

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: P939338

Luminaire Tested: **GALN-SB1D-850-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939338  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-850-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

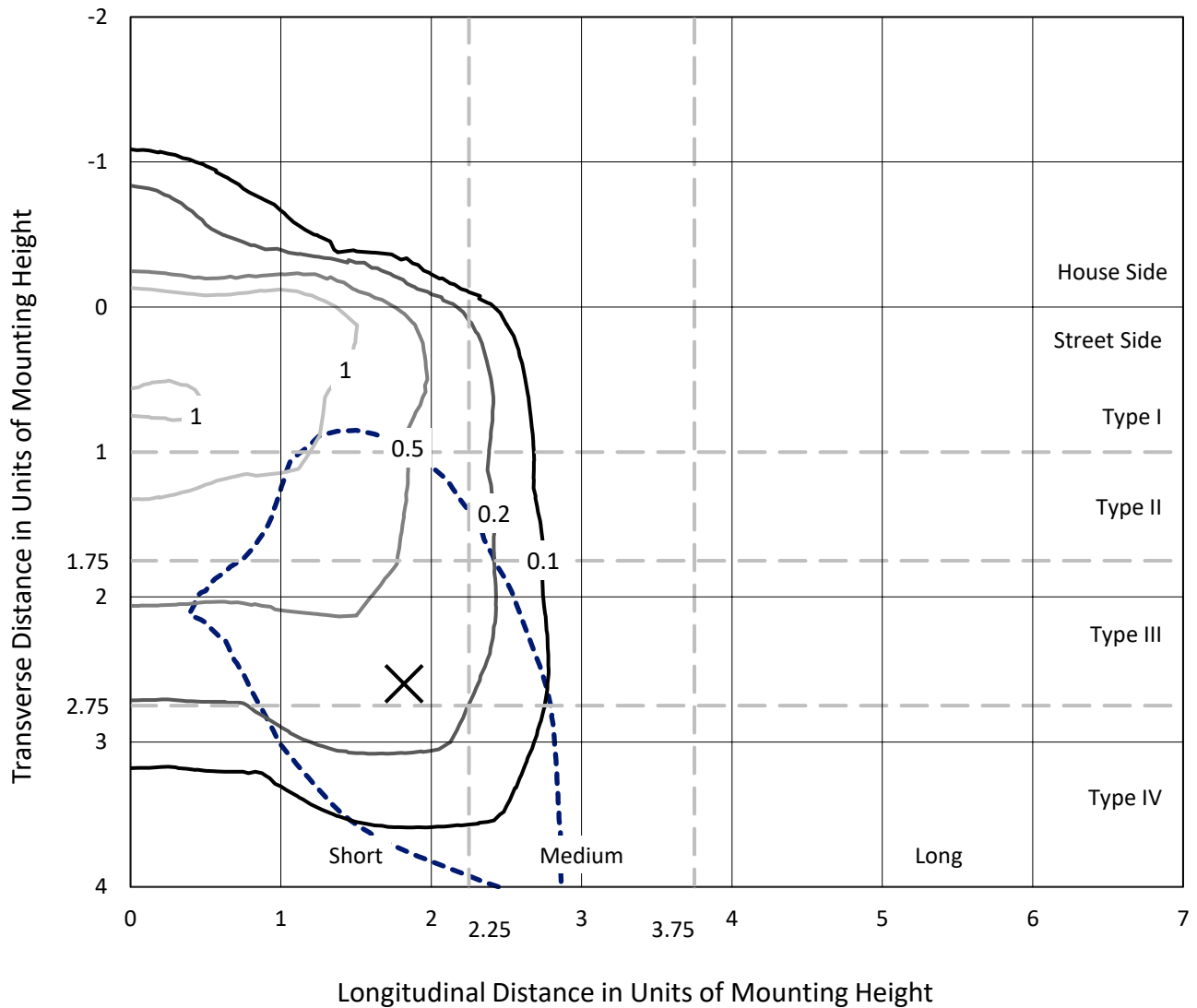
Lumens per Lamp: N/A  
Luminaire Lumens: 7372 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

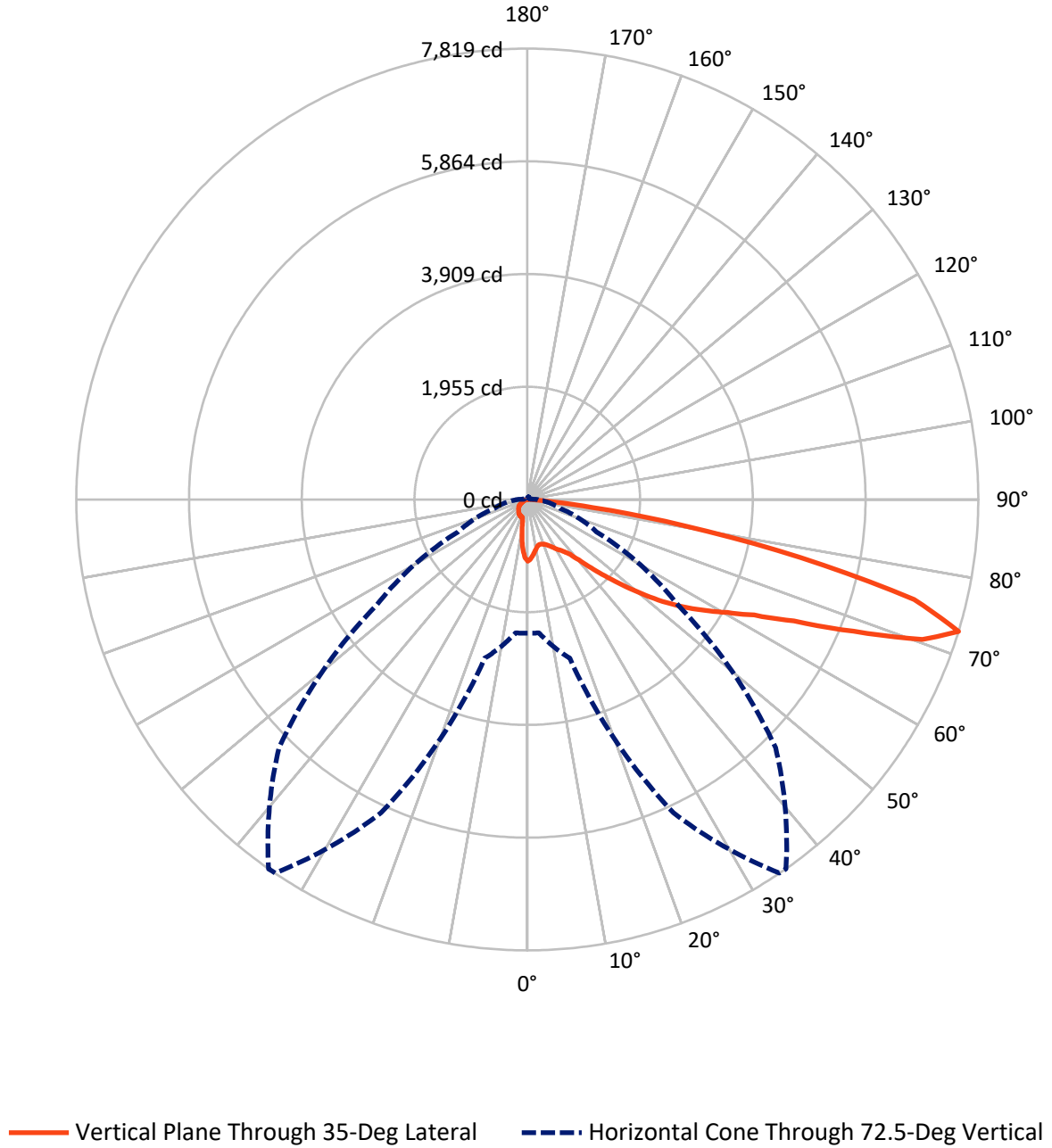
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	829.7	0.0	829.7
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	6542.3	0.0	6542.3
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	7372.0	0.0	7372.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.8	1.2
10°-20°	205.4	2.8
20°-30°	333.7	4.5
30°-40°	556.7	7.6
40°-50°	1053.3	14.3
50°-60°	1673.7	22.7
60°-70°	2070.5	28.1
70°-80°	1287.0	17.5
80°-90°	104.0	1.4
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°	7372.0	100.0
0°-180°	7372.0	100.0

**Coefficient of Utilization**



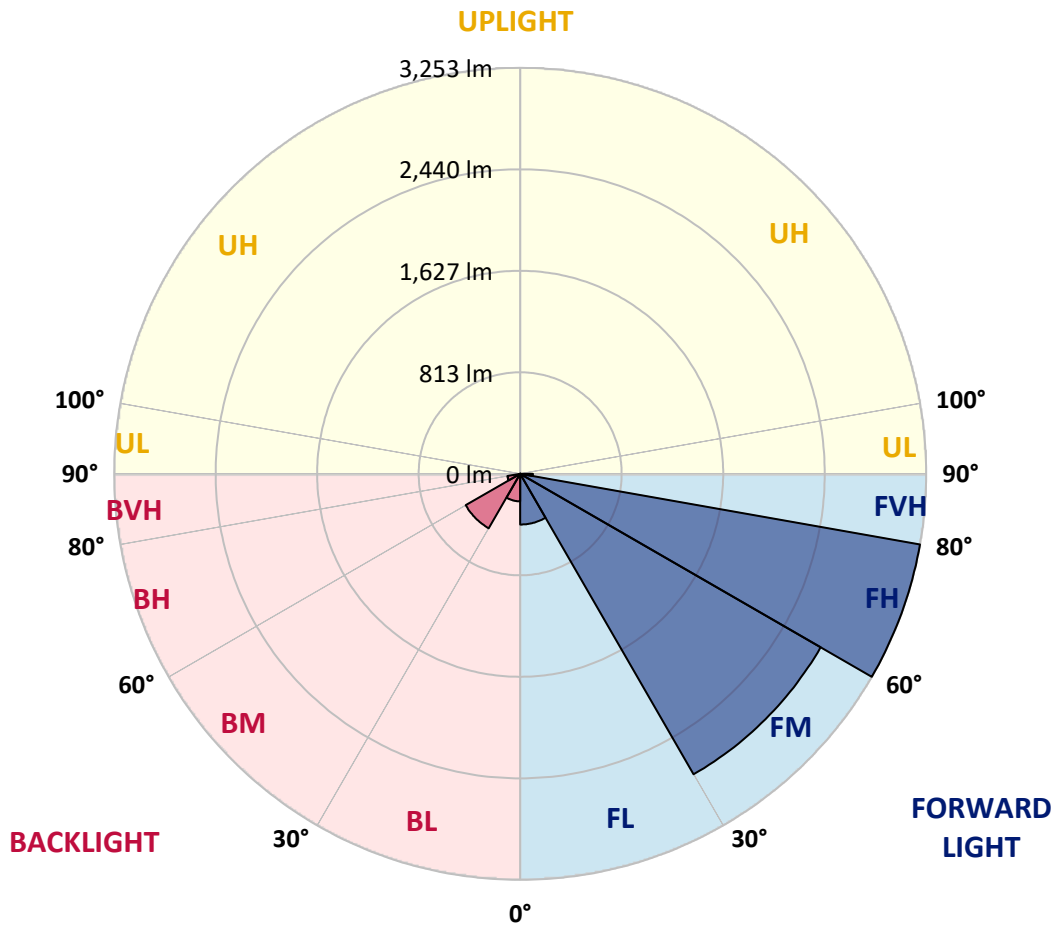
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.4	5.5			
FM (30°-60°)	2780.0	37.7			
FH (60°-80°)	3253.4	44.1			G2/5000
FVH (80°-90°)	102.6	1.4			G2/225
BL (0°-30°)	220.5	3.0	B1/500		
BM (30°-60°)	503.7	6.8	B1/1000		
BH (60°-80°)	104.1	1.4	B0/110		G0/110
BVH (80°-90°)	1.4	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4
2.5°	1020.9	1029.6	1031.2	1033.9	1033.9	1037.1	1042.5	1050.1	1062.5	1069.0
5°	941.0	947.5	955.6	962.0	974.5	976.1	997.1	1017.7	1046.3	1067.9
7.5°	860.5	868.0	878.9	894.5	910.7	915.6	947.5	982.0	1027.4	1067.9
10°	803.8	804.3	814.0	829.7	855.6	861.6	900.5	949.6	1006.3	1061.4
12.5°	771.9	775.7	780.0	791.9	816.7	820.5	862.1	919.9	985.3	1057.6
15°	771.9	774.6	777.3	783.2	803.2	806.5	843.2	901.0	974.5	1059.3
17.5°	780.0	784.3	782.2	789.2	810.3	812.4	844.8	895.6	973.9	1069.5
20°	799.4	802.7	798.4	802.7	823.8	828.1	861.6	905.9	983.1	1087.4
22.5°	830.2	831.9	821.6	824.8	846.4	851.8	890.7	935.0	1005.3	1116.0
25°	869.1	872.4	856.7	860.5	881.0	887.5	932.3	978.8	1040.4	1155.4
27.5°	914.0	915.6	902.1	901.5	928.0	937.2	982.6	1032.8	1087.4	1205.1
30°	965.3	970.1	957.2	955.0	988.5	996.1	1040.9	1099.2	1156.5	1279.7
32.5°	1005.8	1009.6	1002.0	1007.4	1041.4	1047.4	1111.7	1193.2	1265.1	1385.5
35°	1064.1	1066.3	1049.0	1058.7	1097.6	1112.7	1208.4	1325.0	1401.7	1518.4
37.5°	1275.3	1275.3	1201.9	1153.8	1191.1	1204.6	1340.7	1490.9	1570.3	1696.7
40°	1567.6	1562.7	1455.2	1356.9	1352.0	1378.5	1529.2	1699.9	1788.0	1910.6
42.5°	1879.2	1871.7	1725.3	1628.1	1611.9	1621.0	1746.9	1957.6	2047.2	2171.5
45°	2155.8	2153.6	2019.7	1889.0	1859.8	1889.0	2018.6	2259.0	2323.3	2454.0
47.5°	2387.5	2387.5	2289.8	2204.4	2189.3	2206.6	2386.5	2593.3	2587.4	2754.9
50°	2654.4	2652.2	2559.3	2522.6	2538.2	2562.6	2809.9	2945.5	2860.7	3050.3
52.5°	2841.3	2854.2	2822.4	2816.4	2896.4	2938.5	3239.9	3290.2	3105.4	3330.7
55°	2989.3	3004.4	3041.1	3082.7	3236.7	3291.8	3656.4	3617.0	3310.1	3573.7
57.5°	3198.9	3177.3	3234.0	3316.1	3565.1	3631.5	4059.9	3925.4	3474.9	3770.9
60°	3453.3	3456.5	3466.3	3570.0	3893.0	3978.3	4457.5	4217.1	3580.8	3891.9
62.5°	3759.0	3763.9	3783.9	3943.2	4333.2	4413.7	4880.9	4455.8	3629.4	3857.9
65°	3738.0	3758.5	3981.6	4526.6	5002.5	5081.9	5375.2	4623.3	3555.9	3546.7
67.5°	3405.2	3438.7	3812.0	5223.4	6011.5	6100.1	5972.6	4656.2	3238.8	2758.1
70°	2968.8	2980.6	3429.5	5850.0	7179.9	7269.6	6507.4	4293.8	2457.8	1538.4
72.5°	2318.4	2321.1	2847.8	5995.3	7814.1	7818.9	6087.7	3187.5	1321.8	590.9
75°	1656.2	1639.9	1907.3	4862.0	6874.7	6929.8	4563.9	1495.2	505.1	279.3
77.5°	888.0	905.9	1079.3	2883.4	4749.1	4843.1	2490.2	431.1	257.1	190.1
80°	274.4	289.5	442.4	1320.2	2690.0	2746.7	923.1	191.8	179.3	135.6
82.5°	86.4	89.7	206.3	554.8	1116.5	1142.5	267.4	108.6	122.6	89.7
85°	24.8	25.4	91.8	206.9	276.0	281.4	75.1	42.1	70.2	55.6
87.5°	2.7	8.6	34.6	34.6	24.3	23.8	8.1	9.2	20.0	7.0
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°
1068.4	0°	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4	1068.4
1073.3	2.5°	1070.6	1071.2	1064.1	1052.2	1039.3	1028.5	1015.0	1004.2	996.6	994.4
1083.0	5°	1078.2	1074.4	1054.4	1018.2	975.0	937.7	896.1	863.2	841.6	832.4
1093.3	7.5°	1089.5	1078.7	1035.0	963.7	881.0	807.5	733.0	675.2	638.5	620.1
1103.0	10°	1099.2	1077.6	1002.5	884.8	758.4	647.1	546.6	477.0	438.1	419.7
1114.4	12.5°	1108.4	1077.1	960.4	791.3	620.1	484.0	390.5	356.0	345.2	341.4
1132.7	15°	1125.7	1078.7	907.5	684.4	482.4	365.7	331.7	331.1	333.3	332.2
1160.8	17.5°	1149.5	1080.3	847.5	571.0	372.2	322.5	320.9	325.7	329.0	327.3
1195.9	20°	1180.3	1086.8	783.8	458.6	319.8	311.7	315.5	319.8	322.5	319.8
1242.9	22.5°	1223.5	1098.2	714.1	368.4	303.0	305.2	308.4	313.3	316.0	312.2
1302.9	25°	1276.4	1116.0	645.5	320.3	294.9	297.6	302.5	307.9	311.1	307.4
1378.5	27.5°	1345.0	1144.6	582.3	309.5	286.8	288.4	295.5	303.6	307.9	303.0
1486.0	30°	1444.4	1191.6	527.7	314.4	282.0	278.2	287.9	299.3	304.1	299.8
1632.4	32.5°	1576.2	1258.0	494.3	321.9	279.8	266.3	275.5	290.1	298.2	295.5
1823.6	35°	1749.1	1359.1	481.3	330.6	278.2	253.9	260.4	276.0	290.1	292.8
2064.5	37.5°	1958.6	1499.5	485.1	334.4	273.3	243.6	246.9	260.4	278.7	287.4
2335.7	40°	2196.9	1663.2	506.7	330.6	267.9	235.0	235.5	245.8	262.0	274.9
2627.4	42.5°	2442.6	1854.4	546.6	316.5	263.1	227.4	225.8	232.8	243.6	252.8
2918.5	45°	2676.5	2051.0	586.1	297.1	257.1	219.8	216.1	218.8	220.9	224.7
3202.1	47.5°	2880.7	2189.3	574.7	279.3	249.0	211.2	204.7	203.6	197.2	196.6
3455.4	50°	3021.7	2219.5	510.5	261.4	237.1	201.5	191.2	184.7	173.4	168.0
3645.0	52.5°	3066.5	2100.2	417.0	243.6	217.7	188.5	173.9	163.7	149.6	144.8
3754.2	55°	3007.1	1866.3	333.3	222.0	190.7	171.2	155.0	141.5	130.2	124.2
3766.0	57.5°	2861.8	1568.6	263.6	196.6	162.1	151.8	135.6	122.1	112.4	106.4
3634.2	60°	2620.9	1245.6	208.5	166.4	138.3	130.7	114.0	105.3	96.7	89.7
3293.9	62.5°	2255.2	889.1	163.7	131.8	115.6	107.0	97.2	90.7	80.5	70.8
2681.9	65°	1759.9	543.9	126.4	96.7	92.9	88.6	82.6	76.7	64.3	54.6
1749.6	67.5°	1110.0	257.7	90.2	72.9	73.5	71.3	68.6	63.7	54.6	45.9
783.8	70°	488.9	124.8	59.4	55.6	54.6	54.6	56.7	55.1	46.5	38.4
272.2	72.5°	166.4	67.0	44.3	42.1	39.4	38.9	47.5	45.9	37.3	29.7
135.6	75°	87.0	44.8	32.4	30.2	23.8	28.6	37.8	35.7	26.5	19.4
89.7	77.5°	56.7	31.9	22.1	19.4	13.5	18.9	28.1	24.8	15.7	9.7
58.9	80°	35.7	21.1	13.0	9.2	6.5	10.3	15.1	10.8	5.9	2.2
34.6	82.5°	18.9	10.8	4.9	3.2	2.7	3.2	3.8	2.7	1.1	0.0
17.8	85°	7.6	3.8	1.6	1.1	0.5	0.0	1.1	0.5	0.0	0.0
3.2	87.5°	2.7	0.5	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>
1068.4
998.2
835.6
622.8
420.2
340.3
331.7
326.8
319.2
311.7
306.8
303.0
299.3
295.5
292.8
289.5
279.3
256.6
226.9
196.1
168.5
144.2
124.2
105.3
88.0
69.1
52.9
44.8
36.7
28.1
17.8
8.6
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