

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: P938812

Luminaire Tested: **GALN-SB1A-840-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938812  
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-840-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

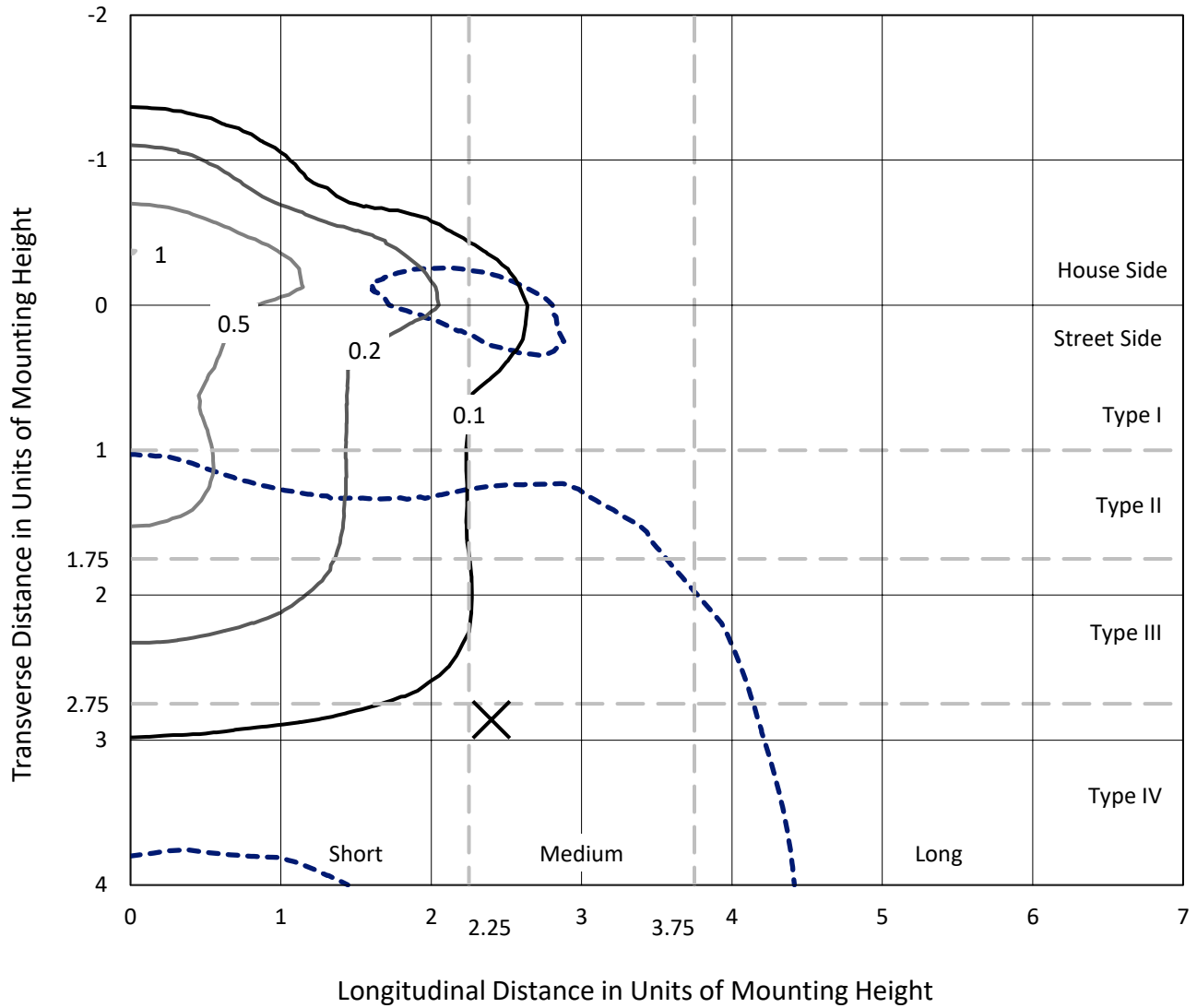
Lumens per Lamp: N/A  
Luminaire Lumens: 4255 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

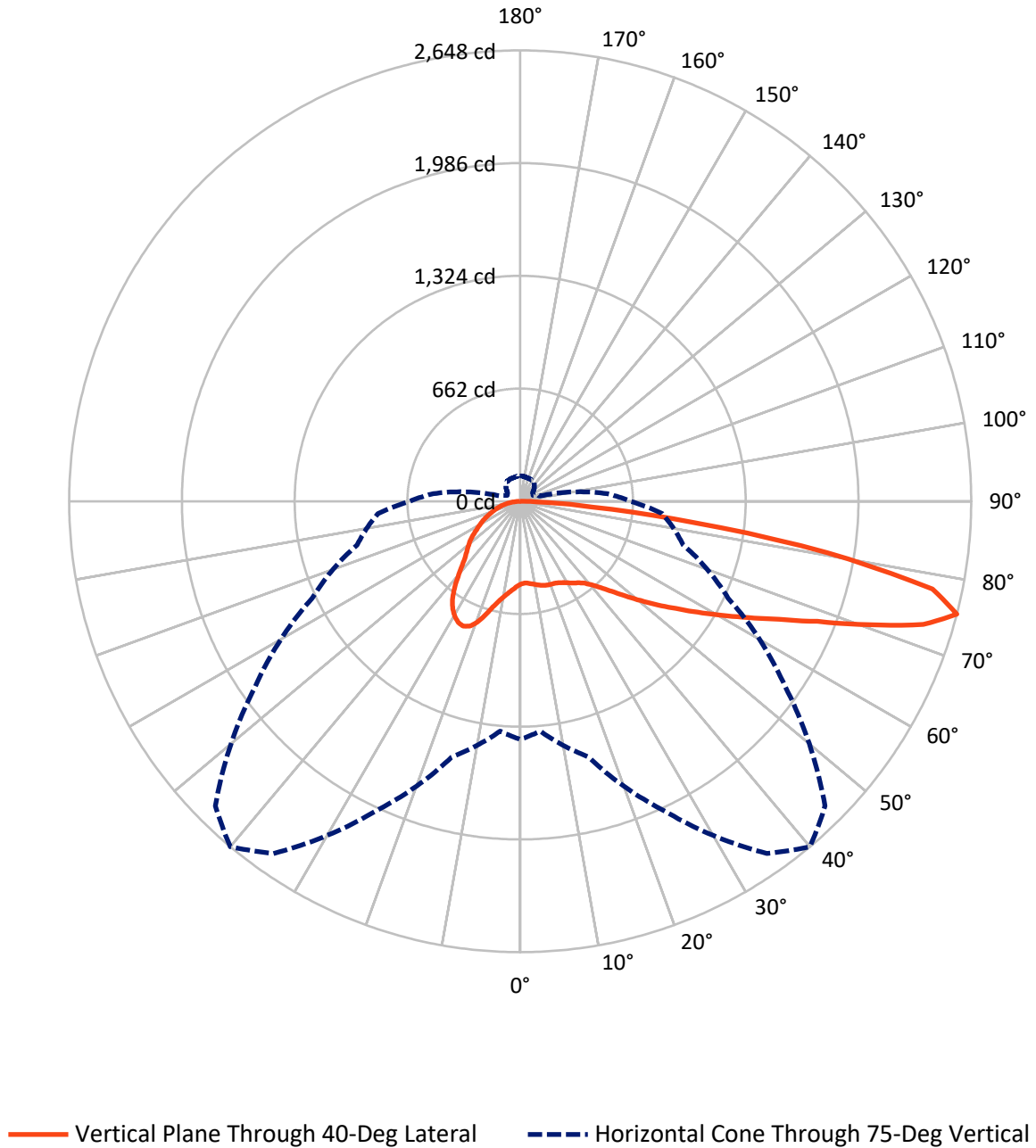
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1318.3	0.0	1318.3
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	2936.7	0.0	2936.7
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	4255.0	0.0	4255.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.6	1.1
10°-20°	163.1	3.8
20°-30°	297.7	7.0
30°-40°	422.3	9.9
40°-50°	570.2	13.4
50°-60°	767.1	18.0
60°-70°	973.6	22.9
70°-80°	883.6	20.8
80°-90°	128.8	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°	4255.0	100.0
0°-180°	4255.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P938812

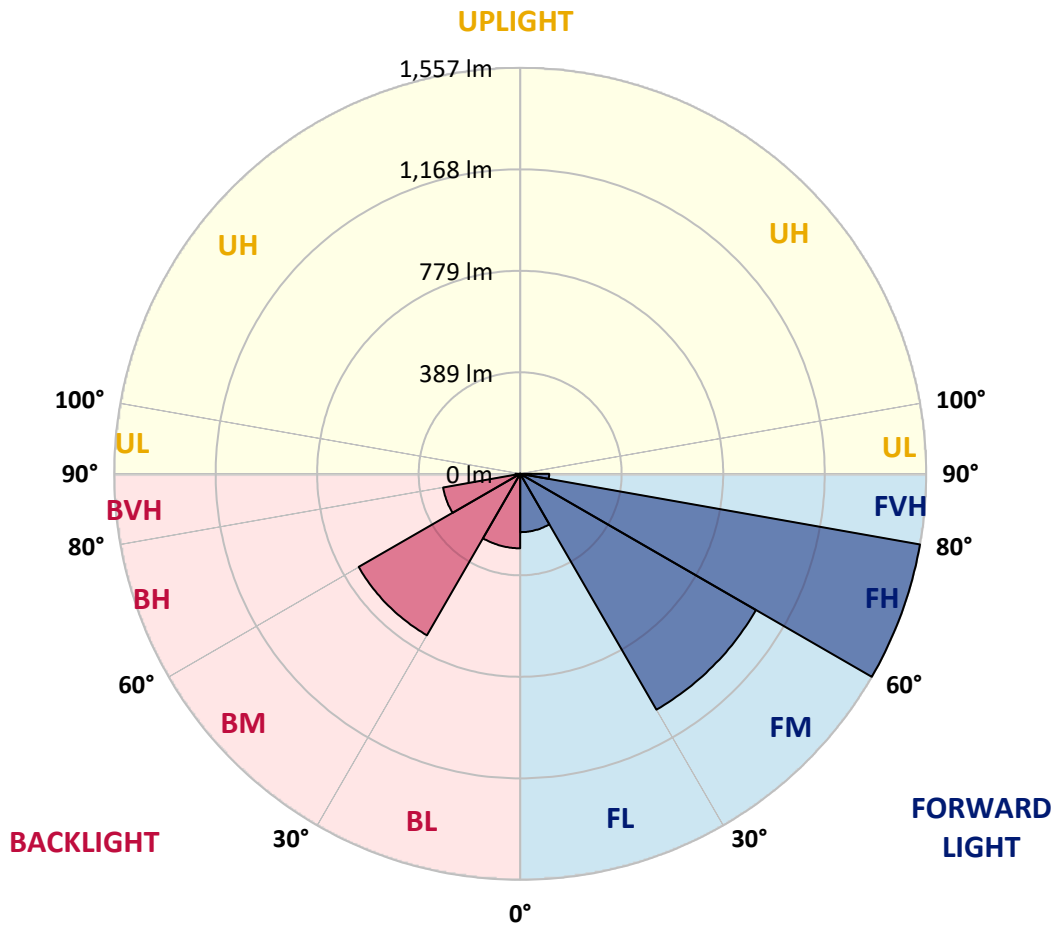
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	223.8	5.3			
FM (30°-60°)	1044.5	24.5			
FH (60°-80°)	1557.3	36.6			G1/1800
FVH (80°-90°)	111.1	2.6			G2/225
BL (0°-30°)	285.6	6.7	B1/500		
BM (30°-60°)	715.1	16.8	B1/1000		
BH (60°-80°)	300.0	7.0	B1/500		G1/500
BVH (80°-90°)	17.7	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°	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6
2.5°	479.1	481.8	481.1	480.2	480.2	480.5	480.2	481.8	483.4	485.0
5°	484.1	486.8	485.4	484.3	483.4	483.2	482.5	482.3	483.2	485.2
7.5°	493.8	496.5	494.5	492.4	490.6	489.7	488.8	487.5	486.8	487.9
10°	504.6	507.3	504.8	501.2	498.3	497.2	496.3	494.9	494.0	494.7
12.5°	515.5	518.2	514.8	509.8	506.0	505.3	504.2	503.7	503.5	503.3
15°	525.6	527.9	523.6	517.7	513.6	512.5	511.4	512.1	513.2	514.5
17.5°	533.5	535.8	529.4	521.8	517.9	517.5	516.8	519.1	522.2	525.6
20°	540.7	543.0	534.9	524.5	520.0	520.0	520.2	524.9	529.4	534.4
22.5°	550.9	552.7	542.8	528.5	522.0	522.4	524.3	529.0	534.6	541.4
25°	566.0	567.4	555.2	536.2	528.8	530.1	531.7	534.0	539.4	547.3
27.5°	590.4	591.5	575.5	549.8	538.5	540.7	543.0	541.4	543.9	550.7
30°	624.7	625.4	605.0	571.0	554.9	556.1	556.5	550.0	545.2	550.7
32.5°	665.3	665.1	640.9	596.7	573.7	572.5	568.7	555.8	544.8	549.5
35°	728.3	725.8	694.6	632.8	594.9	587.9	578.9	562.4	547.0	548.4
37.5°	832.5	824.9	781.8	691.9	626.5	608.7	595.3	573.0	552.0	547.9
40°	950.1	940.4	893.0	773.0	673.9	645.2	623.8	588.1	560.1	550.0
42.5°	1089.6	1075.8	1024.8	868.4	733.9	692.4	660.1	607.3	572.1	556.5
45°	1260.9	1242.6	1170.4	976.1	809.5	754.2	711.1	636.4	590.4	569.2
47.5°	1434.0	1438.5	1335.8	1099.3	900.2	830.5	775.0	680.2	617.0	589.5
50°	1617.9	1621.1	1500.3	1235.8	1003.1	916.7	846.7	729.2	654.0	618.4
52.5°	1761.4	1761.9	1649.7	1378.7	1110.3	1011.5	924.2	785.1	696.9	656.7
55°	1851.2	1850.1	1754.4	1513.9	1233.6	1111.0	1009.9	848.8	749.3	701.9
57.5°	1916.5	1913.1	1826.6	1630.1	1364.9	1228.6	1107.0	921.0	811.1	755.6
60°	1941.3	1939.3	1875.6	1730.5	1503.0	1358.6	1218.9	1001.8	881.3	819.0
62.5°	1950.8	1954.6	1923.7	1827.8	1650.8	1502.6	1341.9	1098.4	960.3	890.8
65°	1984.2	1991.2	1984.9	1955.1	1817.8	1671.2	1505.1	1213.3	1046.5	967.7
67.5°	2050.3	2057.3	2060.0	2107.4	2021.9	1881.3	1708.6	1356.3	1147.4	1047.6
70°	2048.7	2046.7	2094.5	2228.6	2277.3	2172.2	1983.0	1532.4	1267.6	1114.0
72.5°	1864.8	1848.5	1961.6	2227.2	2489.9	2475.9	2318.2	1759.4	1371.5	1122.1
75°	1399.0	1355.7	1555.4	2007.2	2525.4	2648.3	2531.2	1900.2	1346.9	991.4
77.5°	598.3	554.7	790.1	1485.9	2260.2	2475.7	2335.8	1657.8	1075.1	655.6
80°	156.6	156.4	238.8	673.7	1537.1	1828.2	1603.9	1070.6	614.3	234.3
82.5°	64.8	63.2	87.8	262.0	751.1	1025.9	837.3	477.5	221.8	63.4
85°	24.1	23.9	42.7	90.5	264.9	423.1	306.2	122.1	55.3	30.9
87.5°	6.8	6.5	9.3	31.4	64.5	97.9	52.4	20.1	15.6	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938812  
 CATALOG NUMBER: GALN-SB1A-840-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
486.6	0°	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6
487.5	2.5°	488.1	489.3	491.3	492.9	494.9	497.2	500.3	502.4	504.4	505.7
488.6	5°	490.2	492.7	497.8	503.0	509.1	514.8	521.3	526.1	529.9	531.0
492.7	7.5°	494.7	498.8	507.6	516.4	526.1	535.3	544.8	552.9	559.5	561.9
499.9	10°	502.6	508.0	520.4	532.8	545.7	559.9	572.1	583.8	593.1	596.9
508.5	12.5°	512.5	519.3	535.5	552.7	570.5	590.2	605.9	620.4	631.9	637.1
520.4	15°	525.4	534.2	554.9	578.0	604.1	631.5	651.5	667.6	680.4	686.7
532.8	17.5°	539.4	551.1	577.3	612.0	649.5	685.4	708.9	720.6	733.9	740.0
544.3	20°	552.9	567.4	604.8	655.4	705.2	743.4	762.3	765.5	766.4	767.1
555.2	22.5°	566.9	586.3	639.3	710.0	763.5	789.9	792.6	779.0	760.1	751.3
565.8	25°	582.3	608.0	684.5	770.2	813.6	816.7	796.0	763.0	727.1	710.7
574.4	27.5°	597.1	633.0	738.6	827.8	849.7	821.9	777.2	730.5	687.2	669.8
580.4	30°	612.0	661.7	798.5	878.1	866.2	809.1	747.7	695.5	652.0	633.7
585.9	32.5°	627.2	695.1	867.3	914.5	863.2	781.8	710.9	656.3	617.9	598.7
590.6	35°	644.3	736.2	932.5	934.3	843.6	741.6	662.4	609.3	575.9	560.6
596.2	37.5°	666.7	788.3	990.1	939.3	809.3	682.7	602.1	553.8	526.3	519.3
604.6	40°	694.4	851.0	1034.1	931.4	758.5	611.1	536.2	497.6	482.1	483.6
615.9	42.5°	730.5	921.2	1065.0	911.1	687.9	537.3	478.4	461.3	468.7	475.1
632.8	45°	777.5	994.1	1084.2	876.5	608.0	474.8	444.4	448.4	454.1	454.7
660.1	47.5°	837.5	1067.9	1096.8	824.4	526.5	430.8	422.7	423.6	422.5	417.7
701.0	50°	912.4	1139.7	1108.1	755.3	457.2	403.3	392.5	389.3	373.7	358.4
755.3	52.5°	997.7	1205.6	1112.8	669.6	403.3	380.3	362.7	342.8	313.7	309.0
823.7	55°	1092.5	1266.5	1100.6	564.2	357.9	350.7	324.1	300.2	297.0	292.9
913.8	57.5°	1205.8	1332.2	1075.8	446.6	311.4	316.2	290.2	292.9	287.3	281.0
1029.5	60°	1329.7	1400.1	1032.3	339.4	263.4	273.1	281.4	281.2	279.6	274.4
1151.6	62.5°	1441.2	1444.8	946.5	260.0	221.2	239.7	262.5	262.2	260.9	258.0
1279.2	65°	1507.5	1438.0	803.4	204.7	186.4	212.1	236.7	238.5	238.8	238.5
1375.1	67.5°	1495.8	1358.8	607.1	162.9	157.7	184.2	211.2	213.7	215.5	216.0
1387.3	70°	1363.1	1184.8	395.8	130.0	132.2	159.6	187.1	189.6	191.2	193.0
1203.8	72.5°	1062.5	871.1	226.6	105.2	109.9	138.3	163.2	166.1	167.0	170.4
837.7	75°	647.5	512.3	122.3	82.8	90.3	118.3	139.5	142.9	144.4	148.5
411.4	77.5°	307.8	221.8	69.7	64.5	72.7	96.6	117.8	121.6	117.4	119.6
113.5	80°	104.0	82.4	44.0	49.2	55.5	75.4	94.3	98.2	89.1	88.7
37.7	82.5°	36.3	33.4	28.0	32.7	35.9	53.9	71.3	76.3	66.3	66.1
16.9	85°	14.2	13.5	15.6	17.8	21.4	33.2	46.9	49.4	40.8	32.9
5.0	87.5°	2.9	3.2	3.8	4.1	6.5	11.5	16.9	20.8	16.5	14.0
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>
486.6
504.8
531.5
562.2
597.1
637.1
686.3
739.8
768.9
753.8
713.1
671.8
635.7
601.2
564.0
524.3
489.0
480.9
459.3
421.3
360.4
310.5
293.6
279.8
272.6
256.8
238.5
216.4
193.9
171.7
148.9
117.8
87.8
63.0
32.5
12.9
0.0

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