

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: P938758

Luminaire Tested: **GALN-SB1A-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938758
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-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 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: 3594 lumens
Efficiency: N/A
Efficacy: 116.3 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

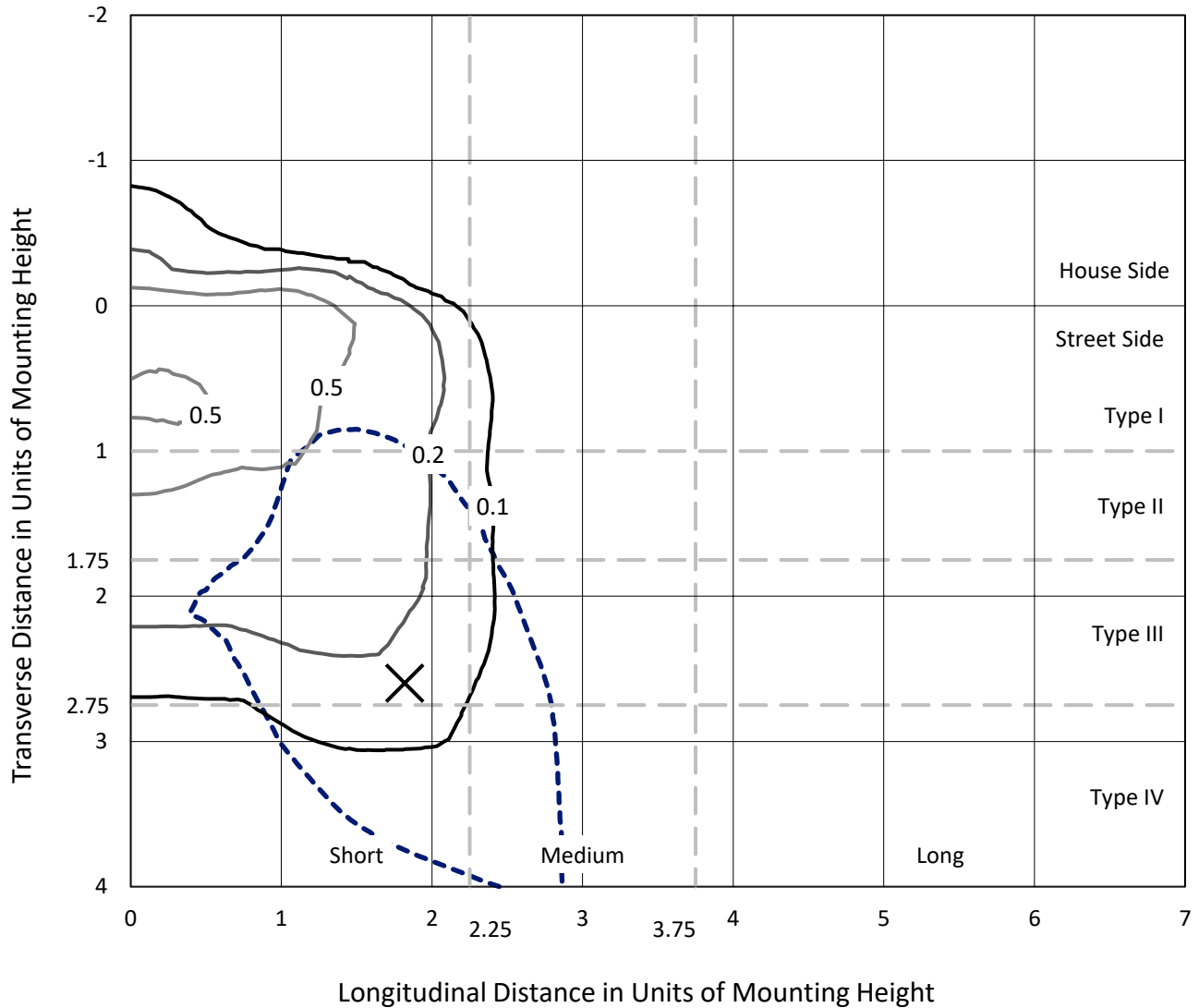
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

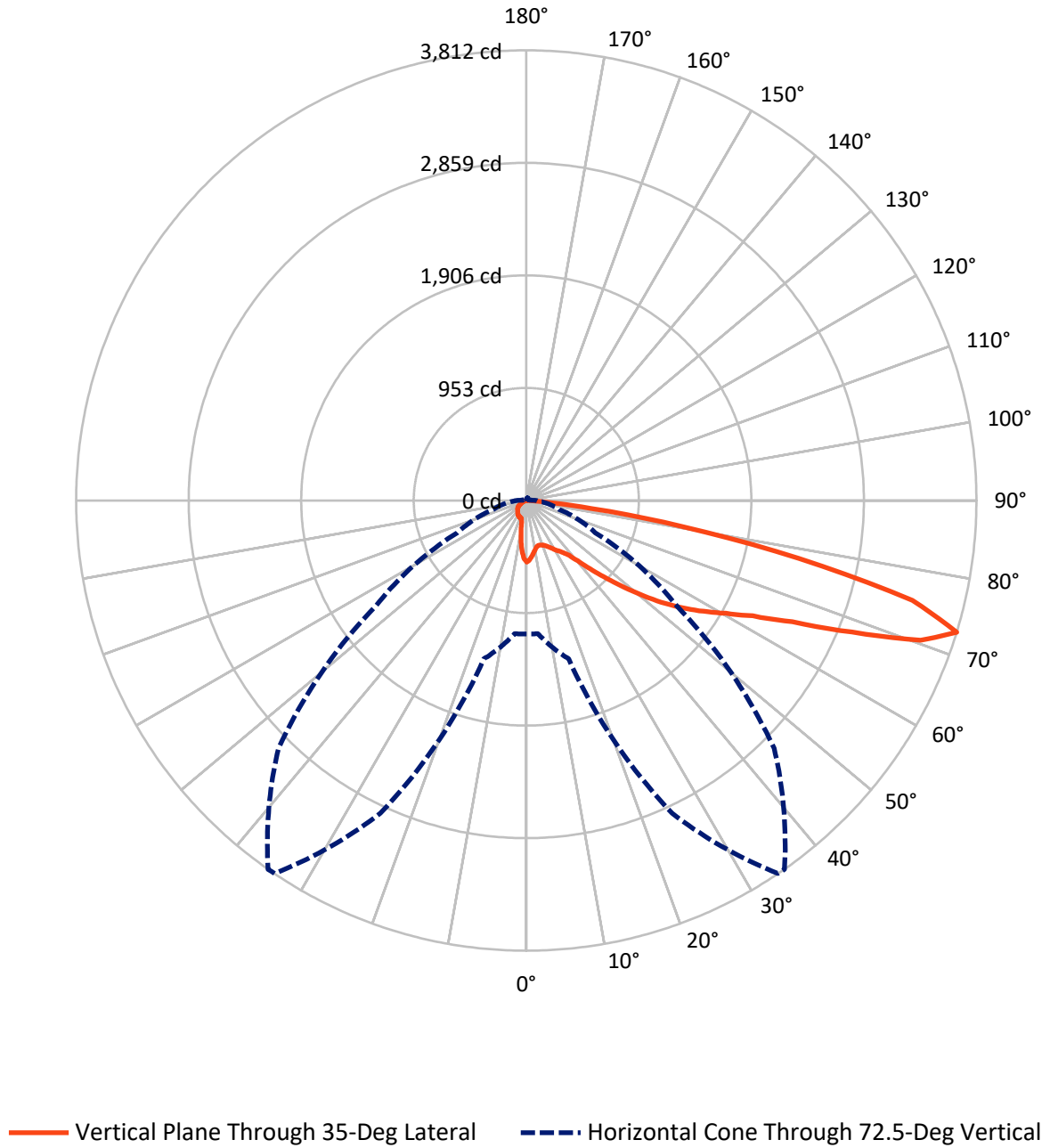
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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	404.5	0.0	404.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	3189.5	0.0	3189.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	3594.0	0.0	3594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	1.2
10°-20°	100.1	2.8
20°-30°	162.7	4.5
30°-40°	271.4	7.6
40°-50°	513.5	14.3
50°-60°	816.0	22.7
60°-70°	1009.4	28.1
70°-80°	627.4	17.5
80°-90°	50.7	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°	3594.0	100.0
0°-180°	3594.0	100.0

Coefficient of Utilization



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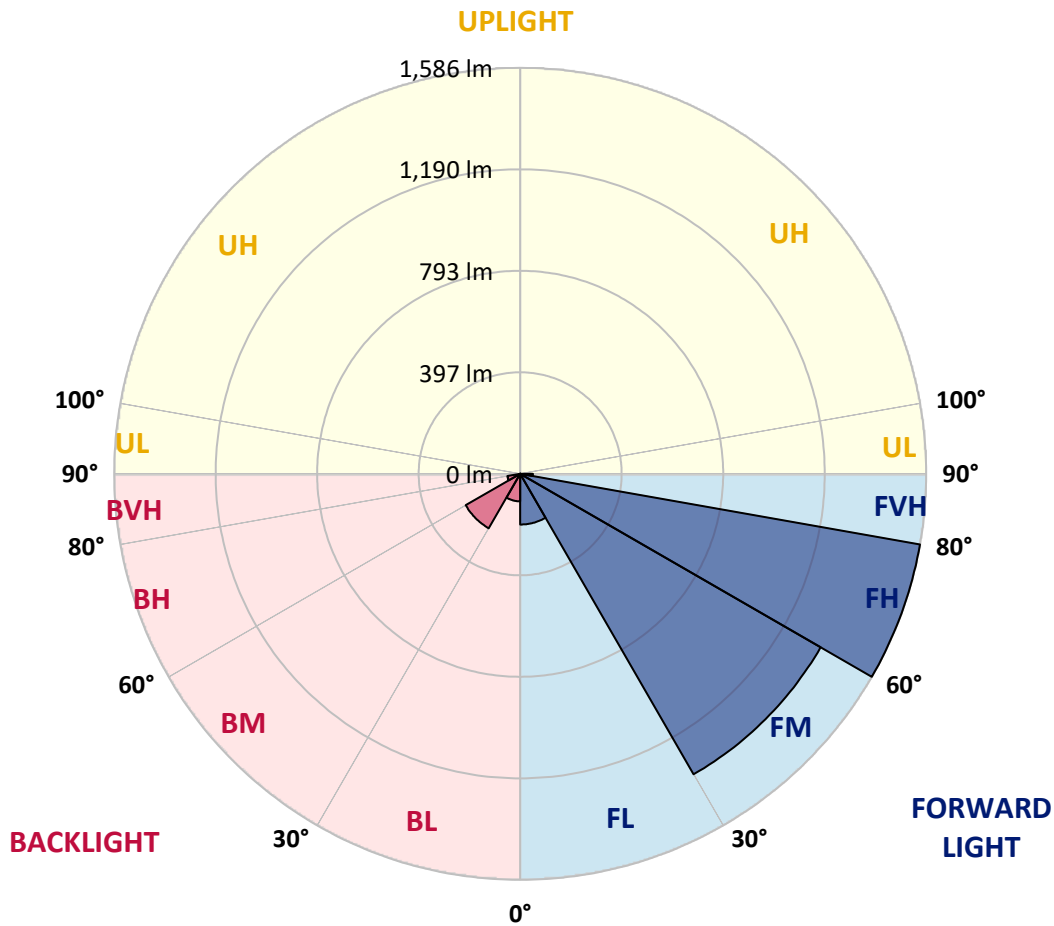
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.1	5.5			
FM (30°-60°)	1355.3	37.7			
FH (60°-80°)	1586.1	44.1			G1/1800
FVH (80°-90°)	50.0	1.4			G1/100
BL (0°-30°)	107.5	3.0	B0/110		
BM (30°-60°)	245.6	6.8	B1/1000		
BH (60°-80°)	50.8	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°	520.9	520.9	520.9	520.9	520.9	520.9	520.9	520.9	520.9	520.9
2.5°	497.7	501.9	502.7	504.0	504.0	505.6	508.3	511.9	518.0	521.2
5°	458.7	461.9	465.9	469.0	475.1	475.9	486.1	496.1	510.1	520.6
7.5°	419.5	423.2	428.5	436.1	444.0	446.4	461.9	478.8	500.9	520.6
10°	391.9	392.1	396.9	404.5	417.1	420.0	439.0	463.0	490.6	517.5
12.5°	376.3	378.2	380.3	386.1	398.2	400.0	420.3	448.5	480.3	515.6
15°	376.3	377.6	378.9	381.8	391.6	393.2	411.1	439.3	475.1	516.4
17.5°	380.3	382.4	381.3	384.7	395.0	396.1	411.9	436.6	474.8	521.4
20°	389.7	391.3	389.2	391.3	401.6	403.7	420.0	441.6	479.3	530.1
22.5°	404.8	405.5	400.5	402.1	412.7	415.3	434.3	455.8	490.1	544.1
25°	423.7	425.3	417.7	419.5	429.5	432.7	454.5	477.2	507.2	563.3
27.5°	445.6	446.4	439.8	439.5	452.4	456.9	479.0	503.5	530.1	587.5
30°	470.6	473.0	466.6	465.6	481.9	485.6	507.5	535.9	563.8	623.9
32.5°	490.3	492.2	488.5	491.1	507.7	510.6	542.0	581.7	616.7	675.5
35°	518.8	519.8	511.4	516.2	535.1	542.5	589.1	646.0	683.4	740.3
37.5°	621.8	621.8	585.9	562.5	580.7	587.3	653.6	726.8	765.5	827.2
40°	764.2	761.8	709.4	661.5	659.1	672.0	745.5	828.7	871.7	931.4
42.5°	916.2	912.5	841.1	793.7	785.8	790.3	851.6	954.4	998.1	1058.6
45°	1051.0	1049.9	984.6	920.9	906.7	920.9	984.1	1101.3	1132.6	1196.4
47.5°	1164.0	1164.0	1116.3	1074.7	1067.3	1075.8	1163.4	1264.3	1261.4	1343.0
50°	1294.1	1293.0	1247.7	1229.8	1237.4	1249.3	1369.9	1436.0	1394.7	1487.1
52.5°	1385.2	1391.5	1376.0	1373.1	1412.0	1432.6	1579.5	1604.0	1514.0	1623.8
55°	1457.3	1464.7	1482.6	1502.9	1577.9	1604.8	1782.6	1763.3	1613.8	1742.3
57.5°	1559.5	1549.0	1576.6	1616.7	1738.1	1770.5	1979.3	1913.7	1694.1	1838.4
60°	1683.5	1685.1	1689.9	1740.4	1897.9	1939.5	2173.1	2055.9	1745.7	1897.4
62.5°	1832.6	1835.0	1844.7	1922.4	2112.5	2151.8	2379.6	2172.3	1769.4	1880.8
65°	1822.3	1832.3	1941.1	2206.8	2438.8	2477.5	2620.5	2253.9	1733.6	1729.1
67.5°	1660.1	1676.4	1858.4	2546.5	2930.7	2973.9	2911.8	2270.0	1579.0	1344.6
70°	1447.3	1453.1	1672.0	2852.0	3500.3	3544.1	3172.5	2093.3	1198.2	750.0
72.5°	1130.3	1131.6	1388.3	2922.8	3809.5	3811.9	2967.9	1554.0	644.4	288.1
75°	807.4	799.5	929.9	2370.3	3351.6	3378.4	2225.0	728.9	246.2	136.1
77.5°	432.9	441.6	526.2	1405.7	2315.3	2361.1	1214.0	210.1	125.4	92.7
80°	133.8	141.2	215.7	643.6	1311.4	1339.1	450.1	93.5	87.4	66.1
82.5°	42.1	43.7	100.6	270.5	544.3	557.0	130.4	52.9	59.8	43.7
85°	12.1	12.4	44.8	100.9	134.6	137.2	36.6	20.5	34.2	27.1
87.5°	1.3	4.2	16.9	16.9	11.9	11.6	4.0	4.5	9.7	3.4
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°
520.9	0°	520.9	520.9	520.9	520.9	520.9	520.9	520.9	520.9	520.9	520.9
523.3	2.5°	521.9	522.2	518.8	513.0	506.7	501.4	494.8	489.6	485.9	484.8
528.0	5°	525.6	523.8	514.0	496.4	475.3	457.2	436.9	420.8	410.3	405.8
533.0	7.5°	531.2	525.9	504.6	469.8	429.5	393.7	357.4	329.2	311.3	302.3
537.7	10°	535.9	525.4	488.8	431.4	369.7	315.5	266.5	232.5	213.6	204.6
543.3	12.5°	540.4	525.1	468.2	385.8	302.3	236.0	190.4	173.5	168.3	166.4
552.2	15°	548.8	525.9	442.4	333.7	235.2	178.3	161.7	161.4	162.5	162.0
565.9	17.5°	560.4	526.7	413.2	278.4	181.4	157.2	156.4	158.8	160.4	159.6
583.0	20°	575.4	529.8	382.1	223.6	155.9	151.9	153.8	155.9	157.2	155.9
606.0	22.5°	596.5	535.4	348.1	179.6	147.7	148.8	150.4	152.7	154.1	152.2
635.2	25°	622.3	544.1	314.7	156.2	143.8	145.1	147.5	150.1	151.7	149.8
672.0	27.5°	655.7	558.0	283.9	150.9	139.8	140.6	144.0	148.0	150.1	147.7
724.5	30°	704.2	580.9	257.3	153.3	137.5	135.6	140.4	145.9	148.3	146.2
795.8	32.5°	768.4	613.3	241.0	157.0	136.4	129.8	134.3	141.4	145.4	144.0
889.0	35°	852.7	662.6	234.6	161.2	135.6	123.8	126.9	134.6	141.4	142.7
1006.5	37.5°	954.9	731.0	236.5	163.0	133.3	118.8	120.3	126.9	135.9	140.1
1138.7	40°	1071.0	810.8	247.0	161.2	130.6	114.6	114.8	119.8	127.7	134.0
1280.9	42.5°	1190.8	904.1	266.5	154.3	128.2	110.9	110.1	113.5	118.8	123.2
1422.8	45°	1304.9	999.9	285.7	144.8	125.4	107.2	105.3	106.7	107.7	109.6
1561.1	47.5°	1404.4	1067.3	280.2	136.1	121.4	103.0	99.8	99.3	96.1	95.9
1684.6	50°	1473.1	1082.1	248.9	127.5	115.6	98.2	93.2	90.1	84.5	81.9
1777.0	52.5°	1495.0	1023.9	203.3	118.8	106.1	91.9	84.8	79.8	72.9	70.6
1830.2	55°	1466.0	909.8	162.5	108.2	93.0	83.5	75.6	69.0	63.5	60.6
1836.0	57.5°	1395.2	764.7	128.5	95.9	79.0	74.0	66.1	59.5	54.8	51.9
1771.8	60°	1277.7	607.3	101.7	81.1	67.4	63.7	55.6	51.4	47.1	43.7
1605.9	62.5°	1099.5	433.5	79.8	64.3	56.4	52.1	47.4	44.2	39.2	34.5
1307.5	65°	858.0	265.2	61.6	47.1	45.3	43.2	40.3	37.4	31.3	26.6
853.0	67.5°	541.2	125.6	44.0	35.6	35.8	34.8	33.4	31.1	26.6	22.4
382.1	70°	238.3	60.8	29.0	27.1	26.6	26.6	27.7	26.9	22.6	18.7
132.7	72.5°	81.1	32.7	21.6	20.5	19.2	19.0	23.2	22.4	18.2	14.5
66.1	75°	42.4	21.9	15.8	14.7	11.6	14.0	18.4	17.4	12.9	9.5
43.7	77.5°	27.7	15.5	10.8	9.5	6.6	9.2	13.7	12.1	7.6	4.7
28.7	80°	17.4	10.3	6.3	4.5	3.2	5.0	7.4	5.3	2.9	1.1
16.9	82.5°	9.2	5.3	2.4	1.6	1.3	1.6	1.8	1.3	0.5	0.0
8.7	85°	3.7	1.8	0.8	0.5	0.3	0.0	0.5	0.3	0.0	0.0
1.6	87.5°	1.3	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>
520.9
486.7
407.4
303.6
204.9
165.9
161.7
159.3
155.6
151.9
149.6
147.7
145.9
144.0
142.7
141.2
136.1
125.1
110.6
95.6
82.2
70.3
60.6
51.4
42.9
33.7
25.8
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17.9
13.7
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