

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: P939202

Luminaire Tested: **GALN-SB1C-940-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939202  
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-SB1C-940-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

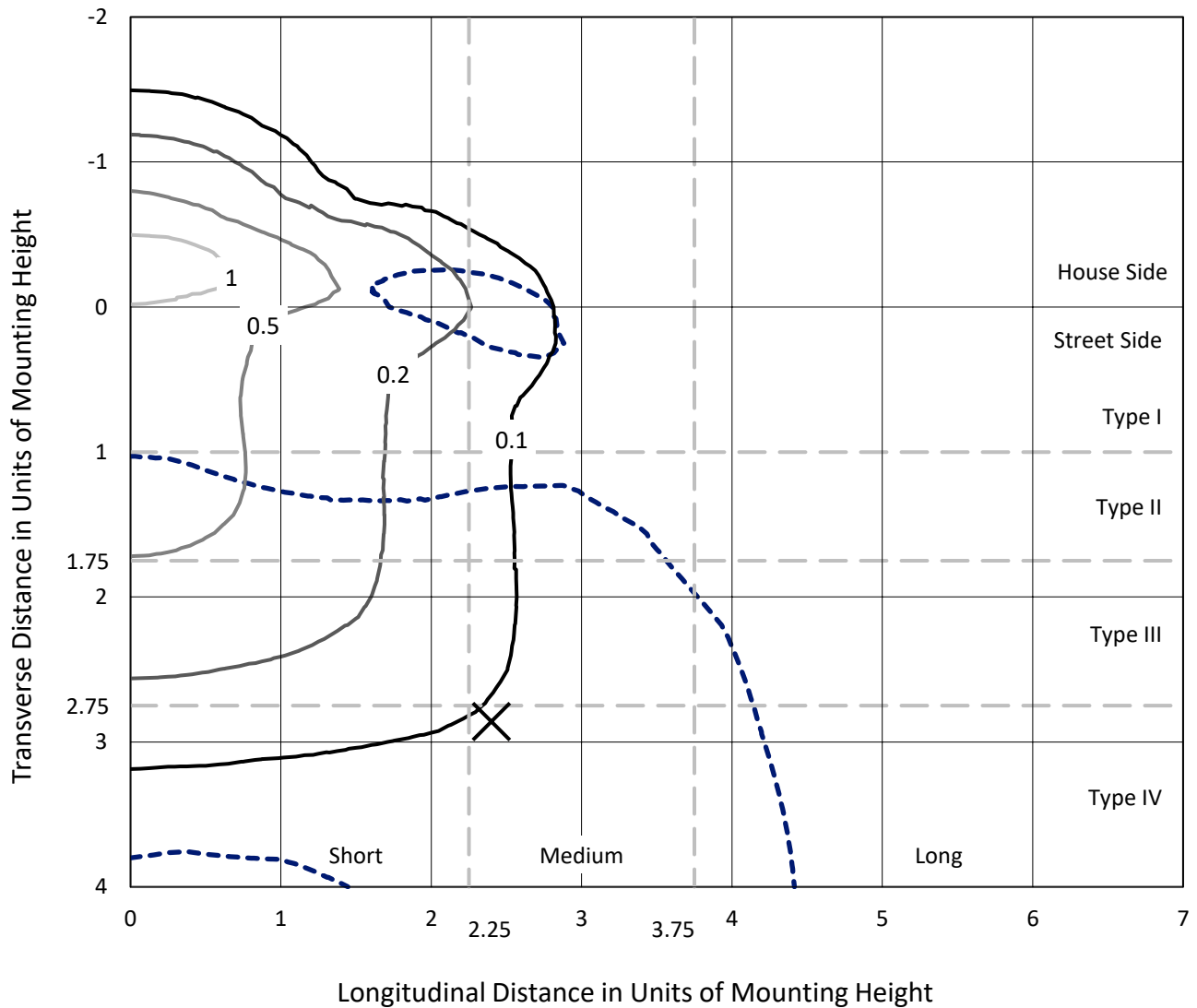
Lumens per Lamp: N/A  
Luminaire Lumens: 5381 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

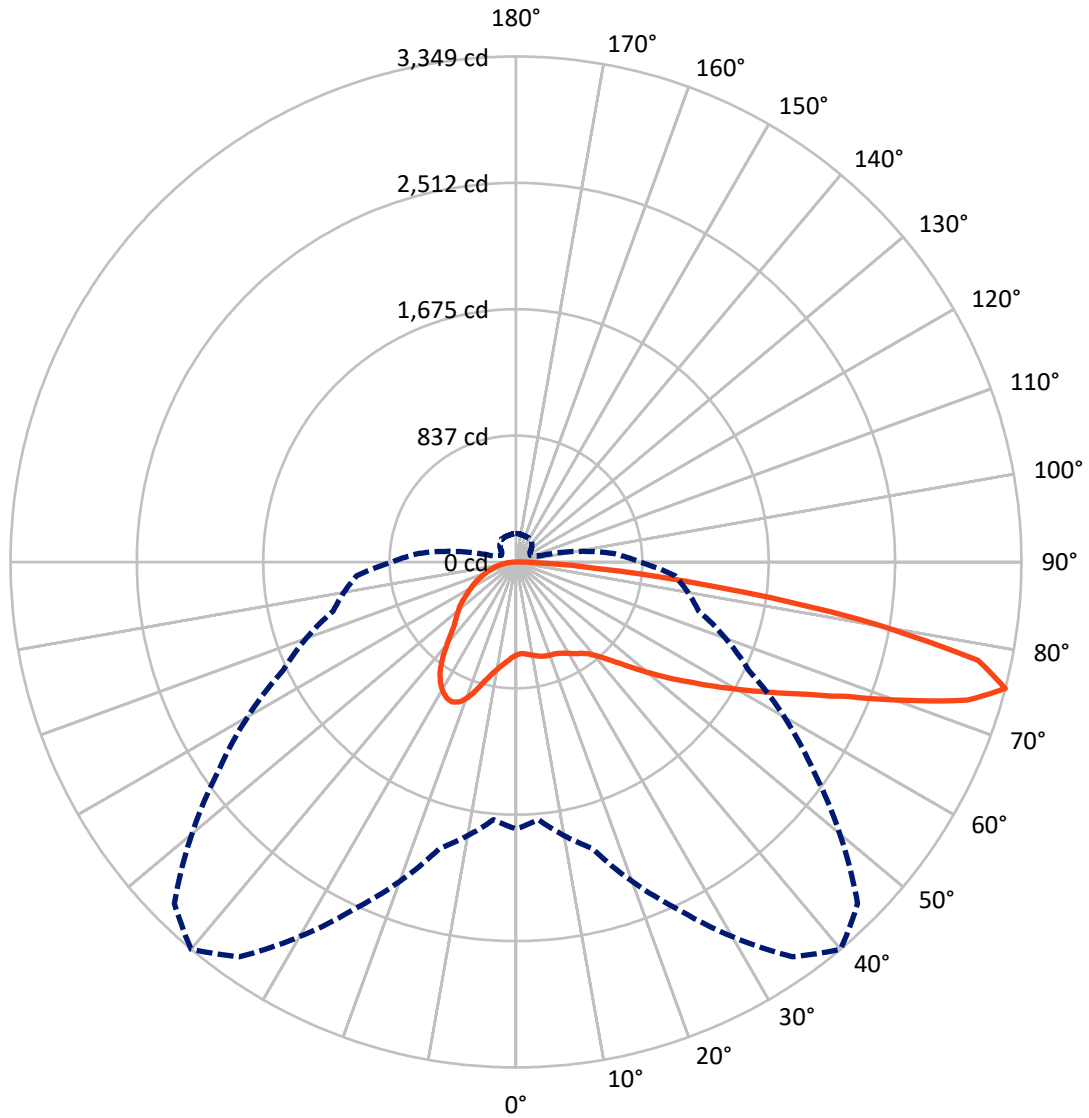
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	1667.2	0.0	1667.2
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	3713.8	0.0	3713.8
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	5381.0	0.0	5381.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.4	1.1
10°-20°	206.2	3.8
20°-30°	376.5	7.0
30°-40°	534.0	9.9
40°-50°	721.1	13.4
50°-60°	970.1	18.0
60°-70°	1231.3	22.9
70°-80°	1117.4	20.8
80°-90°	162.9	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°	5381.0	100.0
0°-180°	5381.0	100.0

**Coefficient of Utilization**



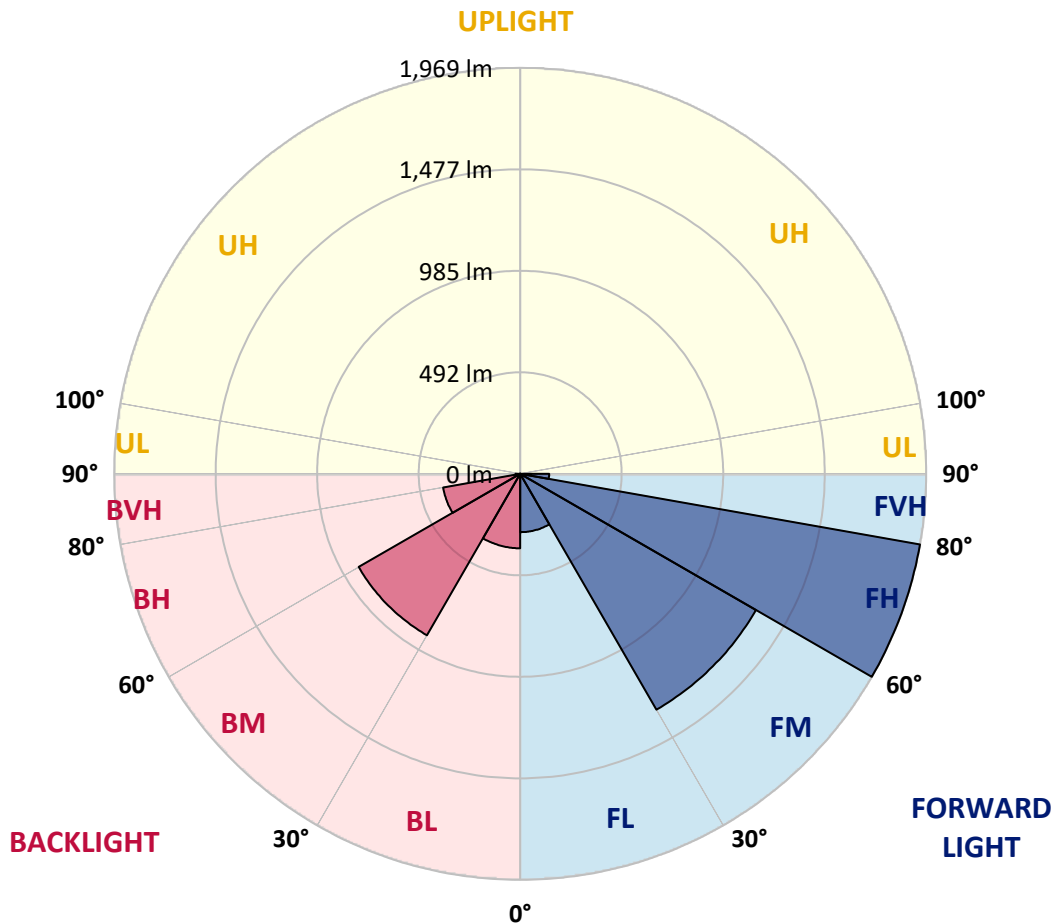
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.0	5.3			
FM (30°-60°)	1320.9	24.5			
FH (60°-80°)	1969.4	36.6			G2/5000
FVH (80°-90°)	140.5	2.6			G2/225
BL (0°-30°)	361.1	6.7	B1/500		
BM (30°-60°)	904.3	16.8	B1/1000		
BH (60°-80°)	379.3	7.0	B1/500		G1/500
BVH (80°-90°)	22.4	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°	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3
2.5°	605.9	609.3	608.5	607.3	607.3	607.6	607.3	609.3	611.3	613.3
5°	612.2	615.6	613.9	612.5	611.3	611.0	610.2	609.9	611.0	613.6
7.5°	624.5	627.9	625.3	622.7	620.5	619.3	618.2	616.5	615.6	617.0
10°	638.2	641.6	638.4	633.9	630.2	628.7	627.6	625.9	624.7	625.6
12.5°	651.9	655.3	651.0	644.7	639.9	639.0	637.6	637.0	636.7	636.4
15°	664.7	667.6	662.1	654.7	649.6	648.1	646.7	647.6	649.0	650.7
17.5°	674.7	677.5	669.6	659.8	655.0	654.4	653.6	656.4	660.4	664.7
20°	683.8	686.7	676.4	663.3	657.6	657.6	657.8	663.8	669.6	675.8
22.5°	696.7	698.9	686.4	668.4	660.1	660.7	663.0	669.0	676.1	684.7
25°	715.8	717.5	702.1	678.1	668.7	670.4	672.4	675.3	682.1	692.1
27.5°	746.6	748.0	727.8	695.2	681.0	683.8	686.7	684.7	687.8	696.4
30°	790.0	790.8	765.2	722.1	701.8	703.2	703.8	695.5	689.5	696.4
32.5°	841.4	841.1	810.5	754.6	725.5	724.1	719.2	702.9	689.0	695.0
35°	921.0	917.8	878.5	800.3	752.3	743.5	732.1	711.2	691.8	693.5
37.5°	1052.8	1043.1	988.6	875.0	792.3	769.7	752.9	724.6	698.1	693.0
40°	1201.5	1189.3	1129.3	977.5	852.2	816.0	788.8	743.8	708.4	695.5
42.5°	1377.9	1360.5	1296.0	1098.2	928.1	875.6	834.8	768.0	723.5	703.8
45°	1594.5	1571.4	1480.1	1234.4	1023.7	953.8	899.3	804.8	746.6	719.8
47.5°	1813.4	1819.1	1689.3	1390.2	1138.5	1050.3	980.1	860.2	780.3	745.5
50°	2046.0	2050.0	1897.3	1562.9	1268.6	1159.3	1070.8	922.1	827.1	782.0
52.5°	2227.6	2228.1	2086.3	1743.5	1404.2	1279.2	1168.7	992.9	881.3	830.5
55°	2341.1	2339.7	2218.7	1914.5	1560.0	1405.0	1277.2	1073.4	947.5	887.6
57.5°	2423.6	2419.3	2310.0	2061.5	1726.1	1553.7	1399.9	1164.7	1025.7	955.5
60°	2455.0	2452.5	2372.0	2188.5	1900.8	1718.1	1541.5	1266.9	1114.5	1035.7
62.5°	2467.0	2471.9	2432.8	2311.5	2087.7	1900.2	1697.0	1389.0	1214.4	1126.5
65°	2509.2	2518.1	2510.1	2472.4	2298.9	2113.4	1903.3	1534.3	1323.4	1223.8
67.5°	2592.9	2601.7	2605.1	2665.1	2556.9	2379.1	2160.8	1715.3	1451.0	1324.8
70°	2590.9	2588.3	2648.8	2818.3	2880.0	2747.0	2507.8	1937.9	1603.1	1408.7
72.5°	2358.3	2337.7	2480.7	2816.6	3148.8	3131.1	2931.6	2225.0	1734.4	1419.0
75°	1769.2	1714.4	1967.0	2538.4	3193.6	3349.2	3201.1	2403.1	1703.3	1253.8
77.5°	756.6	701.5	999.2	1879.1	2858.3	3130.8	2953.9	2096.6	1359.7	829.1
80°	198.1	197.8	302.0	851.9	1943.9	2312.0	2028.3	1353.9	776.9	296.2
82.5°	81.9	79.9	111.0	331.4	949.8	1297.4	1058.8	603.9	280.5	80.2
85°	30.5	30.3	53.9	114.4	335.1	535.1	387.3	154.4	69.9	39.1
87.5°	8.6	8.3	11.7	39.7	81.6	123.9	66.2	25.4	19.7	15.4
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°
615.3	0°	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3
616.5	2.5°	617.3	618.7	621.3	623.3	625.9	628.7	632.7	635.3	637.9	639.6
617.9	5°	619.9	623.0	629.6	636.2	643.9	651.0	659.3	665.3	670.1	671.5
623.0	7.5°	625.6	630.7	641.9	653.0	665.3	677.0	689.0	699.2	707.5	710.6
632.2	10°	635.6	642.4	658.1	673.8	690.1	708.1	723.5	738.3	750.0	754.9
643.0	12.5°	648.1	656.7	677.3	698.9	721.5	746.3	766.3	784.6	799.1	805.7
658.1	15°	664.4	675.5	701.8	730.9	764.0	798.6	824.0	844.2	860.5	868.5
673.8	17.5°	682.1	696.9	730.1	774.0	821.4	866.8	896.4	911.3	928.1	935.8
688.4	20°	699.2	717.5	764.9	828.8	891.9	940.1	964.1	968.1	969.2	970.1
702.1	22.5°	716.9	741.5	808.5	897.9	965.5	998.9	1002.3	985.2	961.2	950.1
715.5	25°	736.3	768.9	865.6	974.1	1028.9	1032.9	1006.6	964.9	919.6	898.7
726.3	27.5°	755.2	800.5	934.1	1046.9	1074.5	1039.4	982.9	923.8	869.0	847.1
734.1	30°	774.0	836.8	1009.7	1110.5	1095.4	1023.2	945.5	879.6	824.5	801.4
740.9	32.5°	793.1	879.0	1096.8	1156.4	1091.7	988.6	899.0	829.9	781.4	757.2
746.9	35°	814.8	931.0	1179.3	1181.6	1066.8	937.8	837.7	770.6	728.3	708.9
754.0	37.5°	843.1	996.9	1252.1	1187.8	1023.4	863.3	761.4	700.4	665.6	656.7
764.6	40°	878.2	1076.2	1307.7	1177.8	959.2	772.9	678.1	629.3	609.6	611.6
778.9	42.5°	923.8	1165.0	1346.8	1152.2	869.9	679.5	605.1	583.4	592.8	600.8
800.3	45°	983.2	1257.2	1371.1	1108.5	768.9	600.5	562.0	567.1	574.2	575.1
834.8	47.5°	1059.1	1350.5	1387.0	1042.6	665.8	544.8	534.6	535.7	534.3	528.3
886.5	50°	1153.9	1441.3	1401.3	955.2	578.2	510.0	496.3	492.3	472.6	453.2
955.2	52.5°	1261.8	1524.6	1407.3	846.8	510.0	480.9	458.6	433.5	396.7	390.7
1041.7	55°	1381.6	1601.7	1391.9	713.5	452.6	443.5	409.8	379.6	375.6	370.5
1155.6	57.5°	1524.9	1684.7	1360.5	564.8	393.9	399.8	367.0	370.5	363.3	355.3
1302.0	60°	1681.6	1770.6	1305.4	429.2	333.1	345.3	355.9	355.6	353.6	347.0
1456.4	62.5°	1822.6	1827.1	1197.0	328.8	279.7	303.1	331.9	331.6	329.9	326.2
1617.7	65°	1906.5	1818.6	1016.0	258.9	235.7	268.3	299.4	301.7	302.0	301.7
1738.9	67.5°	1891.6	1718.4	767.7	206.1	199.5	232.9	267.1	270.3	272.6	273.1
1754.4	70°	1723.8	1498.4	500.6	164.4	167.2	201.8	236.6	239.7	241.7	244.0
1522.3	72.5°	1343.7	1101.6	286.5	133.0	139.0	175.0	206.3	210.1	211.2	215.5
1059.4	75°	818.8	647.9	154.7	104.7	114.2	149.6	176.4	180.7	182.7	187.8
520.3	77.5°	389.3	280.5	88.2	81.6	91.9	122.2	149.0	153.8	148.4	151.3
143.6	80°	131.6	104.2	55.7	62.2	70.2	95.3	119.3	124.1	112.7	112.2
47.7	82.5°	45.9	42.2	35.4	41.4	45.4	68.2	90.2	96.5	83.9	83.6
21.4	85°	18.0	17.1	19.7	22.5	27.1	42.0	59.4	62.5	51.7	41.7
6.3	87.5°	3.7	4.0	4.9	5.1	8.3	14.6	21.4	26.3	20.8	17.7
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>
615.3
638.4
672.1
710.9
755.2
805.7
867.9
935.5
972.4
953.2
901.9
849.6
804.0
760.3
713.2
663.0
618.5
608.2
580.8
532.8
455.8
392.7
371.3
353.9
344.8
324.8
301.7
273.7
245.2
217.2
188.4
149.0
111.0
79.6
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