

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: P938958

Luminaire Tested: **GALN-SB1B-827-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938958  
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-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

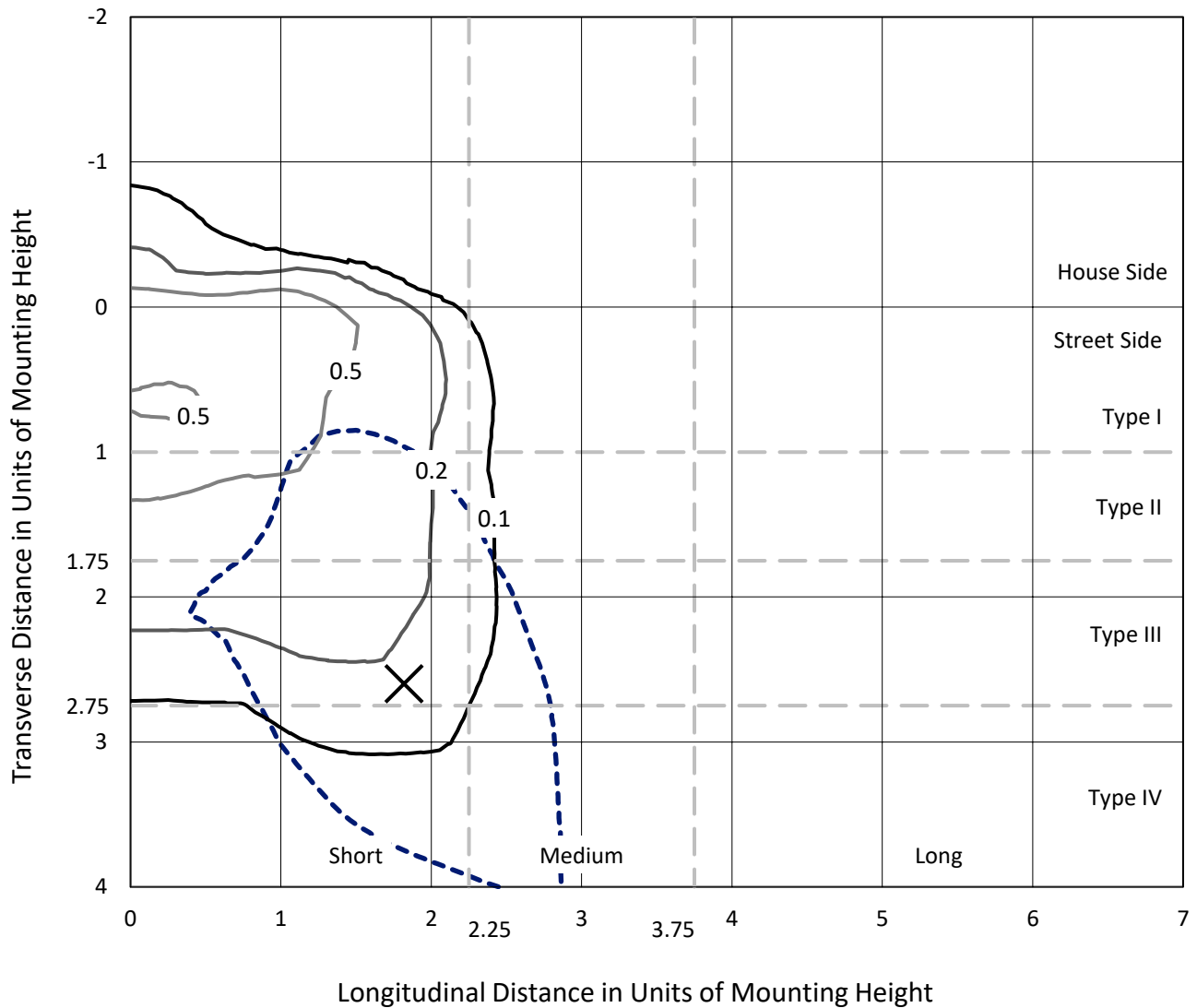
Lumens per Lamp: N/A  
Luminaire Lumens: 3709 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

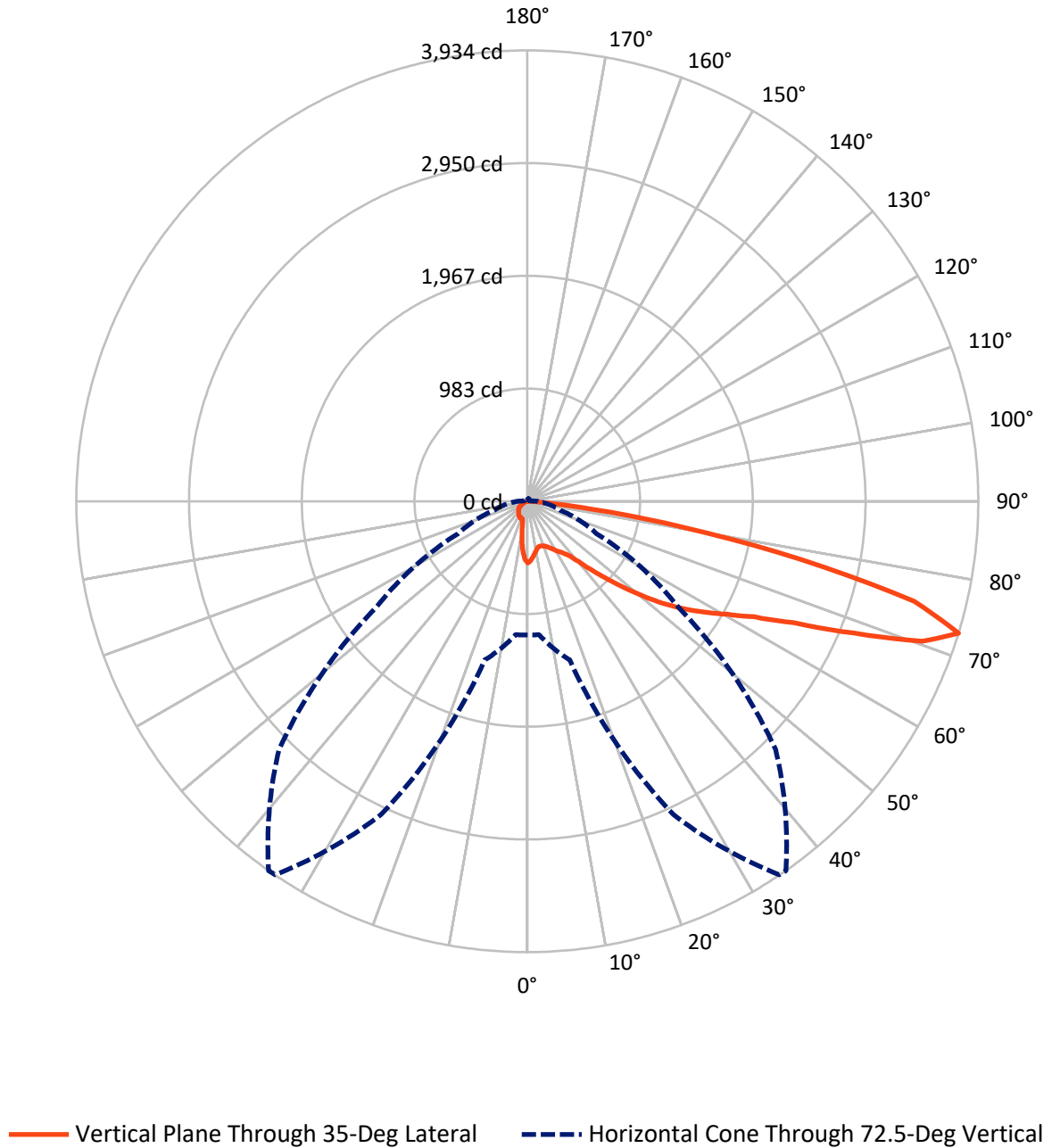
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	417.4	0.0	417.4
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	3291.6	0.0	3291.6
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	3709.0	0.0	3709.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.2	1.2
10°-20°	103.3	2.8
20°-30°	167.9	4.5
30°-40°	280.1	7.6
40°-50°	529.9	14.3
50°-60°	842.1	22.7
60°-70°	1041.7	28.1
70°-80°	647.5	17.5
80°-90°	52.3	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°	3709.0	100.0
0°-180°	3709.0	100.0

**Coefficient of Utilization**



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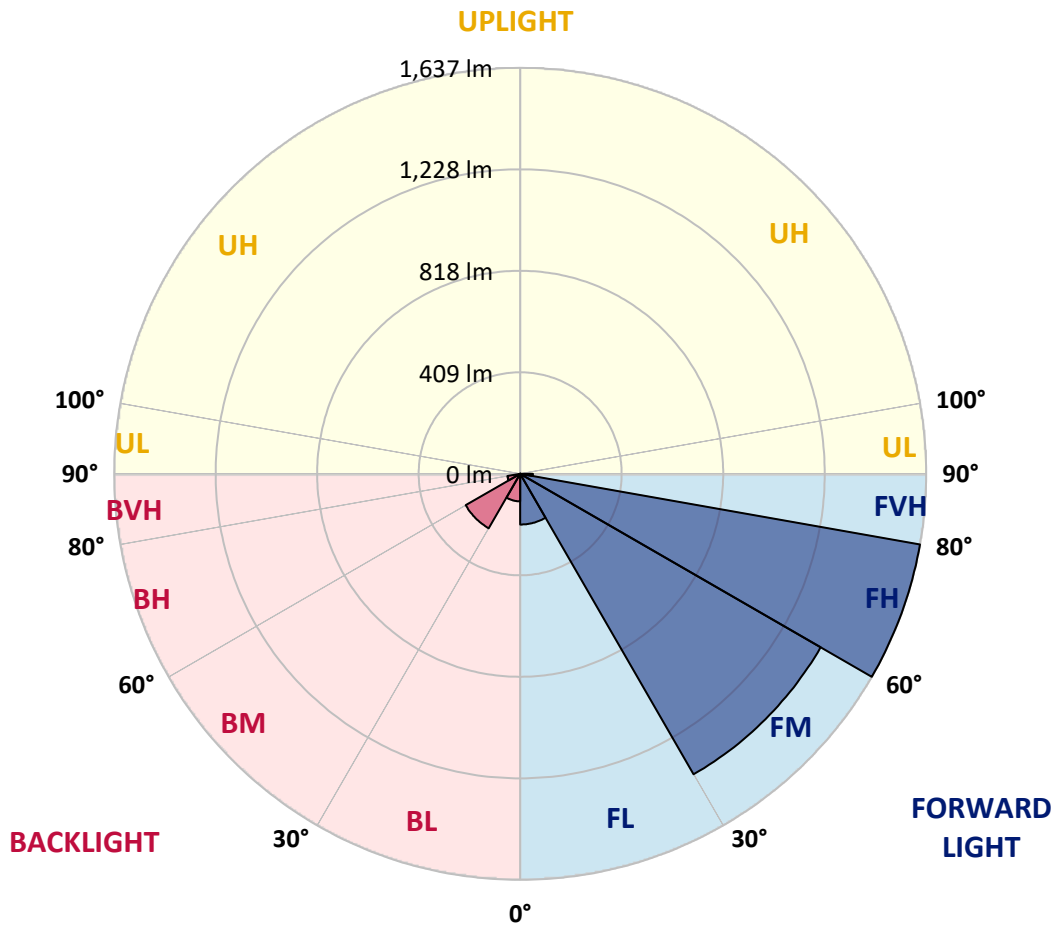
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	204.5	5.5			
FM (30°-60°)	1398.7	37.7			
FH (60°-80°)	1636.8	44.1			G1/1800
FVH (80°-90°)	51.6	1.4			G1/100
BL (0°-30°)	110.9	3.0	B1/500		
BM (30°-60°)	253.4	6.8	B1/1000		
BH (60°-80°)	52.4	1.4	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
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°	34°	35°	45°	55°	65°	75°
0°	537.6	537.6	537.6	537.6	537.6	537.6	537.6	537.6	537.6	537.6
2.5°	513.6	518.0	518.8	520.2	520.2	521.8	524.5	528.3	534.6	537.8
5°	473.4	476.7	480.8	484.0	490.3	491.1	501.7	512.0	526.4	537.3
7.5°	432.9	436.7	442.2	450.0	458.2	460.6	476.7	494.1	516.9	537.3
10°	404.4	404.7	409.6	417.4	430.5	433.5	453.0	477.8	506.3	534.0
12.5°	388.4	390.3	392.4	398.4	410.9	412.8	433.7	462.8	495.7	532.1
15°	388.4	389.7	391.1	394.1	404.1	405.8	424.2	453.3	490.3	532.9
17.5°	392.4	394.6	393.5	397.1	407.7	408.7	425.0	450.6	490.0	538.1
20°	402.2	403.8	401.7	403.8	414.4	416.6	433.5	455.8	494.6	547.1
22.5°	417.7	418.5	413.4	415.0	425.9	428.6	448.1	470.4	505.8	561.5
25°	437.3	438.9	431.0	432.9	443.3	446.5	469.1	492.4	523.4	581.3
27.5°	459.8	460.6	453.9	453.6	466.9	471.5	494.3	519.6	547.1	606.3
30°	485.7	488.1	481.6	480.5	497.3	501.1	523.7	553.0	581.9	643.8
32.5°	506.0	507.9	504.1	506.8	524.0	527.0	559.3	600.3	636.5	697.1
35°	535.4	536.5	527.8	532.7	552.2	559.8	607.9	666.6	705.2	763.9
37.5°	641.6	641.6	604.7	580.5	599.2	606.0	674.5	750.1	790.0	853.6
40°	788.7	786.2	732.1	682.7	680.2	693.6	769.4	855.3	899.6	961.2
42.5°	945.5	941.7	868.0	819.1	811.0	815.6	878.9	984.9	1030.0	1092.5
45°	1084.6	1083.5	1016.1	950.4	935.7	950.4	1015.6	1136.5	1168.9	1234.6
47.5°	1201.2	1201.2	1152.0	1109.1	1101.5	1110.2	1200.7	1304.8	1301.8	1386.0
50°	1335.5	1334.4	1287.6	1269.2	1277.0	1289.3	1413.7	1482.0	1439.3	1534.7
52.5°	1429.5	1436.0	1420.0	1417.0	1457.2	1478.4	1630.1	1655.3	1562.4	1675.7
55°	1504.0	1511.6	1530.1	1551.0	1628.4	1656.2	1839.6	1819.8	1665.4	1798.0
57.5°	1609.4	1598.5	1627.1	1668.4	1793.7	1827.1	2042.6	1974.9	1748.3	1897.2
60°	1737.4	1739.0	1743.9	1796.1	1958.6	2001.6	2242.6	2121.7	1801.6	1958.1
62.5°	1891.2	1893.7	1903.7	1983.9	2180.1	2220.6	2455.7	2241.8	1826.0	1941.0
65°	1880.6	1891.0	2003.2	2277.4	2516.8	2556.8	2704.4	2326.1	1789.1	1784.4
67.5°	1713.2	1730.1	1917.9	2628.0	3024.5	3069.1	3004.9	2342.6	1629.5	1387.7
70°	1493.6	1499.6	1725.5	2943.3	3612.3	3657.5	3274.0	2160.3	1236.5	774.0
72.5°	1166.4	1167.8	1432.8	3016.4	3931.4	3933.9	3062.8	1603.7	665.0	297.3
75°	833.2	825.1	959.6	2446.2	3458.8	3486.5	2296.2	752.3	254.1	140.5
77.5°	446.8	455.8	543.0	1450.7	2389.4	2436.7	1252.9	216.9	129.4	95.7
80°	138.1	145.7	222.6	664.2	1353.4	1381.9	464.5	96.5	90.2	68.2
82.5°	43.5	45.1	103.8	279.1	561.7	574.8	134.5	54.6	61.7	45.1
85°	12.5	12.8	46.2	104.1	138.9	141.6	37.8	21.2	35.3	28.0
87.5°	1.4	4.3	17.4	17.4	12.2	12.0	4.1	4.6	10.1	3.5
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°
537.6	0°	537.6	537.6	537.6	537.6	537.6	537.6	537.6	537.6	537.6	537.6
540.0	2.5°	538.6	538.9	535.4	529.4	522.9	517.4	510.7	505.2	501.4	500.3
544.9	5°	542.5	540.5	530.5	512.3	490.5	471.8	450.9	434.3	423.4	418.8
550.1	7.5°	548.2	542.7	520.7	484.8	443.3	406.3	368.8	339.7	321.2	312.0
555.0	10°	553.0	542.2	504.4	445.2	381.6	325.6	275.0	240.0	220.4	211.2
560.7	12.5°	557.7	541.9	483.2	398.1	312.0	243.5	196.5	179.1	173.7	171.8
569.9	15°	566.4	542.7	456.6	344.3	242.7	184.0	166.9	166.6	167.7	167.1
584.0	17.5°	578.3	543.5	426.4	287.3	187.2	162.2	161.4	163.9	165.5	164.7
601.7	20°	593.8	546.8	394.3	230.7	160.9	156.8	158.7	160.9	162.2	160.9
625.3	22.5°	615.6	552.5	359.3	185.3	152.5	153.5	155.2	157.6	159.0	157.1
655.5	25°	642.2	561.5	324.8	161.2	148.4	149.7	152.2	154.9	156.5	154.6
693.6	27.5°	676.7	575.9	293.0	155.7	144.3	145.1	148.7	152.7	154.9	152.5
747.6	30°	726.7	599.5	265.5	158.2	141.9	140.0	144.9	150.6	153.0	150.8
821.3	32.5°	793.0	632.9	248.7	162.0	140.8	134.0	138.6	145.9	150.0	148.7
917.5	35°	880.0	683.8	242.1	166.3	140.0	127.7	131.0	138.9	145.9	147.3
1038.7	37.5°	985.4	754.4	244.0	168.2	137.5	122.6	124.2	131.0	140.2	144.6
1175.1	40°	1105.3	836.8	254.9	166.3	134.8	118.2	118.5	123.7	131.8	138.3
1321.9	42.5°	1228.9	933.0	275.0	159.3	132.4	114.4	113.6	117.1	122.6	127.2
1468.4	45°	1346.6	1031.9	294.9	149.5	129.4	110.6	108.7	110.1	111.2	113.1
1611.0	47.5°	1449.3	1101.5	289.2	140.5	125.3	106.3	103.0	102.5	99.2	98.9
1738.5	50°	1520.3	1116.7	256.8	131.5	119.3	101.4	96.2	92.9	87.2	84.5
1833.9	52.5°	1542.8	1056.6	209.8	122.6	109.5	94.8	87.5	82.3	75.3	72.8
1888.8	55°	1512.9	939.0	167.7	111.7	95.9	86.2	78.0	71.2	65.5	62.5
1894.8	57.5°	1439.8	789.2	132.6	98.9	81.5	76.4	68.2	61.4	56.5	53.5
1828.5	60°	1318.6	626.7	104.9	83.7	69.6	65.8	57.3	53.0	48.6	45.1
1657.2	62.5°	1134.6	447.3	82.3	66.3	58.2	53.8	48.9	45.7	40.5	35.6
1349.3	65°	885.4	273.7	63.6	48.6	46.7	44.6	41.6	38.6	32.3	27.4
880.3	67.5°	558.5	129.6	45.4	36.7	37.0	35.9	34.5	32.1	27.4	23.1
394.3	70°	246.0	62.8	29.9	28.0	27.4	27.4	28.5	27.7	23.4	19.3
137.0	72.5°	83.7	33.7	22.3	21.2	19.8	19.6	23.9	23.1	18.8	14.9
68.2	75°	43.8	22.6	16.3	15.2	12.0	14.4	19.0	17.9	13.3	9.8
45.1	77.5°	28.5	16.0	11.1	9.8	6.8	9.5	14.1	12.5	7.9	4.9
29.6	80°	17.9	10.6	6.5	4.6	3.3	5.2	7.6	5.4	3.0	1.1
17.4	82.5°	9.5	5.4	2.4	1.6	1.4	1.6	1.9	1.4	0.5	0.0
9.0	85°	3.8	1.9	0.8	0.5	0.3	0.0	0.5	0.3	0.0	0.0
1.6	87.5°	1.4	0.3	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>
537.6
502.2
420.4
313.3
211.4
171.2
166.9
164.4
160.6
156.8
154.4
152.5
150.6
148.7
147.3
145.7
140.5
129.1
114.1
98.7
84.8
72.6
62.5
53.0
44.3
34.8
26.6
22.6
18.5
<i>14.1</i>
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