

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: P939008

Luminaire Tested: **GALN-SB1B-927-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939008  
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-927-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

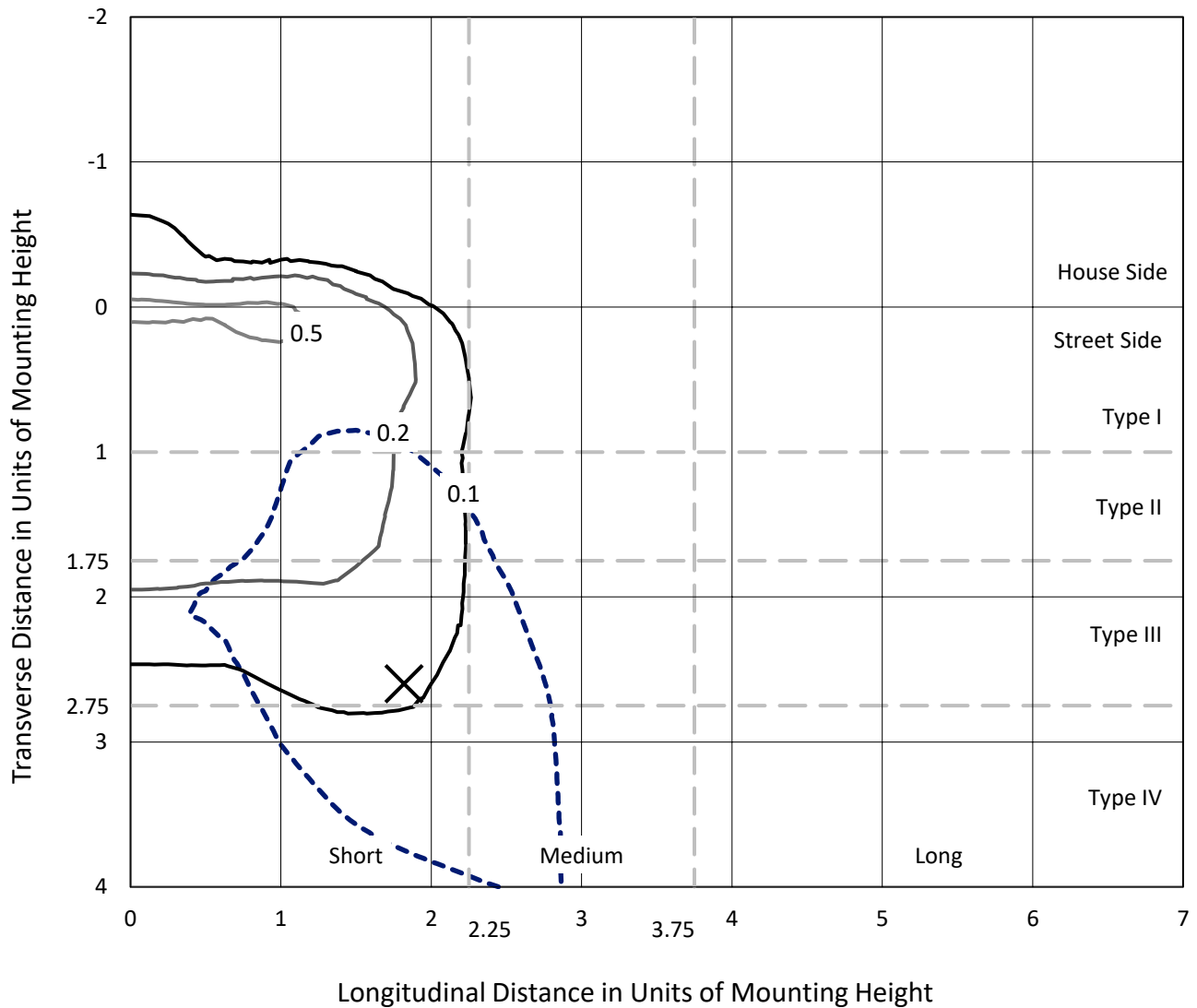
Lumens per Lamp: N/A  
Luminaire Lumens: 2596 lumens  
Efficiency: N/A  
Efficacy: 65.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

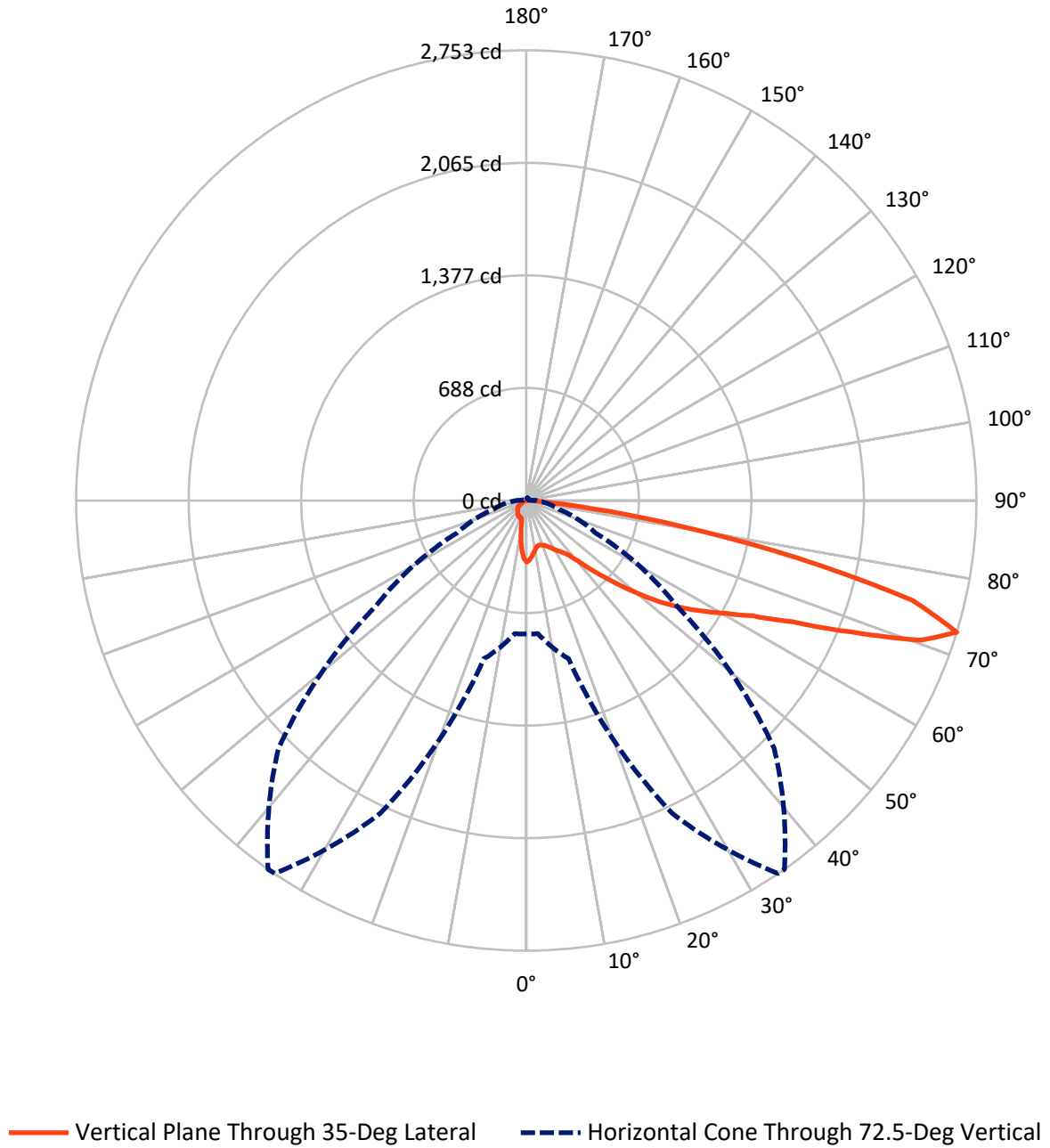
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	292.2	0.0	292.2
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	2303.8	0.0	2303.8
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	2596.0	0.0	2596.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.9	1.2
10°-20°	72.3	2.8
20°-30°	117.5	4.5
30°-40°	196.0	7.6
40°-50°	370.9	14.3
50°-60°	589.4	22.7
60°-70°	729.1	28.1
70°-80°	453.2	17.5
80°-90°	36.6	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°	2596.0	100.0
0°-180°	2596.0	100.0

**Coefficient of Utilization**



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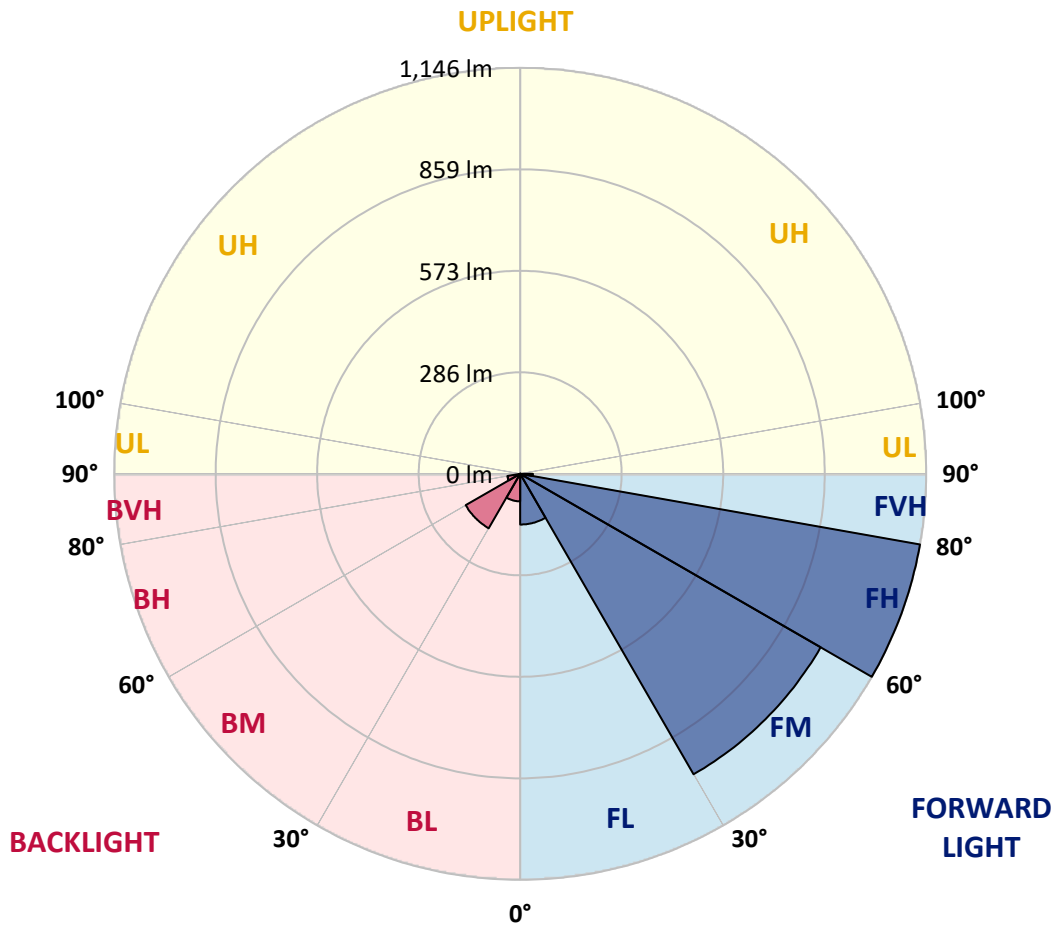
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	143.1	5.5			
FM (30°-60°)	979.0	37.7			
FH (60°-80°)	1145.6	44.1			G1/1800
FVH (80°-90°)	36.1	1.4			G1/100
BL (0°-30°)	77.6	3.0	B0/110		
BM (30°-60°)	177.4	6.8	B0/220		
BH (60°-80°)	36.7	1.4	B0/110		G0/110
BVH (80°-90°)	0.5	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°	376.2	376.2	376.2	376.2	376.2	376.2	376.2	376.2	376.2	376.2
2.5°	359.5	362.6	363.1	364.1	364.1	365.2	367.1	369.8	374.2	376.4
5°	331.4	333.6	336.5	338.8	343.1	343.7	351.1	358.4	368.4	376.1
7.5°	303.0	305.7	309.5	315.0	320.7	322.4	333.6	345.8	361.8	376.1
10°	283.0	283.2	286.7	292.2	301.3	303.4	317.1	334.4	354.4	373.8
12.5°	271.8	273.2	274.7	278.9	287.6	288.9	303.6	323.9	347.0	372.4
15°	271.8	272.8	273.7	275.8	282.9	284.0	296.9	317.3	343.1	373.0
17.5°	274.7	276.2	275.4	277.9	285.3	286.1	297.5	315.4	343.0	376.6
20°	281.5	282.7	281.1	282.7	290.1	291.6	303.4	319.0	346.2	382.9
22.5°	292.4	292.9	289.3	290.5	298.1	300.0	313.7	329.3	354.0	393.0
25°	306.1	307.2	301.7	303.0	310.2	312.5	328.3	344.7	366.4	406.9
27.5°	321.8	322.4	317.7	317.5	326.8	330.0	346.0	363.7	382.9	424.4
30°	339.9	341.6	337.1	336.3	348.1	350.8	366.5	387.1	407.3	450.6
32.5°	354.2	355.5	352.9	354.8	366.7	368.8	391.5	420.2	445.5	487.9
35°	374.7	375.5	369.4	372.8	386.5	391.8	425.5	466.6	493.6	534.7
37.5°	449.1	449.1	423.2	406.3	419.4	424.2	472.1	525.0	553.0	597.5
40°	552.0	550.3	512.4	477.8	476.1	485.4	538.5	598.6	629.6	672.8
42.5°	661.8	659.1	607.6	573.3	567.6	570.8	615.2	689.3	720.9	764.7
45°	759.2	758.4	711.2	665.2	654.9	665.2	710.8	795.5	818.1	864.2
47.5°	840.8	840.8	806.3	776.3	770.9	777.0	840.4	913.2	911.1	970.1
50°	934.7	934.0	901.2	888.3	893.8	902.4	989.5	1037.2	1007.4	1074.2
52.5°	1000.5	1005.1	993.9	991.8	1019.9	1034.8	1140.9	1158.6	1093.6	1172.9
55°	1052.7	1058.0	1070.9	1085.6	1139.8	1159.2	1287.6	1273.7	1165.6	1258.5
57.5°	1126.5	1118.9	1138.8	1167.7	1255.4	1278.8	1429.7	1382.3	1223.7	1327.9
60°	1216.1	1217.2	1220.6	1257.1	1370.9	1400.9	1569.7	1485.0	1260.9	1370.5
62.5°	1323.7	1325.4	1332.5	1388.6	1525.9	1554.3	1718.8	1569.1	1278.1	1358.5
65°	1316.3	1323.5	1402.1	1594.0	1761.6	1789.6	1892.8	1628.1	1252.2	1249.0
67.5°	1199.1	1210.9	1342.4	1839.4	2116.9	2148.1	2103.2	1639.7	1140.5	971.2
70°	1045.4	1049.6	1207.7	2060.0	2528.4	2559.9	2291.5	1512.0	865.5	541.7
72.5°	816.4	817.4	1002.8	2111.2	2751.7	2753.4	2143.7	1122.5	465.5	208.1
75°	583.2	577.5	671.7	1712.1	2420.9	2440.3	1607.1	526.5	177.9	98.3
77.5°	312.7	319.0	380.1	1015.4	1672.4	1705.5	876.9	151.8	90.5	67.0
80°	96.6	102.0	155.8	464.9	947.3	967.2	325.1	67.5	63.2	47.7
82.5°	30.4	31.6	72.7	195.4	393.2	402.3	94.2	38.2	43.2	31.6
85°	8.7	8.9	32.3	72.9	97.2	99.1	26.4	14.8	24.7	19.6
87.5°	1.0	3.0	12.2	12.2	8.6	8.4	2.9	3.2	7.0	2.5
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°
376.2	0°	376.2	376.2	376.2	376.2	376.2	376.2	376.2	376.2	376.2	376.2
378.0	2.5°	377.0	377.2	374.7	370.5	366.0	362.2	357.4	353.6	350.9	350.2
381.4	5°	379.7	378.3	371.3	358.6	343.3	330.2	315.6	304.0	296.4	293.1
385.0	7.5°	383.7	379.9	364.5	339.3	310.2	284.4	258.1	237.8	224.8	218.4
388.4	10°	387.1	379.5	353.0	311.6	267.1	227.9	192.5	168.0	154.3	147.8
392.4	12.5°	390.3	379.3	338.2	278.7	218.4	170.4	137.5	125.4	121.5	120.2
398.9	15°	396.4	379.9	319.6	241.0	169.9	128.8	116.8	116.6	117.4	117.0
408.8	17.5°	404.8	380.4	298.4	201.1	131.1	113.6	113.0	114.7	115.8	115.3
421.1	20°	415.6	382.7	276.0	161.5	112.6	109.8	111.1	112.6	113.6	112.6
437.7	22.5°	430.8	386.7	251.5	129.7	106.7	107.5	108.6	110.3	111.3	109.9
458.8	25°	449.5	393.0	227.3	112.8	103.9	104.8	106.5	108.4	109.6	108.2
485.4	27.5°	473.6	403.1	205.1	109.0	101.0	101.6	104.0	106.9	108.4	106.7
523.3	30°	508.6	419.6	185.8	110.7	99.3	98.0	101.4	105.4	107.1	105.6
574.8	32.5°	555.1	443.0	174.0	113.4	98.5	93.8	97.0	102.1	105.0	104.0
642.2	35°	615.9	478.6	169.5	116.4	98.0	89.4	91.7	97.2	102.1	103.1
727.0	37.5°	689.7	528.0	170.8	117.7	96.2	85.8	86.9	91.7	98.2	101.2
822.5	40°	773.6	585.7	178.4	116.4	94.3	82.7	82.9	86.5	92.3	96.8
925.2	42.5°	860.2	653.0	192.5	111.5	92.6	80.1	79.5	82.0	85.8	89.0
1027.7	45°	942.5	722.3	206.4	104.6	90.5	77.4	76.1	77.0	77.8	79.1
1127.6	47.5°	1014.4	770.9	202.4	98.3	87.7	74.4	72.1	71.7	69.4	69.2
1216.8	50°	1064.1	781.6	179.8	92.1	83.5	71.0	67.3	65.1	61.1	59.2
1283.6	52.5°	1079.9	739.6	146.8	85.8	76.7	66.4	61.2	57.6	52.7	51.0
1322.0	55°	1058.9	657.2	117.4	78.2	67.1	60.3	54.6	49.8	45.8	43.7
1326.2	57.5°	1007.8	552.4	92.8	69.2	57.1	53.5	47.7	43.0	39.6	37.5
1279.8	60°	922.9	438.6	73.4	58.6	48.7	46.0	40.1	37.1	34.0	31.6
1159.9	62.5°	794.2	313.1	57.6	46.4	40.7	37.7	34.2	32.0	28.3	24.9
944.4	65°	619.7	191.5	44.5	34.0	32.7	31.2	29.1	27.0	22.6	19.2
616.1	67.5°	390.9	90.7	31.8	25.7	25.9	25.1	24.2	22.4	19.2	16.2
276.0	70°	172.1	43.9	20.9	19.6	19.2	19.2	20.0	19.4	16.4	13.5
95.9	72.5°	58.6	23.6	15.6	14.8	13.9	13.7	16.7	16.2	13.1	10.5
47.7	75°	30.6	15.8	11.4	10.7	8.4	10.1	13.3	12.6	9.3	6.8
31.6	77.5°	20.0	11.2	7.8	6.8	4.8	6.7	9.9	8.7	5.5	3.4
20.7	80°	12.6	7.4	4.6	3.2	2.3	3.6	5.3	3.8	2.1	0.8
12.2	82.5°	6.7	3.8	1.7	1.1	1.0	1.1	1.3	1.0	0.4	0.0
6.3	85°	2.7	1.3	0.6	0.4	0.2	0.0	0.4	0.2	0.0	0.0
1.1	87.5°	1.0	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>
376.2
351.5
294.3
219.3
148.0
119.8
116.8
115.1
112.4
109.8
108.0
106.7
105.4
104.0
103.1
102.0
98.3
90.4
79.9
69.0
59.3
50.8
43.7
37.1
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