

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: P938747

Luminaire Tested: **GALN-SB1A-735-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-735-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4490 lumens  
Efficiency: N/A  
Efficacy: 145.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

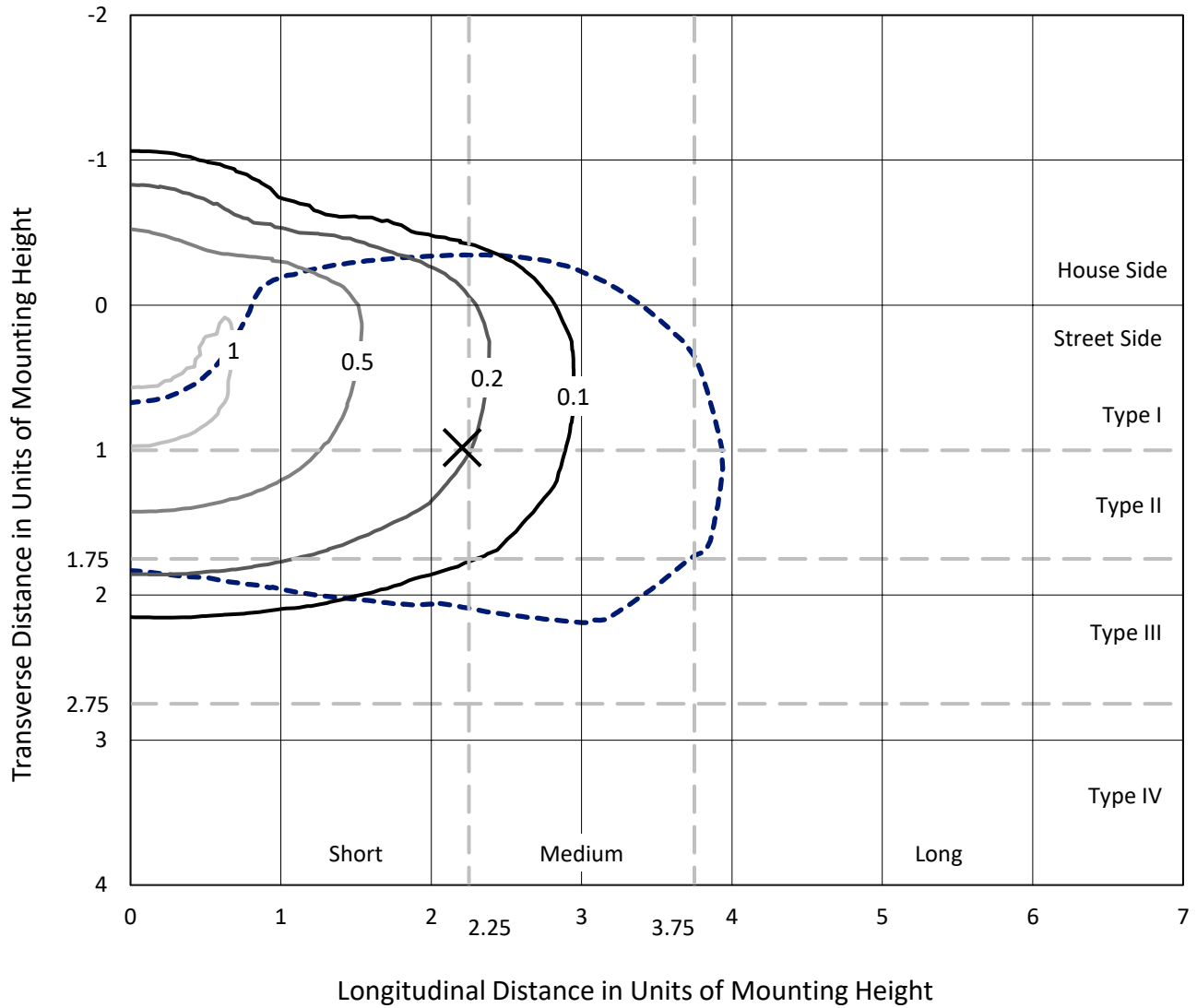
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

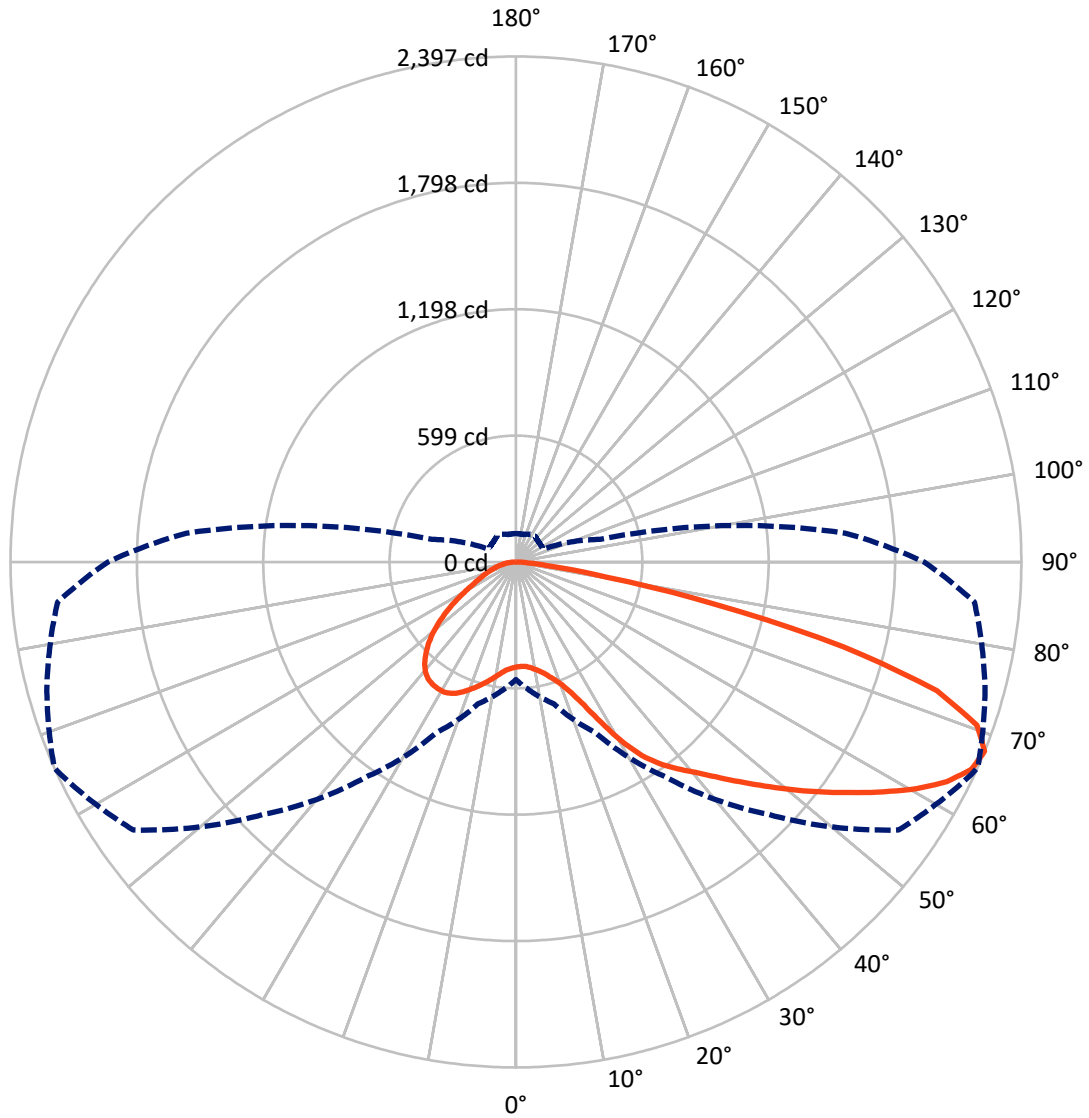
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1116.4	0.0	1116.4
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	3373.6	0.0	3373.6
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	4490.0	0.0	4490.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.4	1.1
10°-20°	163.1	3.6
20°-30°	314.4	7.0
30°-40°	551.3	12.3
40°-50°	819.6	18.3
50°-60°	1038.9	23.1
60°-70°	1016.5	22.6
70°-80°	484.9	10.8
80°-90°	51.8	1.2
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°	4490.0	100.0
0°-180°	4490.0	100.0

**Coefficient of Utilization**



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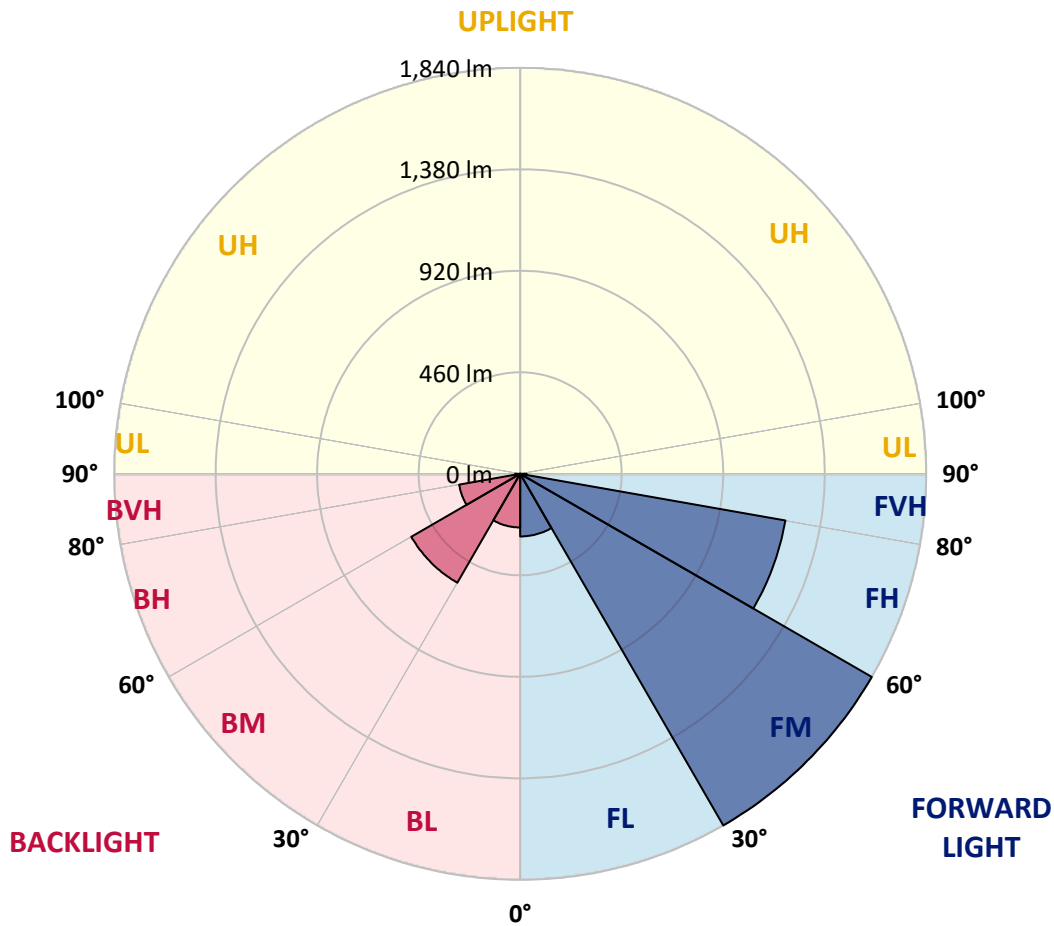
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.7	6.3			
FM (30°-60°)	1840.0	41.0			
FH (60°-80°)	1220.5	27.2			G1/1800
FVH (80°-90°)	29.4	0.7			G1/100
BL (0°-30°)	243.2	5.4	B1/500		
BM (30°-60°)	569.8	12.7	B1/1000		
BH (60°-80°)	280.9	6.3	B1/500		G1/500
BVH (80°-90°)	22.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
2.5°	492.8	495.6	494.9	493.8	493.5	494.0	494.7	495.4	495.2	496.3
5°	491.4	494.2	494.0	494.0	494.9	496.8	498.0	499.2	498.0	499.4
7.5°	492.3	494.5	495.4	496.3	498.7	502.2	505.1	507.7	506.3	507.9
10°	504.4	506.0	507.0	507.0	508.6	512.6	515.5	520.2	519.0	521.6
12.5°	526.3	528.0	528.0	527.0	528.2	530.8	531.7	536.9	534.8	539.0
15°	553.2	556.5	553.9	552.3	552.7	555.3	555.1	559.1	557.0	560.5
17.5°	582.9	587.2	582.9	582.7	581.7	584.6	584.8	588.4	584.6	587.2
20°	618.1	624.0	620.4	621.6	619.5	620.7	621.9	627.0	621.1	623.0
22.5°	667.6	674.7	670.9	675.4	674.0	673.0	672.8	682.0	672.8	673.5
25°	739.8	748.3	741.7	747.8	747.8	750.9	754.4	766.2	750.9	746.4
27.5°	846.4	854.9	842.0	845.7	844.5	852.1	848.3	877.6	861.1	853.7
30°	974.8	989.9	965.3	964.4	963.2	975.2	980.7	1000.0	983.3	975.9
32.5°	1113.5	1129.3	1100.0	1091.5	1087.1	1094.4	1089.9	1105.5	1093.9	1082.6
35°	1260.2	1275.8	1247.9	1231.4	1213.5	1198.2	1182.1	1186.1	1175.3	1158.1
37.5°	1398.9	1427.5	1398.0	1380.3	1347.3	1317.3	1272.5	1253.8	1243.7	1227.9
40°	1540.2	1556.5	1534.1	1519.0	1483.1	1436.2	1364.5	1325.1	1311.4	1296.1
42.5°	1644.3	1659.8	1647.8	1637.4	1609.4	1554.9	1462.2	1412.8	1393.0	1375.8
45°	1726.8	1738.4	1730.9	1734.6	1722.6	1669.8	1563.4	1507.0	1486.5	1465.5
47.5°	1760.1	1772.4	1784.4	1806.8	1827.3	1788.4	1672.1	1608.9	1587.2	1565.7
50°	1756.3	1768.8	1803.7	1851.4	1915.1	1902.1	1786.8	1717.4	1697.4	1672.8
52.5°	1726.1	1740.3	1785.1	1864.4	1965.8	1987.3	1903.5	1829.5	1810.6	1781.3
55°	1646.9	1655.4	1722.6	1834.9	1977.8	2046.7	2018.0	1948.8	1930.0	1889.1
57.5°	1499.9	1512.2	1610.1	1755.4	1947.7	2087.1	2118.4	2074.3	2056.2	1997.4
60°	1308.1	1327.7	1439.7	1621.9	1870.7	2086.8	2209.7	2197.7	2182.6	2104.1
62.5°	1091.1	1113.7	1221.5	1433.1	1736.3	2027.6	2266.8	2301.0	2293.3	2202.4
65°	837.9	853.5	960.9	1189.0	1527.0	1900.5	2273.4	2371.6	2373.0	2277.2
67.5°	557.9	602.7	695.9	892.2	1246.8	1692.6	2215.4	2383.1	2396.8	2302.9
70°	272.2	331.2	422.5	579.9	892.2	1373.9	2063.7	2288.3	2318.7	2227.9
72.5°	113.0	132.1	181.9	286.2	512.2	927.1	1758.9	2031.2	2087.5	1974.1
75°	76.2	82.6	104.0	146.7	233.3	457.2	1268.5	1514.5	1605.3	1490.9
77.5°	58.7	62.8	75.7	102.6	138.7	172.9	678.9	912.7	959.7	888.4
80°	46.2	49.3	56.6	74.8	98.4	92.5	231.4	413.5	440.7	369.7
82.5°	40.1	41.3	40.6	50.7	65.3	54.0	76.0	152.6	168.4	122.2
85°	29.0	32.3	33.7	31.4	34.7	27.4	31.1	54.0	59.4	53.1
87.5°	11.8	17.5	21.5	20.3	12.7	7.8	9.7	15.8	18.2	19.8
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°
498.0	0°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
498.2	2.5°	498.5	500.1	501.3	502.7	503.7	505.1	507.9	509.6	509.8	511.0
502.0	5°	503.0	505.3	507.9	511.7	515.9	519.5	524.9	528.7	530.1	531.3
511.2	7.5°	512.6	515.9	520.6	527.3	533.4	538.1	544.7	549.2	553.7	555.3
525.8	10°	527.0	531.7	538.6	547.5	554.1	560.3	567.1	570.9	575.4	577.3
543.3	12.5°	544.9	549.9	558.9	571.4	577.5	581.7	584.1	583.2	584.1	585.8
564.3	15°	565.5	570.9	581.0	594.5	598.7	595.0	589.8	585.1	584.3	584.8
589.8	17.5°	589.8	593.8	605.6	616.9	613.8	598.3	586.9	579.4	575.6	574.4
622.3	20°	623.7	623.7	633.4	640.5	620.0	593.5	575.8	563.6	555.8	552.5
666.7	22.5°	665.0	661.2	667.4	662.4	618.8	580.3	555.8	534.6	522.8	518.1
728.7	25°	717.4	712.9	711.3	680.6	610.3	559.3	519.5	493.8	483.4	480.8
818.1	27.5°	796.4	785.1	763.6	690.5	594.7	526.3	477.0	453.2	447.3	447.5
933.0	30°	901.6	879.0	826.4	692.2	569.2	479.6	433.6	416.6	413.8	415.0
1029.5	32.5°	999.1	977.6	890.6	684.6	530.1	433.8	394.7	383.3	379.1	380.5
1103.1	35°	1075.5	1069.6	950.0	674.0	482.0	390.9	359.8	350.1	341.8	339.9
1172.5	37.5°	1147.7	1145.3	994.6	659.1	434.3	360.5	331.7	318.9	306.9	300.3
1249.1	40°	1227.0	1224.6	1023.8	636.2	392.1	334.0	306.4	289.7	274.8	262.8
1335.9	42.5°	1316.1	1302.2	1037.8	603.5	356.2	311.6	285.9	263.3	243.7	232.6
1434.1	45°	1413.6	1382.2	1037.5	561.7	326.0	291.1	264.0	231.9	213.7	203.4
1534.8	47.5°	1516.9	1458.6	1024.8	515.5	296.8	268.5	230.0	205.5	193.4	187.1
1644.3	50°	1623.5	1530.1	1003.1	462.4	266.8	242.7	208.8	192.0	182.8	176.9
1752.8	52.5°	1723.8	1595.0	976.9	402.2	236.4	217.7	199.3	186.4	176.7	170.1
1858.0	55°	1817.0	1650.9	939.9	340.7	211.6	201.0	194.9	184.0	172.9	165.1
1964.9	57.5°	1899.8	1687.2	875.9	282.9	193.9	189.4	190.1	180.0	167.3	160.7
2070.1	60°	1968.6	1713.9	781.3	229.3	179.5	178.1	182.8	172.4	157.6	150.0
2159.0	62.5°	2009.9	1713.4	665.3	187.8	167.3	167.7	173.2	163.0	147.9	140.8
2205.5	65°	2006.4	1671.4	537.9	160.7	155.5	155.9	163.0	152.6	139.9	135.6
2182.1	67.5°	1935.4	1569.0	412.6	143.0	142.5	144.6	152.9	145.6	134.9	134.5
2043.0	70°	1743.1	1356.5	297.2	128.8	129.0	132.1	143.0	141.1	132.3	133.3
1717.6	72.5°	1397.8	1034.2	199.6	113.9	114.2	119.1	133.5	137.5	129.7	142.3
1218.7	75°	930.9	645.0	128.3	98.1	98.4	104.7	125.3	130.7	122.7	141.8
634.1	77.5°	447.3	289.9	92.9	82.6	82.6	88.5	108.3	117.0	104.5	110.2
203.8	80°	154.5	109.0	73.1	66.5	65.1	69.1	91.3	101.4	90.1	83.0
66.5	82.5°	60.9	56.6	58.7	51.7	46.9	49.5	71.0	83.7	66.3	59.9
37.5	85°	34.9	36.8	41.5	34.2	27.1	30.4	52.1	60.2	50.0	44.1
12.3	87.5°	9.4	13.0	19.1	17.7	12.3	13.0	24.8	33.3	28.8	22.2
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>
498.0
510.7
531.0
555.6
578.2
586.2
586.5
576.1
551.8
517.3
481.3
448.2
419.0
382.4
341.4
300.5
264.0
233.3
202.9
185.7
174.8
167.3
162.1
156.4
146.7
138.7
135.4
135.2
133.1
144.1
143.0
101.0
77.8
59.7
45.1
22.9
0.0

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