

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: P939124

Luminaire Tested: **GALN-SB1C-827-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939124  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH  
HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

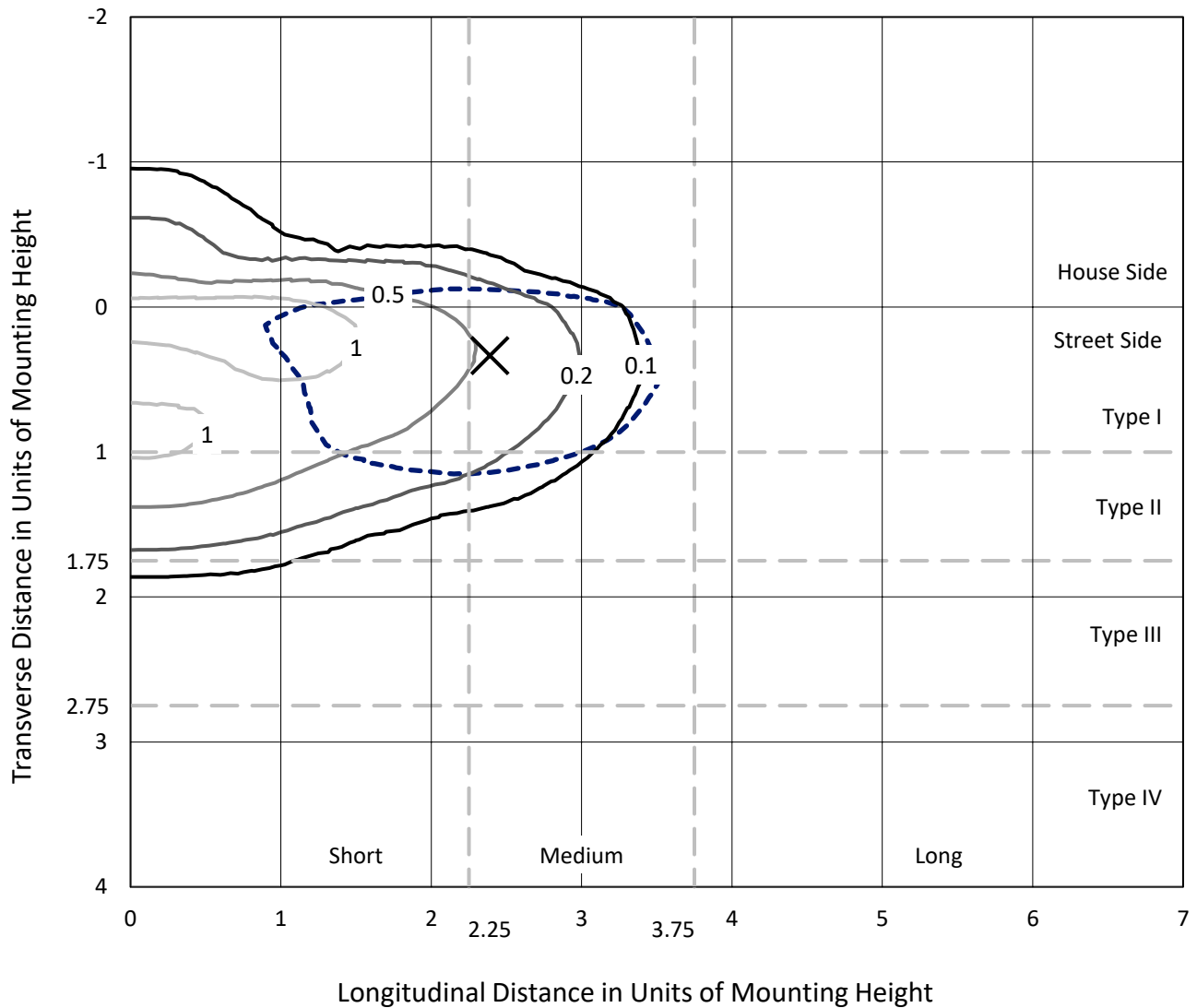
Lumens per Lamp: N/A  
Luminaire Lumens: 4757 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

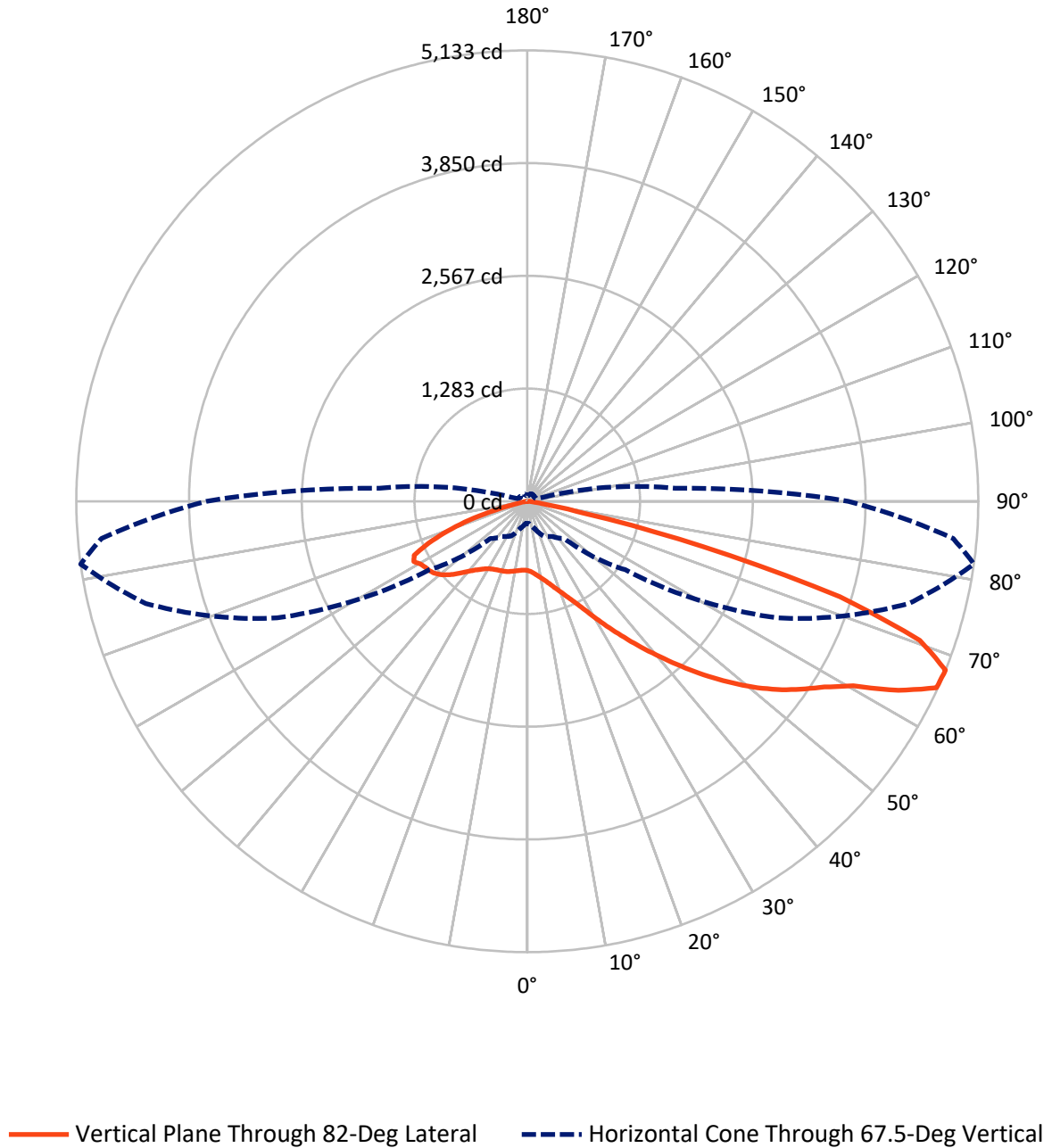
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type II - 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	861.7	0.0	861.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	3895.3	0.0	3895.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	4757.0	0.0	4757.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.2	1.5
10°-20°	182.5	3.8
20°-30°	292.2	6.1
30°-40°	516.8	10.9
40°-50°	905.4	19.0
50°-60°	1207.5	25.4
60°-70°	1124.2	23.6
70°-80°	431.5	9.1
80°-90°	26.8	0.6
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°	4757.0	100.0
0°-180°	4757.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939124

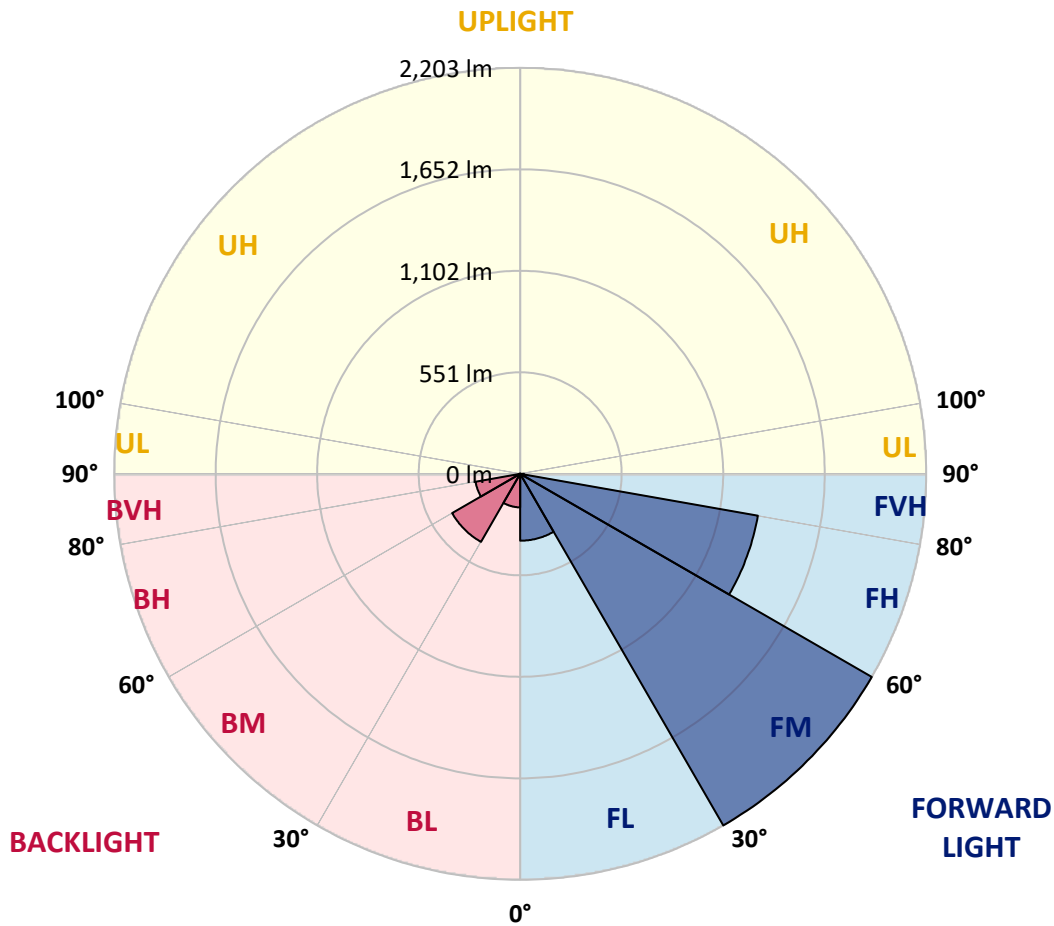
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	362.9	7.6			
FM (30°-60°)	2203.3	46.3			
FH (60°-80°)	1309.7	27.5			G1/1800
FVH (80°-90°)	19.5	0.4			G1/100
BL (0°-30°)	182.0	3.8	B1/500		
BM (30°-60°)	426.4	9.0	B1/1000		
BH (60°-80°)	245.9	5.2	B1/500		G1/500
BVH (80°-90°)	7.3	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Medium



REPORT NUMBER: P939124

CATALOG NUMBER: GALN-SB1C-827-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	788.1	788.1	788.1	788.1	788.1	788.1	788.1	788.1	788.1	788.1
2.5°	832.9	837.7	835.0	833.6	831.2	827.8	825.1	816.5	807.6	801.8
5°	849.7	854.5	854.2	855.5	857.3	858.3	857.6	848.0	835.3	825.4
7.5°	835.3	840.8	845.3	852.1	864.1	876.8	882.9	880.9	867.9	854.2
10°	794.6	800.4	811.0	827.1	852.5	879.9	902.8	913.4	905.2	890.1
12.5°	719.9	725.7	746.6	781.6	824.0	871.6	915.5	943.9	946.0	930.9
15°	636.0	641.8	664.1	707.9	772.7	849.0	922.3	976.1	994.3	981.2
17.5°	583.9	589.1	605.9	641.1	708.6	803.8	919.9	1010.4	1051.8	1041.5
20°	568.2	572.6	580.5	605.2	661.4	756.9	904.2	1042.5	1113.8	1108.0
22.5°	585.0	589.1	591.5	602.4	637.7	726.1	884.3	1075.4	1185.7	1186.4
25°	623.7	627.8	625.0	631.9	647.3	716.5	876.8	1114.1	1276.1	1283.7
27.5°	687.4	687.7	681.2	680.9	683.3	730.9	884.7	1155.6	1390.2	1404.2
30°	815.1	810.0	785.0	757.9	745.6	774.0	906.6	1204.5	1524.8	1549.8
32.5°	1012.1	1004.5	958.6	893.9	828.8	843.6	946.0	1260.4	1671.4	1716.6
35°	1225.8	1223.7	1175.8	1079.5	965.8	942.5	1010.0	1333.7	1831.3	1903.2
37.5°	1424.4	1423.4	1396.0	1282.6	1144.3	1080.6	1112.8	1429.6	2002.6	2106.7
40°	1605.9	1609.0	1581.6	1480.3	1340.9	1257.6	1252.5	1548.1	2193.0	2328.3
42.5°	1762.8	1766.2	1738.5	1663.5	1535.0	1453.5	1424.1	1693.3	2378.9	2566.3
45°	1869.3	1890.6	1886.4	1826.5	1734.4	1649.8	1630.3	1875.5	2591.0	2818.7
47.5°	1899.5	1919.0	1949.8	1958.0	1901.9	1818.6	1841.9	2095.0	2805.4	3071.5
50°	1825.1	1843.3	1907.3	1992.6	2031.7	2006.0	2047.8	2330.3	3024.9	3323.5
52.5°	1678.6	1697.0	1777.9	1912.8	2072.1	2152.9	2254.3	2562.2	3237.6	3562.3
55°	1466.6	1486.1	1589.8	1742.6	1995.0	2213.5	2426.6	2793.7	3432.5	3777.0
57.5°	1178.2	1192.6	1300.4	1514.2	1801.2	2153.2	2553.6	3046.5	3616.0	3988.0
60°	767.9	780.5	905.9	1144.3	1479.9	1951.9	2579.0	3328.3	3859.9	4262.3
62.5°	510.7	519.2	593.5	768.6	1042.2	1565.2	2430.7	3553.4	4217.4	4739.7
65°	350.4	358.9	433.3	555.2	673.3	1035.4	2004.3	3523.6	4541.4	5118.9
67.5°	250.0	257.2	320.2	435.3	487.4	601.4	1358.7	3142.7	4494.9	5133.3
70°	179.1	183.2	235.3	339.1	387.4	361.3	755.5	2403.6	3935.6	4740.1
72.5°	125.4	126.7	163.4	258.2	312.0	263.7	359.6	1602.5	2976.6	3720.5
75°	84.9	86.7	109.9	189.4	250.4	201.4	190.4	859.3	1747.4	2059.4
77.5°	52.1	52.7	70.9	129.5	187.3	153.4	122.6	364.1	676.1	663.7
80°	29.5	29.5	45.2	80.5	127.7	99.0	86.0	154.8	214.1	188.0
82.5°	16.4	16.8	32.9	50.0	84.6	58.6	47.3	71.6	92.5	81.9
85°	6.8	7.5	20.2	23.6	40.4	29.1	19.2	30.1	34.2	30.5
87.5°	0.7	1.0	6.2	4.5	4.8	5.8	2.7	5.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939124  
 CATALOG NUMBER: GALN-SB1C-827-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
788.1	0°	788.1	788.1	788.1	788.1	788.1	788.1	788.1	788.1	788.1	788.1
799.7	2.5°	793.2	788.1	775.1	760.0	740.1	730.5	717.5	708.6	701.1	701.8
819.6	5°	808.6	795.6	766.5	730.2	685.0	652.8	618.5	594.9	575.7	571.6
847.0	7.5°	829.9	809.3	758.3	692.9	616.5	558.6	506.9	473.7	450.0	442.5
880.2	10°	857.3	827.5	747.7	645.9	536.0	462.4	406.9	380.9	364.8	359.3
919.2	12.5°	889.1	848.4	733.6	588.7	453.1	382.2	346.9	333.9	328.8	327.1
967.2	15°	929.2	874.4	712.4	520.9	382.9	333.2	318.2	316.5	317.1	316.5
1024.7	17.5°	976.8	902.8	677.8	451.1	335.6	308.2	302.8	304.1	305.8	305.5
1089.1	20°	1028.8	930.9	633.6	389.1	303.4	290.4	287.4	288.7	290.1	289.4
1163.4	22.5°	1088.1	961.0	584.6	340.8	281.9	274.0	270.6	270.9	270.9	269.5
1257.6	25°	1159.0	994.3	533.3	306.5	265.4	259.3	255.2	253.8	251.7	247.6
1372.0	27.5°	1243.6	1029.5	483.9	282.6	252.4	246.6	241.8	238.4	233.2	226.4
1509.4	30°	1338.8	1072.3	442.2	267.5	242.1	236.3	230.8	225.7	218.2	209.6
1667.3	32.5°	1450.8	1118.2	411.7	257.6	232.9	226.7	220.2	214.1	205.8	197.3
1844.7	35°	1584.4	1173.7	393.9	250.7	225.7	217.5	210.3	203.4	197.3	189.7
2037.5	37.5°	1729.2	1232.6	388.4	247.3	220.9	208.2	200.0	195.2	194.5	190.1
2246.1	40°	1887.8	1302.5	392.5	245.2	215.8	199.3	190.4	189.4	191.1	183.2
2469.0	42.5°	2055.6	1385.4	399.3	242.8	208.6	190.4	181.9	181.9	180.5	169.5
2704.7	45°	2237.2	1480.9	406.2	237.0	200.0	181.5	175.0	172.6	166.8	156.2
2941.7	47.5°	2420.0	1578.2	411.3	226.4	189.7	174.0	168.2	162.7	154.1	144.5
3174.2	50°	2593.7	1665.5	405.9	210.6	178.1	166.8	160.6	153.1	143.8	137.3
3394.4	52.5°	2748.8	1741.2	382.6	192.1	165.8	159.3	153.8	145.9	138.4	131.5
3593.1	55°	2883.8	1802.5	341.5	174.7	154.8	152.8	147.3	137.3	127.1	121.2
3790.0	57.5°	3013.2	1849.1	290.1	160.3	144.9	145.6	137.3	128.4	118.8	112.7
4055.4	60°	3185.5	1911.4	238.0	146.9	134.3	136.3	127.4	120.9	108.9	101.0
4510.6	62.5°	3460.9	2008.4	189.1	130.5	121.9	122.6	118.8	111.0	96.6	87.3
4848.0	65°	3679.4	1972.8	149.0	112.7	107.9	108.9	108.9	100.4	84.9	74.3
4866.1	67.5°	3654.7	1689.2	118.8	95.2	94.5	95.2	97.6	90.4	75.3	66.8
4495.5	70°	3366.7	1343.6	95.2	79.1	82.2	80.5	87.3	82.5	67.8	59.3
3485.2	72.5°	2747.1	967.9	72.6	65.4	63.0	65.8	78.8	74.3	56.5	46.9
1846.0	75°	1605.3	516.5	54.1	51.7	45.6	54.8	69.9	63.4	43.2	34.6
565.8	77.5°	522.6	180.2	39.7	38.0	33.9	44.2	59.6	53.4	35.3	27.4
165.8	80°	140.1	54.5	27.1	25.0	21.9	32.9	47.3	42.5	25.3	17.8
71.2	82.5°	56.2	22.9	15.8	14.0	12.0	22.6	37.3	34.2	18.8	11.3
22.3	85°	18.2	7.5	5.8	4.5	5.5	14.0	22.3	23.3	13.4	5.8
3.4	87.5°	2.4	1.0	1.0	1.4	1.0	2.4	6.8	6.5	3.8	0.7
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>
788.1
694.9
562.4
435.0
355.2
326.1
316.1
304.8
289.1
268.9
246.9
225.7
208.9
197.6
189.1
189.7
183.6
169.5
155.8
144.2
136.3
130.8
120.6
112.0
100.0
86.7
73.3
65.4
58.2
45.9
33.6
26.4
17.5
11.3
4.5
0.0
0.0

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