

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: P939038

Luminaire Tested: **GALN-SB1B-940-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939038  
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-940-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

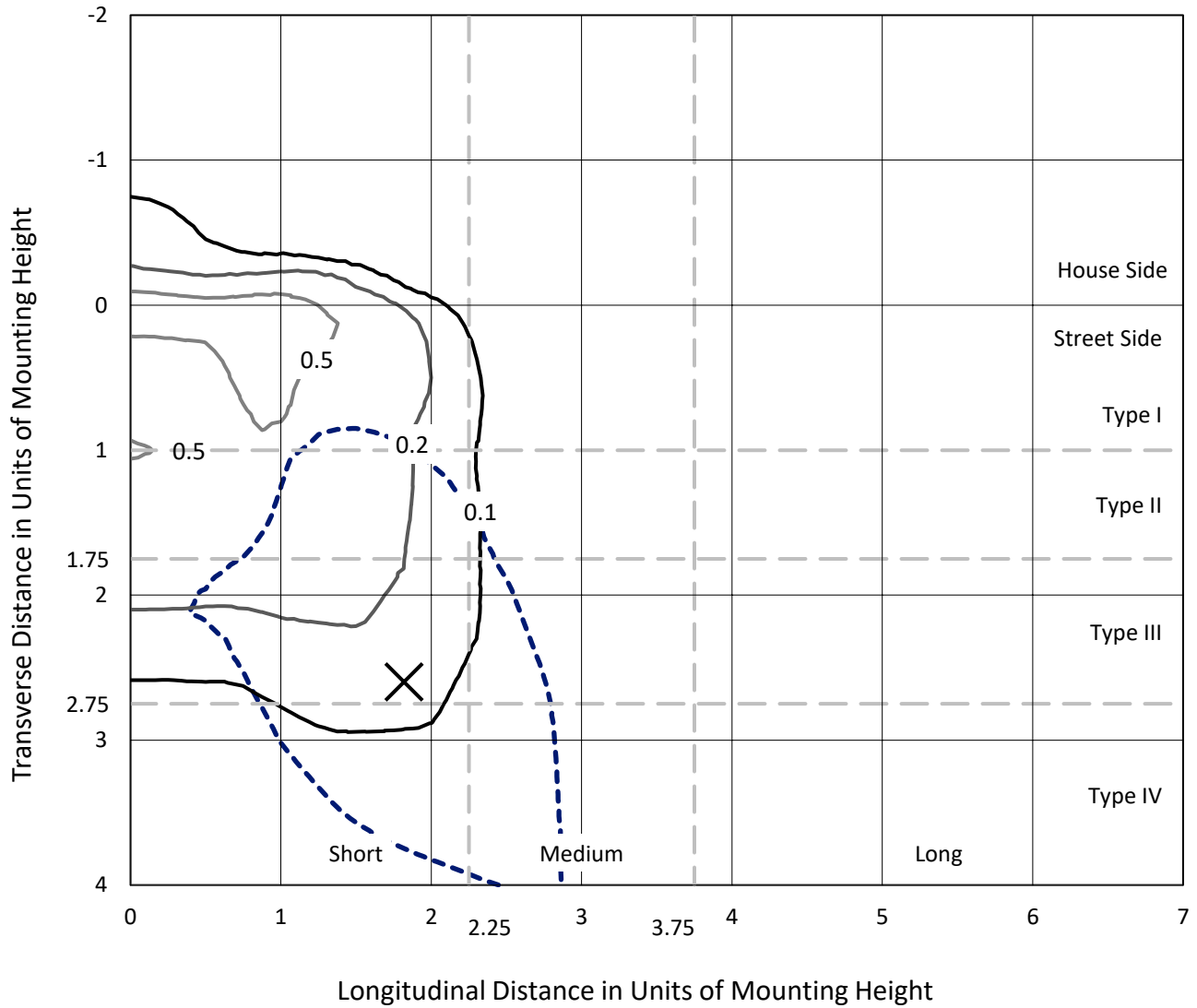
Lumens per Lamp: N/A  
Luminaire Lumens: 3091 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

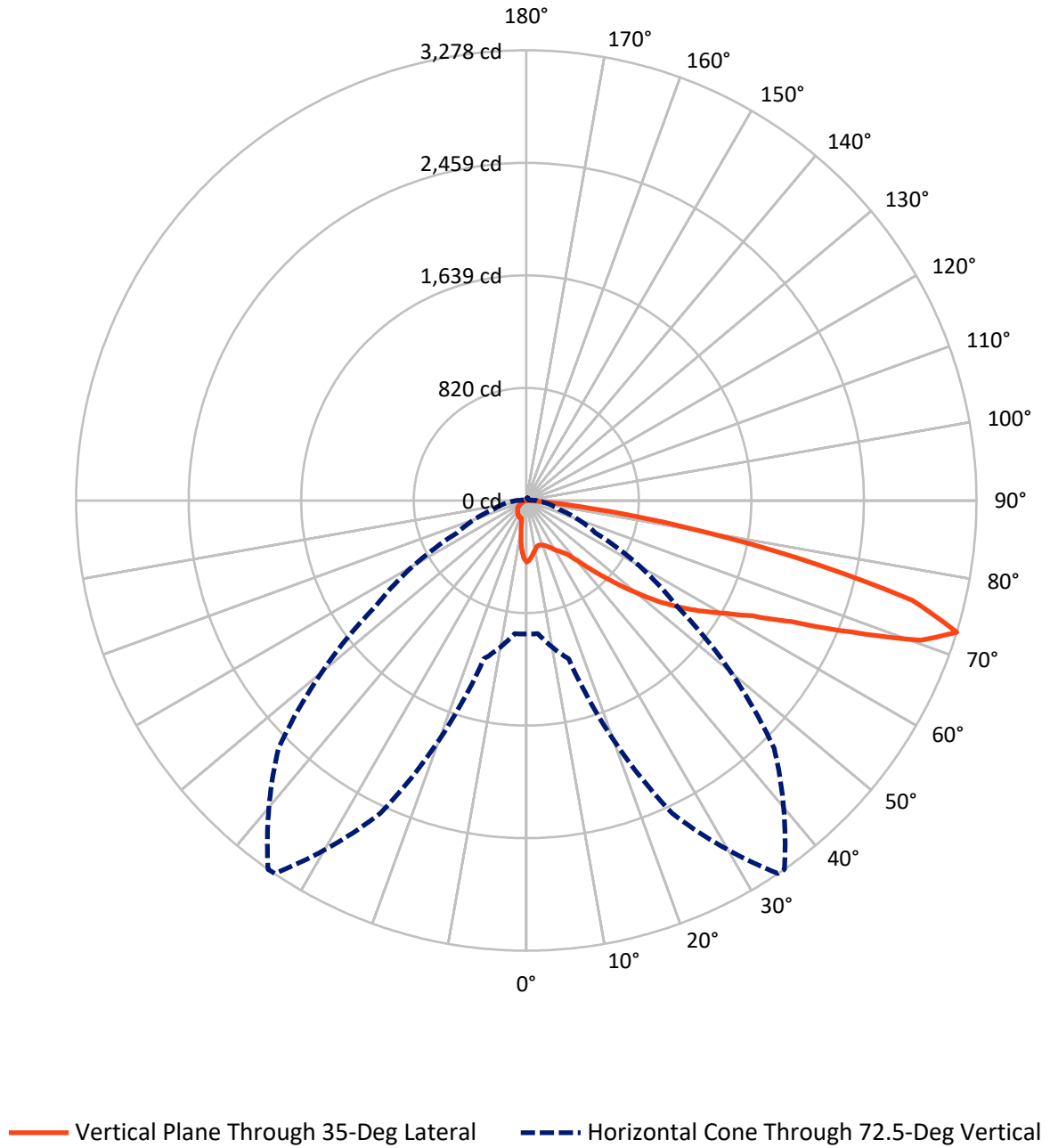
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	347.9	0.0	347.9
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	2743.1	0.0	2743.1
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	3091.0	0.0	3091.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.8	1.2
10°-20°	86.1	2.8
20°-30°	139.9	4.5
30°-40°	233.4	7.6
40°-50°	441.6	14.3
50°-60°	701.8	22.7
60°-70°	868.1	28.1
70°-80°	539.6	17.5
80°-90°	43.6	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°	3091.0	100.0
0°-180°	3091.0	100.0

**Coefficient of Utilization**



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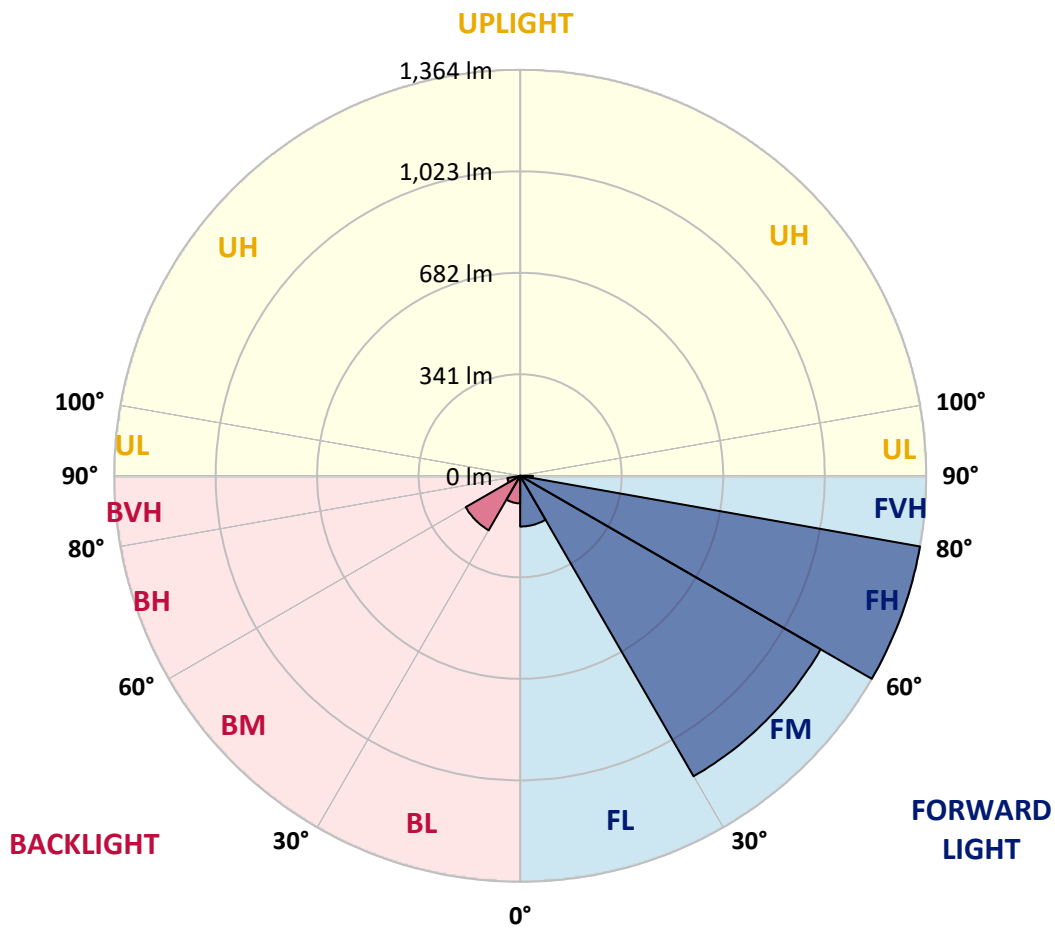
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	170.4	5.5			
FM (30°-60°)	1165.6	37.7			
FH (60°-80°)	1364.1	44.1			G1/1800
FVH (80°-90°)	43.0	1.4			G1/100
BL (0°-30°)	92.4	3.0	B0/110		
BM (30°-60°)	211.2	6.8	B0/220		
BH (60°-80°)	43.7	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°	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0
2.5°	428.1	431.7	432.4	433.5	433.5	434.9	437.1	440.3	445.5	448.2
5°	394.5	397.3	400.7	403.4	408.6	409.3	418.1	426.7	438.7	447.8
7.5°	360.8	364.0	368.5	375.1	381.9	383.9	397.3	411.8	430.8	447.8
10°	337.0	337.2	341.3	347.9	358.8	361.2	377.6	398.2	421.9	445.0
12.5°	323.6	325.2	327.0	332.0	342.4	344.0	361.5	385.7	413.1	443.5
15°	323.6	324.8	325.9	328.4	336.8	338.1	353.5	377.8	408.6	444.1
17.5°	327.0	328.9	328.0	330.9	339.7	340.6	354.2	375.5	408.4	448.4
20°	335.2	336.6	334.7	336.6	345.4	347.2	361.2	379.8	412.2	455.9
22.5°	348.1	348.8	344.5	345.8	354.9	357.2	373.5	392.0	421.5	467.9
25°	364.4	365.8	359.2	360.8	369.4	372.1	390.9	410.4	436.2	484.5
27.5°	383.2	383.9	378.2	378.0	389.1	393.0	412.0	433.0	455.9	505.3
30°	404.7	406.8	401.3	400.4	414.5	417.6	436.4	460.9	484.9	536.5
32.5°	421.7	423.3	420.1	422.4	436.7	439.2	466.1	500.3	530.4	580.9
35°	446.2	447.1	439.8	443.9	460.2	466.6	506.6	555.6	587.7	636.7
37.5°	534.7	534.7	503.9	483.8	499.4	505.1	562.1	625.1	658.4	711.4
40°	657.3	655.2	610.2	568.9	566.9	578.0	641.2	712.8	749.7	801.1
42.5°	787.9	784.8	723.4	682.6	675.8	679.7	732.5	820.8	858.4	910.5
45°	903.9	903.0	846.8	792.0	779.8	792.0	846.4	947.2	974.1	1028.9
47.5°	1001.1	1001.1	960.1	924.3	917.9	925.2	1000.6	1087.4	1084.9	1155.1
50°	1113.0	1112.0	1073.1	1057.7	1064.3	1074.5	1178.2	1235.0	1199.5	1279.0
52.5°	1191.3	1196.8	1183.4	1180.9	1214.4	1232.1	1358.5	1379.5	1302.1	1396.5
55°	1253.4	1259.7	1275.1	1292.6	1357.1	1380.2	1533.1	1516.6	1387.9	1498.4
57.5°	1341.3	1332.2	1356.0	1390.4	1494.8	1522.7	1702.3	1645.9	1457.0	1581.1
60°	1447.9	1449.3	1453.4	1496.8	1632.3	1668.1	1869.0	1768.2	1501.4	1631.8
62.5°	1576.1	1578.2	1586.5	1653.3	1816.9	1850.6	2046.5	1868.3	1521.8	1617.6
65°	1567.3	1575.9	1669.4	1898.0	2097.5	2130.8	2253.8	1938.5	1491.0	1487.1
67.5°	1427.8	1441.8	1598.3	2190.1	2520.6	2557.7	2504.3	1952.3	1358.0	1156.4
70°	1244.8	1249.8	1438.0	2452.8	3010.5	3048.1	2728.5	1800.3	1030.5	645.0
72.5°	972.1	973.2	1194.0	2513.8	3276.3	3278.4	2552.5	1336.5	554.2	247.8
75°	694.4	687.6	799.7	2038.6	2882.5	2905.6	1913.6	626.9	211.8	117.1
77.5°	372.3	379.8	452.5	1209.0	1991.3	2030.7	1044.1	180.7	107.8	79.7
80°	115.1	121.4	185.5	553.5	1127.9	1151.7	387.1	80.4	75.2	56.8
82.5°	36.2	37.6	86.5	232.6	468.1	479.0	112.1	45.5	51.4	37.6
85°	10.4	10.6	38.5	86.7	115.7	118.0	31.5	17.7	29.4	23.3
87.5°	1.1	3.6	14.5	14.5	10.2	10.0	3.4	3.9	8.4	2.9
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°
448.0	0°	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0
450.0	2.5°	448.9	449.1	446.2	441.2	435.8	431.2	425.6	421.0	417.9	417.0
454.1	5°	452.1	450.5	442.1	426.9	408.8	393.2	375.7	361.9	352.9	349.0
458.4	7.5°	456.8	452.3	433.9	404.1	369.4	338.6	307.3	283.1	267.7	260.0
462.5	10°	460.9	451.8	420.4	371.0	318.0	271.3	229.2	200.0	183.7	176.0
467.2	12.5°	464.7	451.6	402.7	331.8	260.0	202.9	163.7	149.3	144.7	143.1
474.9	15°	472.0	452.3	380.5	287.0	202.3	153.3	139.1	138.8	139.7	139.3
486.7	17.5°	482.0	453.0	355.4	239.4	156.0	135.2	134.5	136.6	137.9	137.3
501.4	20°	494.9	455.7	328.6	192.3	134.1	130.7	132.3	134.1	135.2	134.1
521.1	22.5°	513.0	460.4	299.4	154.5	127.1	128.0	129.3	131.4	132.5	130.9
546.3	25°	535.2	467.9	270.7	134.3	123.7	124.8	126.8	129.1	130.5	128.9
578.0	27.5°	564.0	479.9	244.2	129.8	120.3	120.9	123.9	127.3	129.1	127.1
623.1	30°	605.6	499.6	221.3	131.8	118.2	116.6	120.7	125.5	127.5	125.7
684.4	32.5°	660.9	527.5	207.2	135.0	117.3	111.7	115.5	121.6	125.0	123.9
764.6	35°	733.4	569.8	201.8	138.6	116.6	106.4	109.2	115.7	121.6	122.8
865.6	37.5°	821.2	628.7	203.4	140.2	114.6	102.1	103.5	109.2	116.9	120.5
979.3	40°	921.1	697.4	212.4	138.6	112.3	98.5	98.7	103.1	109.8	115.3
1101.6	42.5°	1024.2	777.5	229.2	132.7	110.3	95.4	94.7	97.6	102.1	106.0
1223.7	45°	1122.2	860.0	245.7	124.6	107.8	92.2	90.6	91.7	92.6	94.2
1342.6	47.5°	1207.9	917.9	241.0	117.1	104.4	88.6	85.8	85.4	82.7	82.4
1448.8	50°	1267.0	930.6	214.0	109.6	99.4	84.5	80.2	77.5	72.7	70.4
1528.3	52.5°	1285.8	880.6	174.8	102.1	91.3	79.0	72.9	68.6	62.7	60.7
1574.1	55°	1260.8	782.5	139.7	93.1	79.9	71.8	65.0	59.3	54.6	52.1
1579.1	57.5°	1199.9	657.7	110.5	82.4	67.9	63.6	56.8	51.2	47.1	44.6
1523.8	60°	1098.9	522.3	87.4	69.8	58.0	54.8	47.8	44.2	40.5	37.6
1381.1	62.5°	945.6	372.8	68.6	55.3	48.5	44.8	40.8	38.0	33.7	29.7
1124.5	65°	737.9	228.1	53.0	40.5	39.0	37.1	34.7	32.2	27.0	22.9
733.6	67.5°	465.4	108.0	37.8	30.6	30.8	29.9	28.8	26.7	22.9	19.3
328.6	70°	205.0	52.3	24.9	23.3	22.9	22.9	23.8	23.1	19.5	16.1
114.1	72.5°	69.8	28.1	18.6	17.7	16.5	16.3	19.9	19.3	15.6	12.5
56.8	75°	36.5	18.8	13.6	12.7	10.0	12.0	15.9	14.9	11.1	8.2
37.6	77.5°	23.8	13.4	9.3	8.2	5.7	7.9	11.8	10.4	6.6	4.1
24.7	80°	14.9	8.8	5.4	3.9	2.7	4.3	6.3	4.5	2.5	0.9
14.5	82.5°	7.9	4.5	2.0	1.4	1.1	1.4	1.6	1.1	0.5	0.0
7.5	85°	3.2	1.6	0.7	0.5	0.2	0.0	0.5	0.2	0.0	0.0
1.4	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>
448.0
418.5
350.4
261.1
176.2
142.7
139.1
137.0
133.9
130.7
128.6
127.1
125.5
123.9
122.8
121.4
117.1
107.6
95.1
82.2
70.7
60.5
52.1
44.2
36.9
29.0
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