

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: P945698

Luminaire Tested: **GALN-SB1C-827-U-SL3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)  
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-SL3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

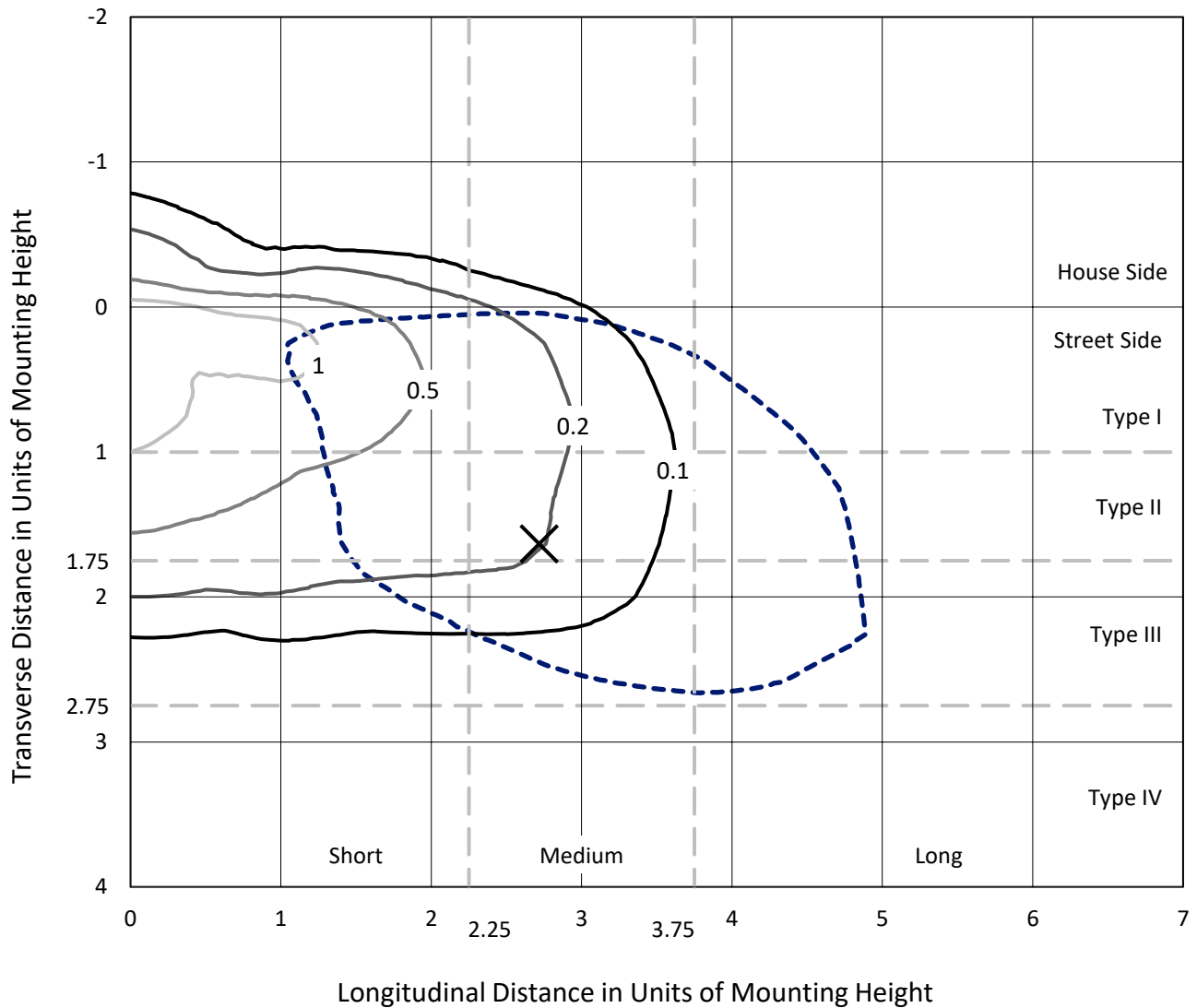
Lumens per Lamp: N/A  
Luminaire Lumens: 5246 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

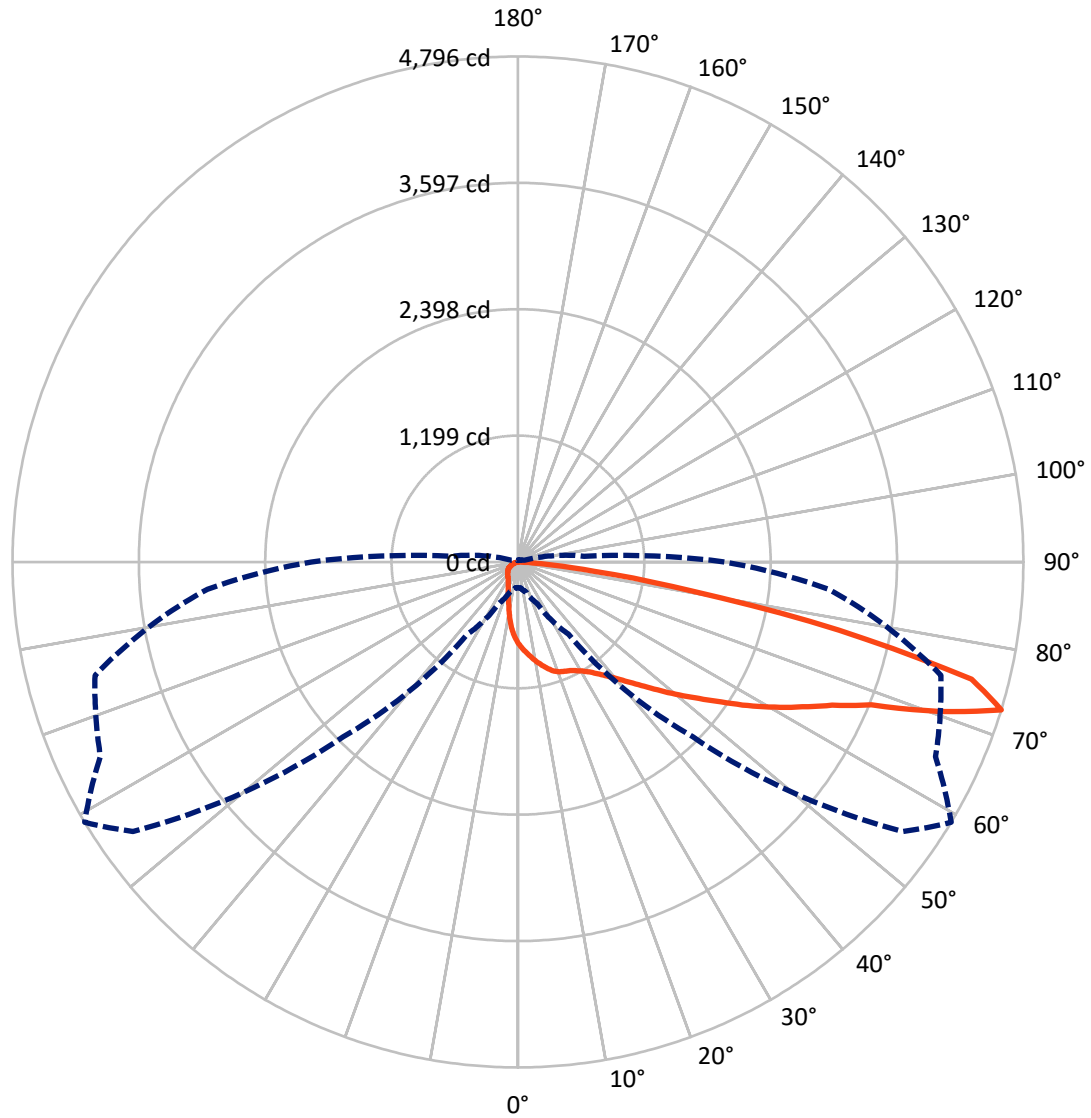
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	554.1	0.0	554.1
	% Fixture	10.6	0.0	10.6
<b>Street Side</b>	Lumens	4691.9	0.0	4691.9
	% Fixture	89.4	0.0	89.4
<b>Total</b>	Lumens	5246.0	0.0	5246.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.2	1.3
10°-20°	186.4	3.6
20°-30°	295.5	5.6
30°-40°	474.1	9.0
40°-50°	757.3	14.4
50°-60°	1096.5	20.9
60°-70°	1301.3	24.8
70°-80°	966.0	18.4
80°-90°	98.8	1.9
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°	5246.0	100.0
0°-180°	5246.0	100.0

**Coefficient of Utilization**



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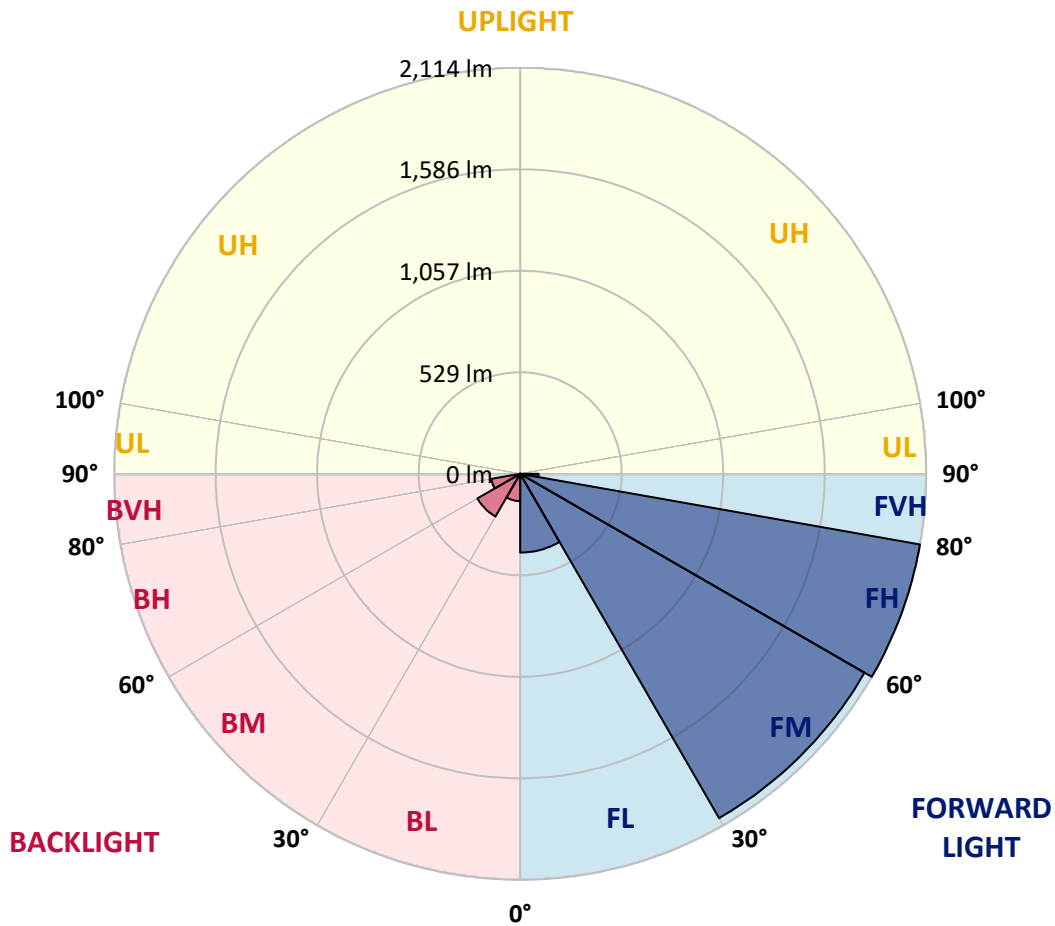
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.1	7.8			
FM (30°-60°)	2071.0	39.5			
FH (60°-80°)	2114.4	40.3			G2/5000
FVH (80°-90°)	96.3	1.8			G1/100
BL (0°-30°)	141.9	2.7	B1/500		
BM (30°-60°)	256.9	4.9	B1/1000		
BH (60°-80°)	152.8	2.9	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8
2.5°	860.7	855.9	856.6	848.4	842.5	836.4	824.4	822.7	814.1	799.0
5°	935.7	932.6	929.9	920.6	908.6	893.6	873.4	866.2	850.4	824.4
7.5°	990.5	986.7	988.1	978.9	969.3	952.5	924.7	911.4	890.5	850.8
10°	1001.1	999.1	1008.0	1011.4	1011.4	1000.8	973.7	960.4	929.9	879.2
12.5°	941.5	941.9	964.1	990.8	1025.8	1035.7	1017.6	1003.2	973.0	909.3
15°	872.0	872.3	893.9	928.2	985.4	1042.6	1056.9	1047.7	1016.5	941.9
17.5°	830.2	828.5	842.9	871.0	930.9	1011.4	1080.9	1087.1	1061.7	977.8
20°	824.4	821.3	828.8	842.9	885.7	972.4	1083.7	1112.8	1108.3	1018.6
22.5°	860.0	855.2	851.1	851.8	869.9	939.8	1076.8	1127.2	1156.3	1067.6
25°	930.6	923.0	909.7	892.6	888.8	933.0	1072.0	1142.9	1200.8	1130.2
27.5°	1016.9	1006.3	980.6	954.9	933.0	952.1	1082.0	1167.9	1251.1	1203.2
30°	1111.7	1098.7	1073.0	1024.4	989.5	995.0	1105.6	1200.8	1315.5	1285.7
32.5°	1251.1	1221.0	1176.1	1101.8	1055.6	1041.2	1141.2	1242.6	1395.3	1395.7
35°	1370.7	1353.9	1308.7	1216.2	1121.3	1102.5	1188.1	1301.5	1506.0	1541.2
37.5°	1449.1	1426.2	1386.4	1316.9	1223.4	1165.5	1250.8	1373.8	1623.1	1707.0
40°	1536.8	1514.2	1461.4	1396.0	1341.9	1273.8	1329.9	1457.0	1751.5	1877.2
42.5°	1642.6	1613.2	1550.8	1480.3	1423.8	1416.2	1433.4	1560.8	1883.4	2062.2
45°	1766.9	1739.2	1667.6	1578.6	1528.9	1515.6	1563.5	1681.7	2030.3	2264.9
47.5°	1883.4	1851.2	1774.1	1693.0	1637.8	1595.7	1701.9	1824.5	2196.8	2476.9
50°	1982.4	1949.5	1878.9	1792.3	1755.0	1699.8	1837.8	1983.7	2361.9	2692.4
52.5°	2050.2	2021.1	1938.2	1879.3	1853.9	1826.2	1997.1	2152.6	2526.3	2889.7
55°	2034.8	2008.8	1935.8	1931.7	1930.0	1959.1	2187.5	2344.1	2693.7	3076.3
57.5°	1985.8	1956.3	1865.2	1927.9	1988.5	2077.6	2393.7	2570.4	2877.3	3252.4
60°	1841.6	1831.3	1775.9	1920.7	2013.2	2193.7	2629.4	2797.9	3076.0	3407.2
62.5°	1536.4	1545.4	1545.0	1935.8	2057.7	2325.9	2843.4	3028.0	3270.2	3556.2
65°	1150.5	1181.3	1220.7	1800.2	2117.3	2561.9	3099.3	3277.7	3467.5	3729.5
67.5°	773.0	797.7	824.4	1476.9	1939.9	2809.9	3524.3	3619.9	3703.8	3921.6
70°	442.5	450.4	487.7	922.3	1495.3	2741.4	4216.5	4251.1	4056.2	4158.3
72.5°	248.0	245.2	294.5	437.7	835.7	2347.5	4459.0	4796.3	4371.6	4154.5
75°	165.8	166.1	202.8	276.1	325.7	1643.3	3842.5	4447.3	4182.6	3683.9
77.5°	113.0	116.8	149.0	213.4	150.7	801.8	2542.0	3115.4	3386.3	2844.8
80°	49.0	49.3	98.3	153.1	101.7	255.2	1317.9	1669.0	2123.8	1597.4
82.5°	25.3	28.8	62.7	99.0	64.0	89.4	622.7	729.2	891.2	468.9
85°	8.9	10.6	38.7	48.6	32.2	31.9	216.8	220.9	188.7	70.6
87.5°	0.0	1.7	15.1	12.0	4.1	3.8	25.7	21.6	17.1	9.9
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°
775.8	0°	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8
783.6	2.5°	776.4	767.2	752.1	733.6	712.1	700.4	683.6	673.4	664.1	664.4
794.3	5°	777.5	762.1	723.7	682.9	637.7	604.5	567.5	541.5	521.6	516.8
805.2	7.5°	780.6	754.5	691.8	624.0	548.7	492.9	441.8	409.6	391.5	386.7
816.5	10°	784.7	746.3	655.9	552.1	458.6	391.5	349.0	328.5	320.2	314.1
830.9	12.5°	788.1	737.7	610.7	477.8	378.5	326.1	293.9	276.7	269.5	265.1
847.7	15°	793.9	726.4	561.7	408.6	324.3	281.5	251.1	238.4	236.3	237.0
866.2	17.5°	799.7	715.5	506.9	354.5	284.6	242.5	224.0	221.9	224.7	227.4
887.4	20°	806.2	699.7	451.4	313.7	248.0	215.4	210.6	212.0	213.4	218.2
916.5	22.5°	815.8	679.9	402.8	279.1	217.5	202.4	200.0	201.0	202.1	206.9
954.9	25°	829.5	658.6	363.4	247.3	198.3	191.8	189.4	189.4	190.8	195.2
999.4	27.5°	843.9	628.5	331.5	217.8	187.0	180.2	176.0	176.0	177.8	182.9
1055.2	30°	860.0	601.1	306.5	195.9	177.4	168.5	163.0	161.7	163.7	170.2
1136.1	32.5°	889.1	583.3	288.7	185.6	168.9	157.9	150.4	146.6	148.6	156.2
1249.1	35°	933.3	579.2	276.4	180.5	160.6	148.3	137.7	131.9	133.6	141.5
1388.5	37.5°	985.0	587.7	264.4	173.6	152.8	139.1	125.0	117.5	120.2	127.4
1547.7	40°	1059.3	623.3	255.2	168.5	144.9	128.1	112.3	104.8	109.3	115.4
1713.5	42.5°	1149.1	686.7	252.8	163.7	135.3	116.4	100.7	95.2	98.6	104.5
1881.0	45°	1260.4	767.5	263.7	157.5	124.7	105.1	91.4	88.4	89.4	95.2
2039.2	47.5°	1379.9	850.4	293.9	152.1	115.4	95.9	84.3	81.5	80.8	86.3
2183.8	50°	1500.8	924.1	329.5	148.0	108.9	88.4	78.8	75.3	73.6	77.1
2326.6	52.5°	1620.4	982.6	352.8	141.1	102.4	80.8	74.0	68.8	65.8	67.5
2468.7	55°	1741.6	1034.0	354.1	130.8	96.2	76.0	69.2	63.4	59.6	59.6
2605.7	57.5°	1855.0	1079.2	333.9	117.1	87.7	71.6	62.7	57.9	53.8	52.4
2727.3	60°	1955.3	1112.8	300.4	101.7	80.1	65.8	56.2	52.4	47.3	44.5
2835.5	62.5°	2044.7	1129.2	254.5	86.0	70.9	58.9	50.0	45.9	39.0	35.6
2945.5	65°	2120.4	1112.4	206.5	71.2	63.0	51.4	42.8	38.7	31.2	27.1
3069.1	67.5°	2195.4	1035.7	156.2	59.9	54.8	43.2	35.3	31.5	26.0	22.6
3159.2	70°	2205.0	874.4	109.3	50.3	45.6	33.2	28.4	26.0	21.2	18.2
2958.2	72.5°	1962.9	629.2	66.4	41.1	35.6	23.6	22.6	20.5	15.8	13.7
2417.0	75°	1569.0	385.7	39.0	30.8	23.6	16.8	16.8	14.7	10.6	8.9
1668.7	77.5°	1084.3	201.7	22.9	19.9	14.0	9.9	11.0	8.9	5.1	4.1
661.0	80°	434.3	76.7	12.3	9.2	6.5	4.5	3.8	2.1	1.0	0.7
135.6	82.5°	86.7	20.2	4.1	2.4	2.4	1.0	0.0	0.0	0.0	0.0
37.3	85°	22.3	4.5	1.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0
12.3	87.5°	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
775.8
672.0
524.0
391.5
317.8
267.5
238.0
228.4
219.5
208.2
196.9
184.9
171.9
158.2
143.8
129.5
116.4
105.5
98.0
89.7
78.4
68.8
60.3
52.7
43.8
35.3
27.1
22.6
17.8
13.4
8.9
4.1
1.0
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