

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: P938808

Luminaire Tested: **GALN-SB1A-835-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938808  
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-835-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

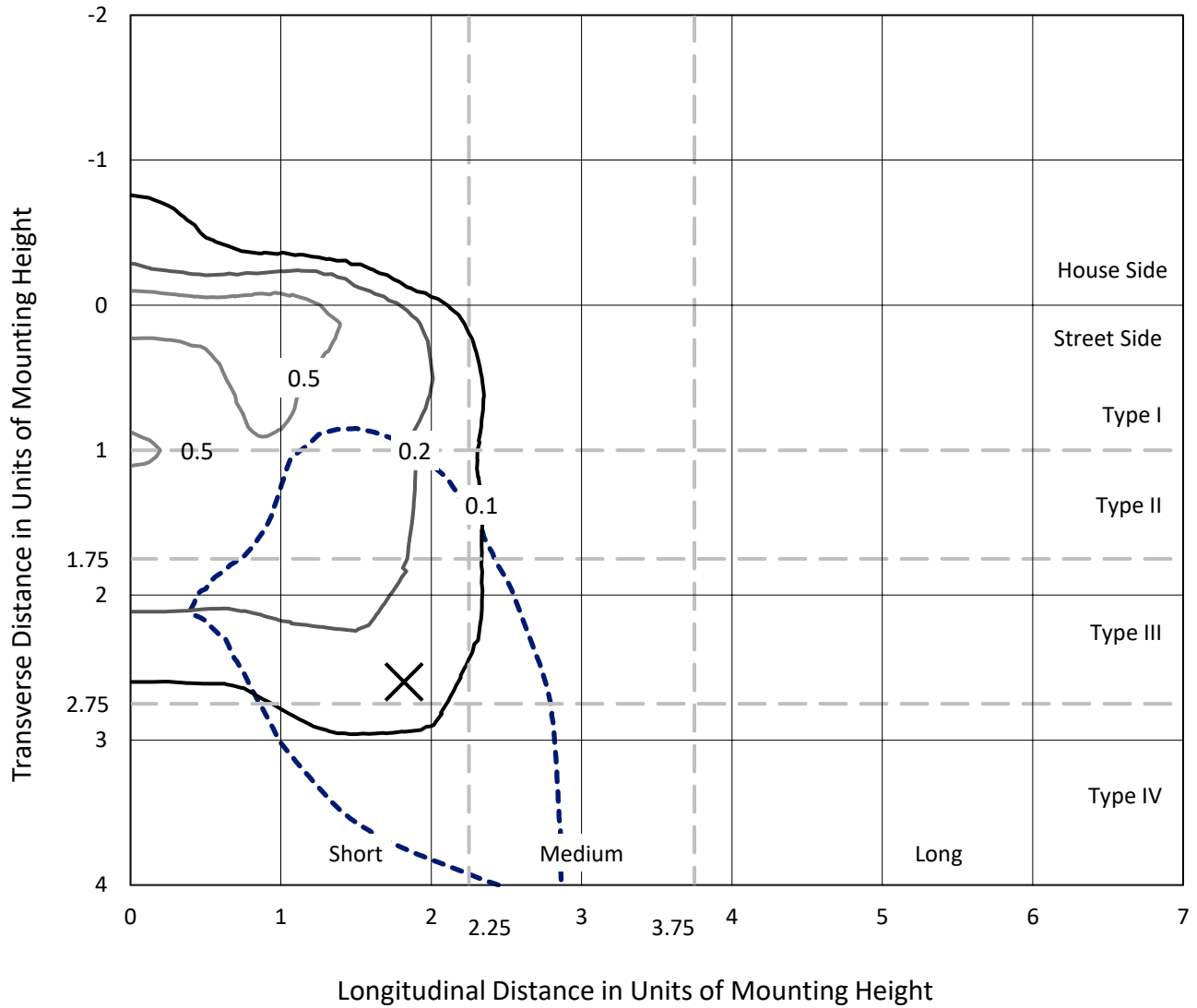
Lumens per Lamp: N/A  
Luminaire Lumens: 3151 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

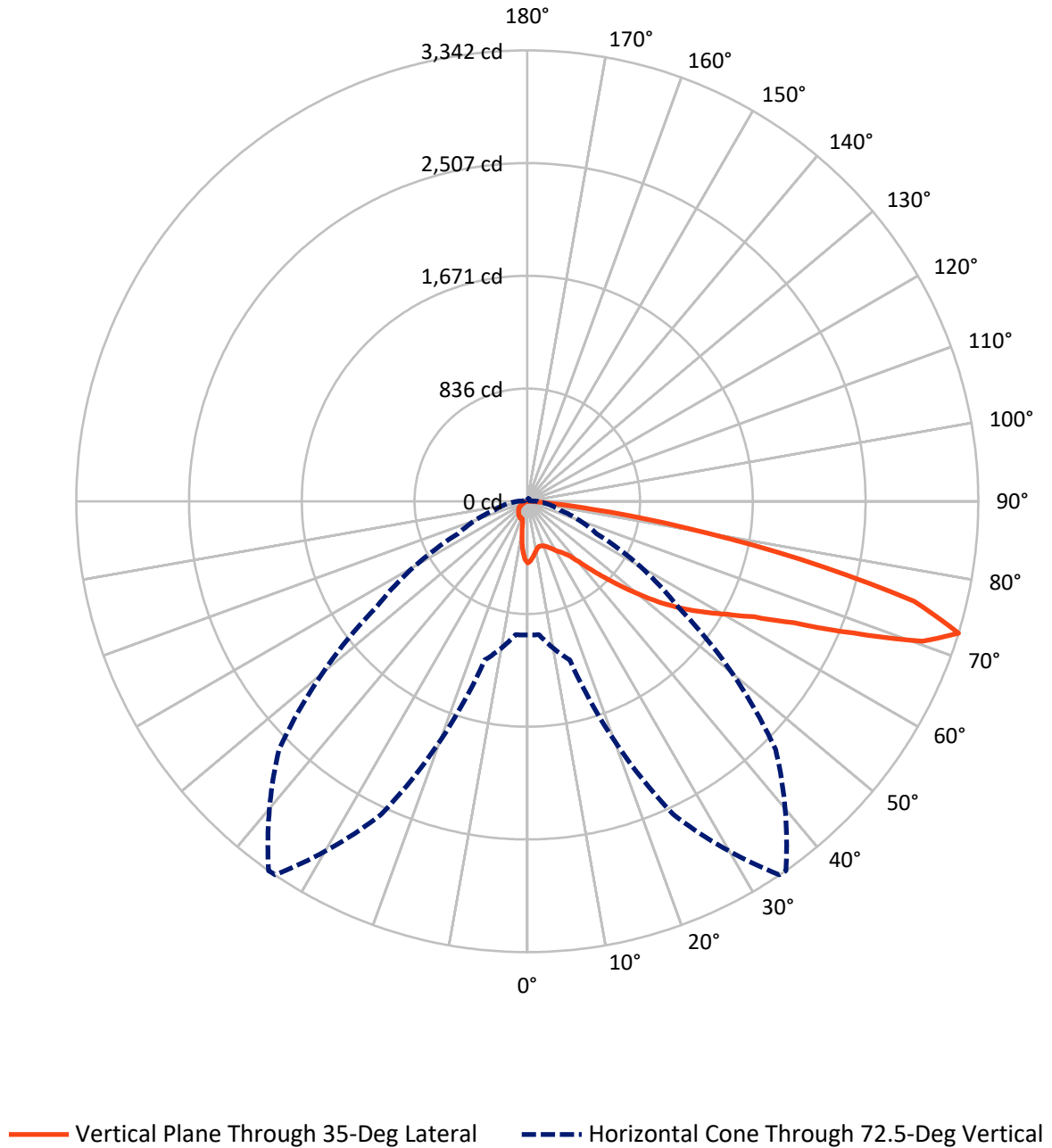
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	354.6	0.0	354.6
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	2796.4	0.0	2796.4
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	3151.0	0.0	3151.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.5	1.2
10°-20°	87.8	2.8
20°-30°	142.6	4.5
30°-40°	237.9	7.6
40°-50°	450.2	14.3
50°-60°	715.4	22.7
60°-70°	885.0	28.1
70°-80°	550.1	17.5
80°-90°	44.5	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°	3151.0	100.0
0°-180°	3151.0	100.0

**Coefficient of Utilization**



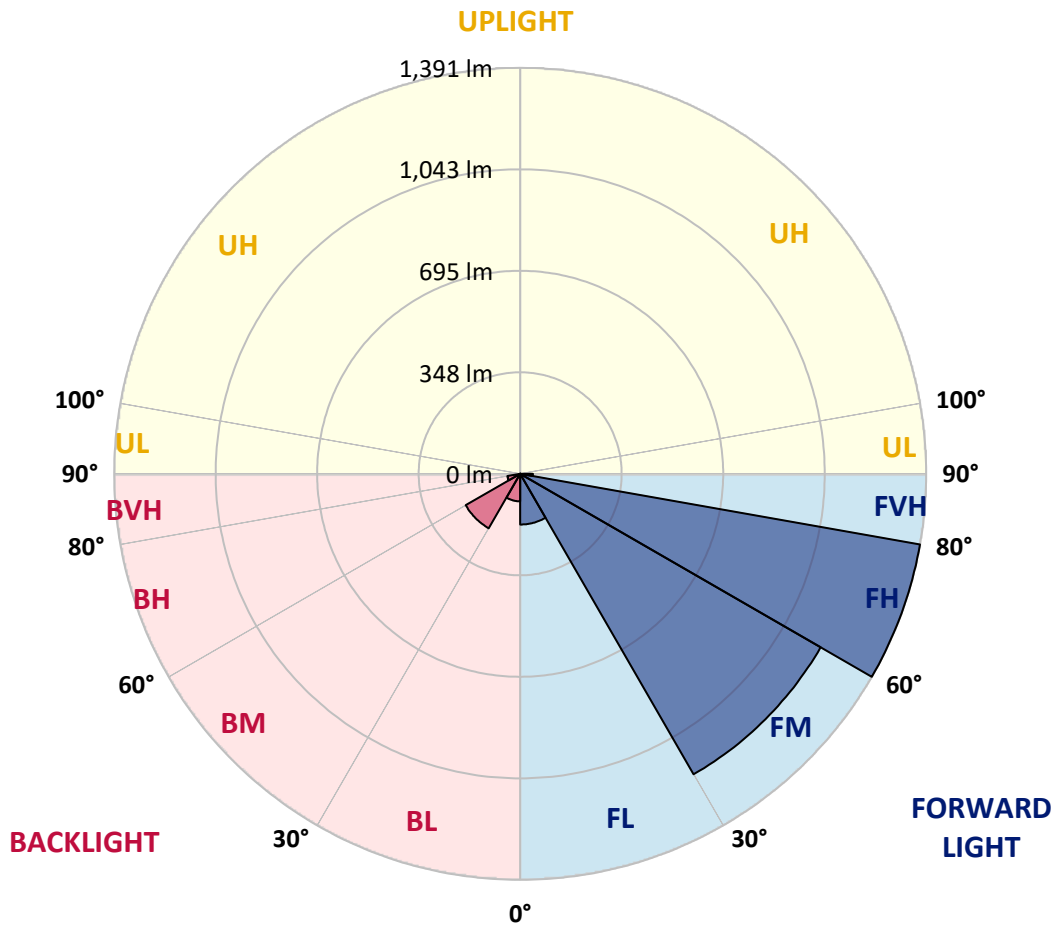
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	173.7	5.5			
FM (30°-60°)	1188.2	37.7			
FH (60°-80°)	1390.6	44.1			G1/1800
FVH (80°-90°)	43.9	1.4			G1/100
BL (0°-30°)	94.2	3.0	B0/110		
BM (30°-60°)	215.3	6.8	B0/220		
BH (60°-80°)	44.5	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°	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7
2.5°	436.4	440.1	440.8	441.9	441.9	443.3	445.6	448.8	454.1	456.9
5°	402.2	405.0	408.4	411.2	416.5	417.2	426.2	435.0	447.2	456.5
7.5°	367.8	371.0	375.6	382.3	389.3	391.3	405.0	419.7	439.1	456.5
10°	343.6	343.8	347.9	354.6	365.7	368.3	384.9	405.9	430.1	453.7
12.5°	329.9	331.5	333.4	338.5	349.1	350.7	368.5	393.2	421.1	452.1
15°	329.9	331.1	332.2	334.8	343.3	344.7	360.4	385.1	416.5	452.8
17.5°	333.4	335.2	334.3	337.3	346.3	347.2	361.1	382.8	416.3	457.1
20°	341.7	343.1	341.2	343.1	352.1	353.9	368.3	387.2	420.2	464.8
22.5°	354.9	355.6	351.2	352.6	361.8	364.1	380.7	399.7	429.7	477.0
25°	371.5	372.9	366.2	367.8	376.6	379.3	398.5	418.4	444.7	493.9
27.5°	390.7	391.3	385.6	385.3	396.7	400.6	420.0	441.4	464.8	515.1
30°	412.6	414.7	409.1	408.2	422.5	425.7	444.9	469.8	494.3	547.0
32.5°	429.9	431.5	428.3	430.6	445.1	447.7	475.2	510.0	540.7	592.2
35°	454.8	455.8	448.4	452.5	469.2	475.6	516.5	566.4	599.1	649.0
37.5°	545.1	545.1	513.7	493.2	509.1	514.9	573.1	637.2	671.2	725.2
40°	670.0	667.9	622.0	580.0	577.9	589.2	653.6	726.6	764.2	816.6
42.5°	803.2	800.0	737.4	695.9	689.0	692.9	746.7	836.7	875.0	928.1
45°	921.5	920.5	863.3	807.4	794.9	807.4	862.8	965.6	993.0	1048.9
47.5°	1020.5	1020.5	978.7	942.2	935.8	943.2	1020.0	1108.5	1105.9	1177.5
50°	1134.6	1133.6	1093.9	1078.2	1084.9	1095.3	1201.1	1259.0	1222.8	1303.8
52.5°	1214.4	1220.0	1206.4	1203.8	1238.0	1256.0	1384.8	1406.3	1327.3	1423.6
55°	1277.7	1284.2	1299.9	1317.6	1383.4	1407.0	1562.8	1546.0	1414.8	1527.5
57.5°	1367.3	1358.1	1382.3	1417.4	1523.8	1552.2	1735.3	1677.8	1485.3	1611.8
60°	1476.0	1477.4	1481.6	1525.9	1664.0	1700.4	1905.2	1802.5	1530.5	1663.5
62.5°	1606.7	1608.8	1617.3	1685.4	1852.1	1886.5	2086.3	1904.5	1551.3	1649.0
65°	1597.7	1606.5	1701.8	1934.8	2138.2	2172.1	2297.5	1976.1	1519.9	1516.0
67.5°	1455.5	1469.8	1629.3	2232.6	2569.5	2607.4	2552.9	1990.2	1384.4	1178.9
70°	1268.9	1274.0	1465.9	2500.5	3068.9	3107.2	2781.4	1835.3	1050.5	657.6
72.5°	990.9	992.1	1217.2	2562.6	3339.9	3342.0	2602.0	1362.4	565.0	252.6
75°	707.9	701.0	815.2	2078.2	2938.4	2962.0	1950.7	639.1	215.9	119.4
77.5°	379.6	387.2	461.3	1232.5	2029.9	2070.1	1064.4	184.2	109.9	81.3
80°	117.3	123.8	189.1	564.3	1149.8	1174.0	394.6	82.0	76.7	58.0
82.5°	36.9	38.3	88.2	237.1	477.2	488.3	114.3	46.4	52.4	38.3
85°	10.6	10.9	39.3	88.4	118.0	120.3	32.1	18.0	30.0	23.8
87.5°	1.2	3.7	14.8	14.8	10.4	10.2	3.5	3.9	8.5	3.0
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°
456.7	0°	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7
458.8	2.5°	457.6	457.8	454.8	449.8	444.2	439.6	433.8	429.2	426.0	425.1
462.9	5°	460.8	459.2	450.7	435.2	416.7	400.8	383.0	369.0	359.7	355.8
467.3	7.5°	465.7	461.1	442.4	411.9	376.6	345.2	313.3	288.6	272.9	265.1
471.5	10°	469.8	460.6	428.5	378.2	324.2	276.6	233.7	203.9	187.2	179.4
476.3	12.5°	473.8	460.4	410.5	338.2	265.1	206.9	166.9	152.2	147.5	145.9
484.2	15°	481.2	461.1	387.9	292.5	206.2	156.3	141.8	141.5	142.5	142.0
496.2	17.5°	491.3	461.8	362.3	244.0	159.1	137.8	137.1	139.2	140.6	139.9
511.2	20°	504.5	464.5	335.0	196.0	136.7	133.2	134.8	136.7	137.8	136.7
531.3	22.5°	522.9	469.4	305.2	157.5	129.5	130.4	131.8	133.9	135.1	133.5
556.9	25°	545.6	477.0	275.9	136.9	126.1	127.2	129.3	131.6	133.0	131.4
589.2	27.5°	574.9	489.2	248.9	132.3	122.6	123.3	126.3	129.8	131.6	129.5
635.2	30°	617.4	509.3	225.6	134.4	120.5	118.9	123.1	127.9	130.0	128.1
697.7	32.5°	673.7	537.7	211.3	137.6	119.6	113.8	117.8	124.0	127.4	126.3
779.5	35°	747.6	580.9	205.7	141.3	118.9	108.5	111.3	118.0	124.0	125.1
882.4	37.5°	837.2	640.9	207.3	142.9	116.8	104.1	105.5	111.3	119.1	122.8
998.3	40°	939.0	710.9	216.6	141.3	114.5	100.4	100.7	105.1	112.0	117.5
1123.0	42.5°	1044.1	792.6	233.7	135.3	112.4	97.2	96.5	99.5	104.1	108.1
1247.5	45°	1144.0	876.7	250.5	127.0	109.9	94.0	92.4	93.5	94.4	96.0
1368.7	47.5°	1231.3	935.8	245.7	119.4	106.4	90.3	87.5	87.0	84.3	84.0
1477.0	50°	1291.6	948.7	218.2	111.7	101.4	86.1	81.7	79.0	74.1	71.8
1558.0	52.5°	1310.7	897.7	178.2	104.1	93.0	80.6	74.3	70.0	64.0	61.9
1604.6	55°	1285.3	797.7	142.5	94.9	81.5	73.2	66.3	60.5	55.6	53.1
1609.7	57.5°	1223.2	670.5	112.7	84.0	69.3	64.9	58.0	52.2	48.0	45.5
1553.4	60°	1120.2	532.4	89.1	71.1	59.1	55.9	48.7	45.0	41.3	38.3
1407.9	62.5°	963.9	380.0	70.0	56.3	49.4	45.7	41.6	38.8	34.4	30.2
1146.3	65°	752.2	232.5	54.0	41.3	39.7	37.9	35.3	32.8	27.5	23.3
747.8	67.5°	474.5	110.1	38.6	31.2	31.4	30.5	29.3	27.2	23.3	19.6
335.0	70°	208.9	53.3	25.4	23.8	23.3	23.3	24.2	23.6	19.9	16.4
116.4	72.5°	71.1	28.6	18.9	18.0	16.9	16.6	20.3	19.6	15.9	12.7
58.0	75°	37.2	19.2	13.9	12.9	10.2	12.2	16.2	15.2	11.3	8.3
38.3	77.5°	24.2	13.6	9.5	8.3	5.8	8.1	12.0	10.6	6.7	4.2
25.2	80°	15.2	9.0	5.5	3.9	2.8	4.4	6.5	4.6	2.5	0.9
14.8	82.5°	8.1	4.6	2.1	1.4	1.2	1.4	1.6	1.2	0.5	0.0
7.6	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°	1.2	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>
456.7
426.7
357.2
266.2
179.6
145.5
141.8
139.7
136.5
133.2
131.1
129.5
127.9
126.3
125.1
123.8
119.4
109.7
97.0
83.8
72.0
61.6
53.1
45.0
37.6
29.6
22.6
19.2
15.7
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7.6
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