83.0	223.3	449.4	459.8	107.6	43.7	49.3	36.1
85°	10.0	10.2	37.0	83.3	111.1	113.3	30.2	17.0	28.3	22.4
87.5°	1.1	3.5	13.9	13.9	9.8	9.6	3.3	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

REPORT NUMBER: P939028
 CATALOG NUMBER: GALN-SB1B-935-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
430.0	0°	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0
432.0	2.5°	430.9	431.1	428.3	423.5	418.3	413.9	408.5	404.1	401.1	400.2
435.9	5°	433.9	432.4	424.4	409.8	392.4	377.4	360.7	347.4	338.7	335.0
440.0	7.5°	438.5	434.1	416.5	387.8	354.6	325.0	295.0	271.8	257.0	249.6
443.9	10°	442.4	433.7	403.5	356.1	305.2	260.4	220.0	192.0	176.3	168.9
448.5	12.5°	446.1	433.5	386.5	318.5	249.6	194.8	157.2	143.3	138.9	137.4
455.9	15°	453.1	434.1	365.2	275.4	194.1	147.2	133.5	133.3	134.1	133.7
467.2	17.5°	462.6	434.8	341.1	229.8	149.8	129.8	129.1	131.1	132.4	131.7
481.3	20°	475.0	437.4	315.4	184.6	128.7	125.4	127.0	128.7	129.8	128.7
500.2	22.5°	492.4	442.0	287.4	148.3	122.0	122.8	124.1	126.1	127.2	125.7
524.4	25°	513.7	449.1	259.8	128.9	118.7	119.8	121.7	123.9	125.2	123.7
554.8	27.5°	541.3	460.7	234.4	124.6	115.4	116.1	118.9	122.2	123.9	122.0
598.1	30°	581.3	479.6	212.4	126.5	113.5	112.0	115.9	120.4	122.4	120.7
657.0	32.5°	634.4	506.3	198.9	129.6	112.6	107.2	110.9	116.7	120.0	118.9
733.9	35°	703.9	547.0	193.7	133.0	112.0	102.2	104.8	111.1	116.7	117.8
830.9	37.5°	788.3	603.5	195.2	134.6	110.0	98.0	99.4	104.8	112.2	115.7
940.0	40°	884.2	669.4	203.9	133.0	107.8	94.6	94.8	98.9	105.4	110.7
1057.4	42.5°	983.1	746.3	220.0	127.4	105.9	91.5	90.9	93.7	98.0	101.7
1174.6	45°	1077.2	825.5	235.9	119.6	103.5	88.5	87.0	88.0	88.9	90.4
1288.7	47.5°	1159.4	881.1	231.3	112.4	100.2	85.0	82.4	82.0	79.4	79.1
1390.7	50°	1216.1	893.3	205.4	105.2	95.4	81.1	77.0	74.4	69.8	67.6
1467.0	52.5°	1234.2	845.3	167.8	98.0	87.6	75.9	70.0	65.9	60.2	58.3
1510.9	55°	1210.3	751.1	134.1	89.4	76.7	68.9	62.4	57.0	52.4	50.0
1515.7	57.5°	1151.8	631.3	106.1	79.1	65.2	61.1	54.6	49.1	45.2	42.8
1462.7	60°	1054.8	501.3	83.9	67.0	55.7	52.6	45.9	42.4	38.9	36.1
1325.7	62.5°	907.6	357.8	65.9	53.0	46.5	43.0	39.1	36.5	32.4	28.5
1079.4	65°	708.3	218.9	50.9	38.9	37.4	35.7	33.3	30.9	25.9	22.0
704.2	67.5°	446.8	103.7	36.3	29.3	29.6	28.7	27.6	25.7	22.0	18.5
315.4	70°	196.7	50.2	23.9	22.4	22.0	22.0	22.8	22.2	18.7	15.4
109.6	72.5°	67.0	27.0	17.8	17.0	15.9	15.7	19.1	18.5	15.0	12.0
54.6	75°	35.0	18.0	13.0	12.2	9.6	11.5	15.2	14.3	10.7	7.8
36.1	77.5°	22.8	12.8	8.9	7.8	5.4	7.6	11.3	10.0	6.3	3.9
23.7	80°	14.3	8.5	5.2	3.7	2.6	4.1	6.1	4.3	2.4	0.9
13.9	82.5°	7.6	4.3	2.0	1.3	1.1	1.3	1.5	1.1	0.4	0.0
7.2	85°	3.0	1.5	0.7	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>
430.0
401.8
336.3
250.7
169.1
137.0
133.5
131.5
128.5
125.4
123.5
122.0
120.4
118.9
117.8
116.5
112.4
103.3
91.3
78.9
67.8
58.0
50.0
42.4
35.4
27.8
21.3
18.0
14.8
11.3
7.2
3.5
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