

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: P938782

Luminaire Tested: **GALN-SB1A-827-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-827-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

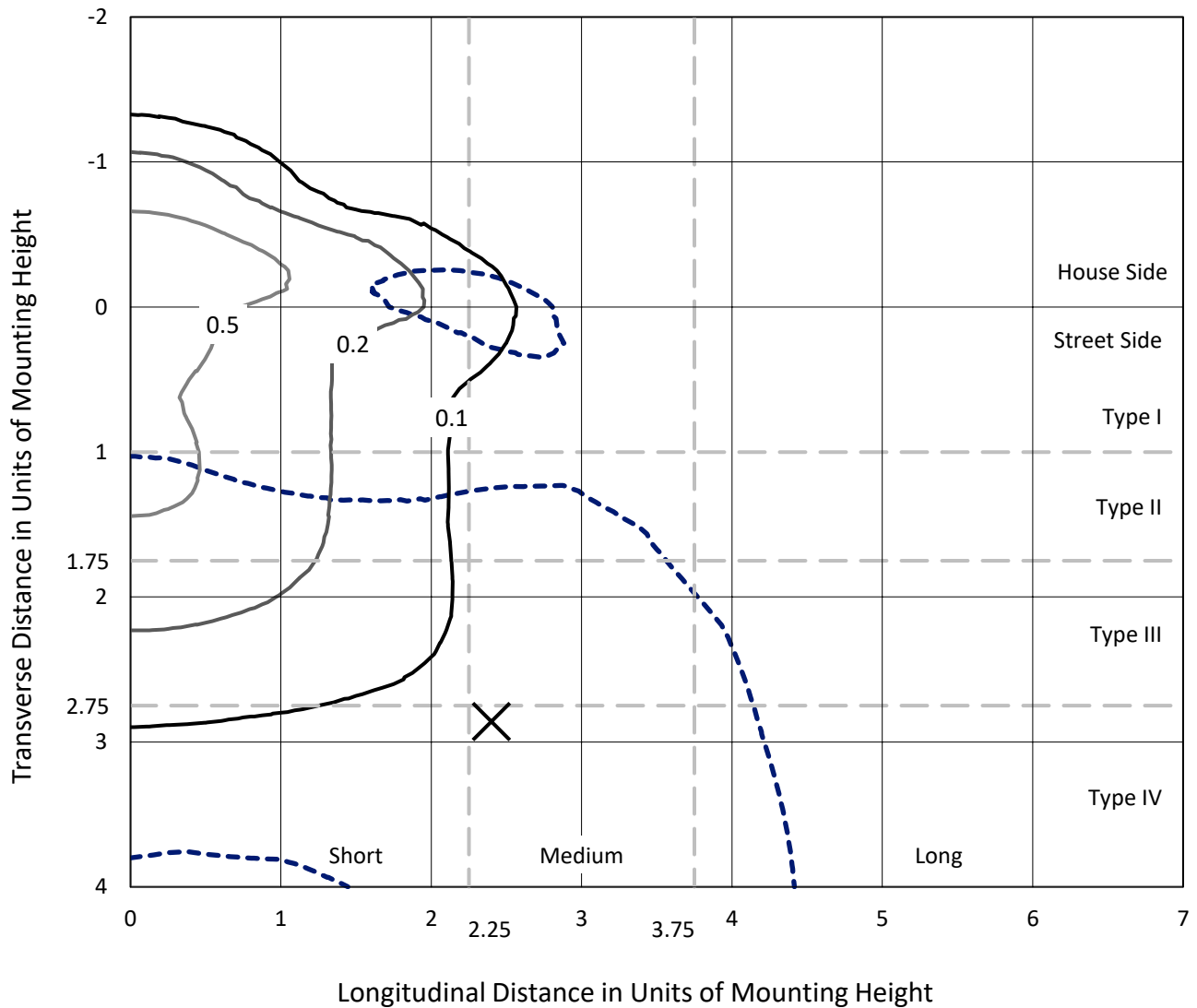
Lumens per Lamp: N/A  
Luminaire Lumens: 3868 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

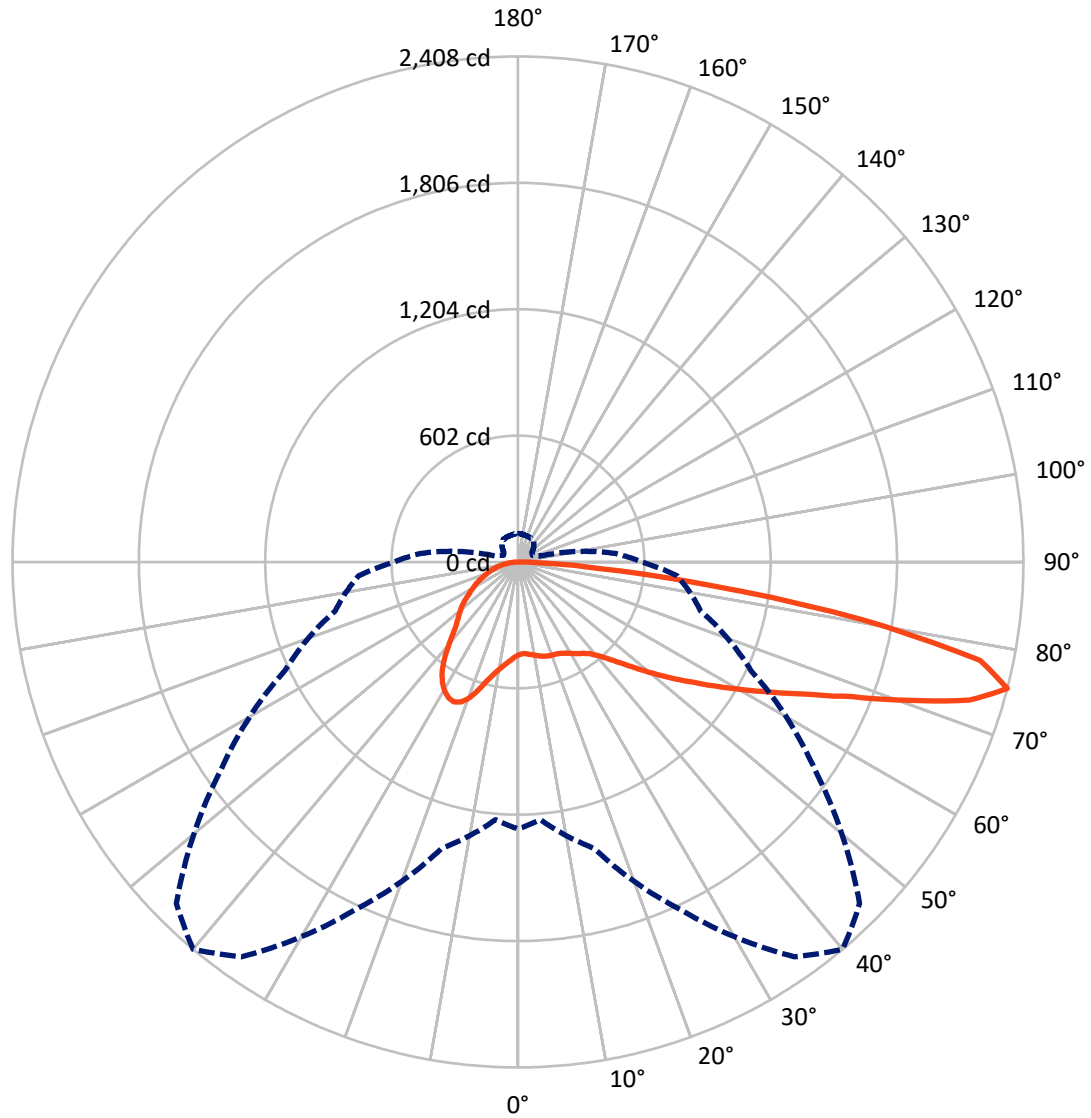
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1198.4	0.0	1198.4
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	2669.6	0.0	2669.6
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	3868.0	0.0	3868.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.2	1.1
10°-20°	148.2	3.8
20°-30°	270.7	7.0
30°-40°	383.9	9.9
40°-50°	518.3	13.4
50°-60°	697.3	18.0
60°-70°	885.1	22.9
70°-80°	803.3	20.8
80°-90°	117.1	3.0
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°	3868.0	100.0
0°-180°	3868.0	100.0

**Coefficient of Utilization**



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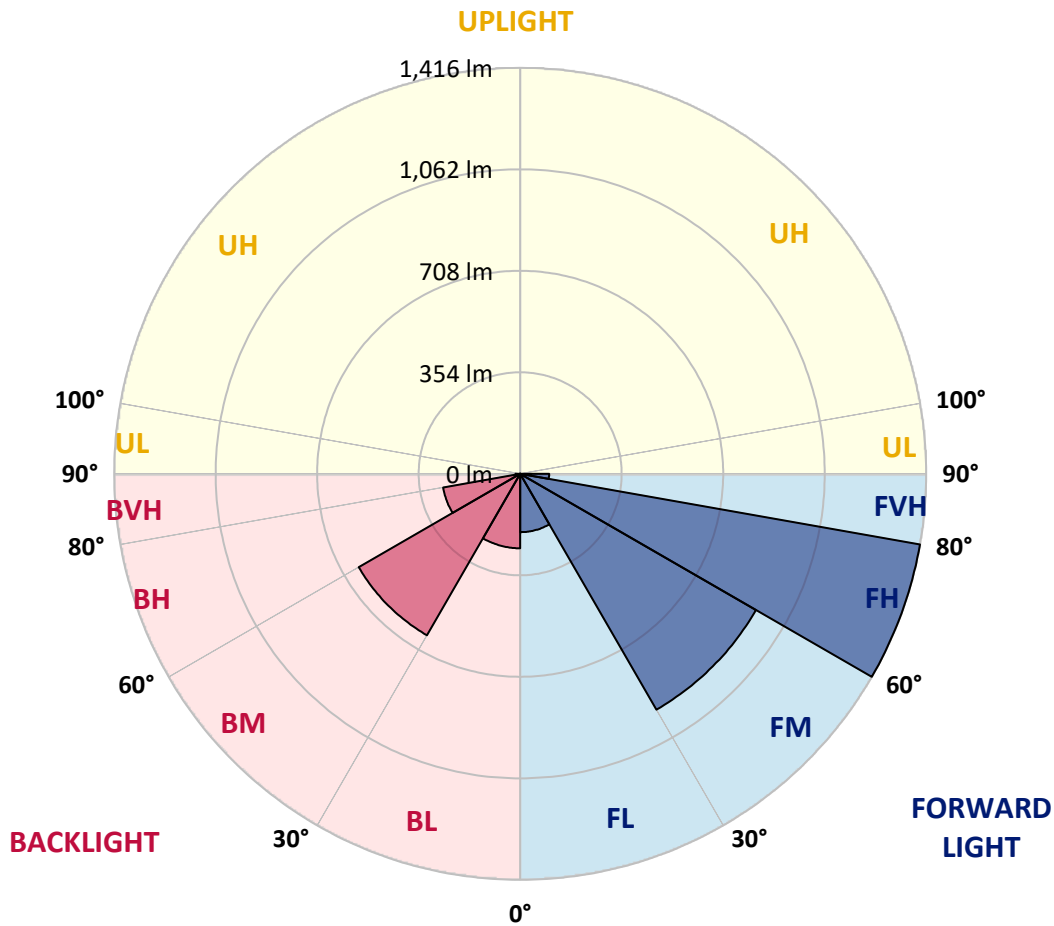
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	203.5	5.3			
FM (30°-60°)	949.5	24.5			
FH (60°-80°)	1415.6	36.6			G1/1800
FVH (80°-90°)	101.0	2.6			G2/225
BL (0°-30°)	259.6	6.7	B1/500		
BM (30°-60°)	650.0	16.8	B1/1000		
BH (60°-80°)	272.7	7.0	B1/500		G1/500
BVH (80°-90°)	16.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3
2.5°	435.5	438.0	437.4	436.6	436.6	436.8	436.6	438.0	439.4	440.9
5°	440.1	442.5	441.3	440.3	439.4	439.2	438.6	438.4	439.2	441.1
7.5°	448.9	451.3	449.5	447.6	446.0	445.2	444.4	443.1	442.5	443.5
10°	458.7	461.2	458.9	455.6	453.0	452.0	451.1	449.9	449.1	449.7
12.5°	468.6	471.0	468.0	463.4	460.0	459.3	458.3	457.9	457.7	457.5
15°	477.8	479.9	476.0	470.6	466.9	465.9	464.9	465.5	466.5	467.7
17.5°	485.0	487.0	481.3	474.3	470.8	470.4	469.8	471.9	474.7	477.8
20°	491.5	493.6	486.2	476.8	472.7	472.7	472.9	477.2	481.3	485.8
22.5°	500.8	502.4	493.4	480.5	474.5	474.9	476.6	480.9	486.0	492.2
25°	514.5	515.8	504.7	487.4	480.7	481.9	483.3	485.4	490.3	497.5
27.5°	536.7	537.7	523.1	499.8	489.5	491.5	493.6	492.2	494.4	500.6
30°	567.9	568.5	550.0	519.0	504.5	505.5	505.9	500.0	495.7	500.6
32.5°	604.8	604.6	582.6	542.4	521.5	520.5	517.0	505.3	495.2	499.5
35°	662.0	659.8	631.5	575.3	540.8	534.4	526.2	511.2	497.3	498.5
37.5°	756.8	749.8	710.7	629.0	569.5	553.3	541.2	520.9	501.8	498.1
40°	863.7	854.9	811.8	702.7	612.6	586.5	567.0	534.6	509.2	500.0
42.5°	990.5	978.0	931.6	789.4	667.2	629.4	600.1	552.1	520.1	505.9
45°	1146.2	1129.6	1063.9	887.3	735.9	685.6	646.4	578.5	536.7	517.4
47.5°	1303.5	1307.6	1214.3	999.3	818.4	755.0	704.5	618.3	560.9	535.9
50°	1470.7	1473.6	1363.9	1123.4	911.9	833.3	769.7	662.9	594.5	562.1
52.5°	1601.2	1601.6	1499.7	1253.3	1009.4	919.5	840.1	713.7	633.5	597.0
55°	1682.9	1681.8	1594.9	1376.2	1121.4	1010.0	918.1	771.6	681.1	638.0
57.5°	1742.2	1739.1	1660.5	1481.8	1240.8	1116.9	1006.3	837.2	737.3	686.9
60°	1764.7	1762.9	1705.0	1573.1	1366.3	1235.0	1108.0	910.7	801.1	744.5
62.5°	1773.3	1776.8	1748.7	1661.5	1500.7	1365.9	1219.8	998.5	872.9	809.7
65°	1803.7	1810.1	1804.3	1777.2	1652.5	1519.2	1368.2	1102.9	951.3	879.7
67.5°	1863.8	1870.2	1872.6	1915.7	1838.0	1710.2	1553.2	1233.0	1043.0	952.3
70°	1862.4	1860.5	1904.0	2025.9	2070.2	1974.6	1802.7	1393.0	1152.3	1012.6
72.5°	1695.2	1680.4	1783.2	2024.7	2263.5	2250.7	2107.3	1599.4	1246.7	1020.0
75°	1271.7	1232.4	1413.9	1824.6	2295.7	2407.5	2301.0	1727.4	1224.4	901.2
77.5°	543.9	504.3	718.2	1350.7	2054.6	2250.5	2123.3	1507.1	977.4	596.0
80°	142.4	142.2	217.1	612.4	1397.3	1661.9	1458.0	973.2	558.4	212.9
82.5°	58.9	57.4	79.8	238.2	682.8	932.6	761.1	434.1	201.7	57.6
85°	22.0	21.7	38.8	82.3	240.9	384.7	278.4	111.0	50.3	28.1
87.5°	6.2	5.9	8.4	28.5	58.7	89.0	47.6	18.3	14.2	11.1
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°
442.3	0°	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3
443.1	2.5°	443.7	444.8	446.6	448.1	449.9	452.0	454.8	456.7	458.5	459.7
444.2	5°	445.6	447.9	452.6	457.3	462.8	468.0	473.9	478.2	481.7	482.7
447.9	7.5°	449.7	453.4	461.4	469.4	478.2	486.6	495.2	502.6	508.6	510.8
454.4	10°	456.9	461.8	473.1	484.4	496.1	509.0	520.1	530.7	539.1	542.6
462.2	12.5°	465.9	472.1	486.8	502.4	518.6	536.5	550.8	564.0	574.4	579.1
473.1	15°	477.6	485.6	504.5	525.4	549.2	574.0	592.3	606.8	618.5	624.3
484.4	17.5°	490.3	501.0	524.8	556.4	590.4	623.1	644.4	655.1	667.2	672.7
494.8	20°	502.6	515.8	549.8	595.8	641.1	675.8	693.0	695.9	696.7	697.3
504.7	22.5°	515.3	533.0	581.2	645.4	694.0	718.0	720.5	708.2	691.0	683.0
514.3	25°	529.3	552.7	622.2	700.2	739.6	742.5	723.6	693.6	661.0	646.0
522.1	27.5°	542.8	575.5	671.5	752.5	772.4	747.2	706.5	664.1	624.7	608.9
527.7	30°	556.4	601.5	725.8	798.3	787.4	735.5	679.7	632.3	592.7	576.1
532.6	32.5°	570.1	631.9	788.4	831.3	784.7	710.7	646.2	596.6	561.7	544.3
536.9	35°	585.7	669.2	847.7	849.3	766.9	674.1	602.1	553.9	523.6	509.6
542.0	37.5°	606.0	716.6	900.0	853.8	735.7	620.6	547.3	503.4	478.4	472.1
549.6	40°	631.3	773.6	940.0	846.7	689.5	555.6	487.4	452.4	438.2	439.6
559.9	42.5°	664.1	837.4	968.1	828.2	625.3	488.5	434.9	419.3	426.1	431.8
575.3	45°	706.8	903.7	985.6	796.8	552.7	431.6	403.9	407.6	412.8	413.4
600.1	47.5°	761.3	970.8	997.0	749.4	478.6	391.6	384.3	385.1	384.0	379.7
637.2	50°	829.4	1036.0	1007.3	686.6	415.6	366.6	356.8	353.9	339.7	325.8
686.6	52.5°	907.0	1095.9	1011.6	608.7	366.6	345.7	329.7	311.6	285.2	280.9
748.8	55°	993.1	1151.3	1000.5	512.9	325.4	318.8	294.6	272.9	270.0	266.3
830.7	57.5°	1096.1	1211.0	978.0	406.0	283.1	287.4	263.8	266.3	261.2	255.4
935.9	60°	1208.8	1272.8	938.4	308.6	239.4	248.2	255.8	255.6	254.2	249.5
1046.9	62.5°	1310.1	1313.4	860.4	236.3	201.1	217.9	238.6	238.4	237.2	234.5
1162.8	65°	1370.4	1307.2	730.3	186.1	169.5	192.8	215.2	216.8	217.1	216.8
1250.0	67.5°	1359.8	1235.2	551.9	148.1	143.4	167.4	192.0	194.3	195.9	196.3
1261.1	70°	1239.1	1077.1	359.8	118.2	120.2	145.0	170.1	172.3	173.8	175.4
1094.3	72.5°	965.9	791.9	206.0	95.6	99.9	125.8	148.3	151.0	151.8	154.9
761.5	75°	588.6	465.7	111.2	75.3	82.1	107.5	126.8	129.9	131.3	135.0
374.0	77.5°	279.8	201.7	63.4	58.7	66.1	87.8	107.1	110.6	106.7	108.7
103.2	80°	94.6	74.9	40.0	44.7	50.5	68.5	85.8	89.2	81.0	80.6
34.3	82.5°	33.0	30.4	25.4	29.7	32.6	49.0	64.8	69.3	60.3	60.1
15.4	85°	12.9	12.3	14.2	16.2	19.5	30.2	42.7	44.9	37.1	30.0
4.5	87.5°	2.7	2.9	3.5	3.7	5.9	10.5	15.4	18.9	15.0	12.7
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>
442.3
458.9
483.1
511.0
542.8
579.1
623.9
672.5
699.0
685.2
648.3
610.7
577.9
546.5
512.7
476.6
444.6
437.2
417.5
383.0
327.6
282.3
266.9
254.4
247.8
233.5
216.8
196.7
176.2
156.1
135.4
107.1
79.8
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