

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: P939478

Luminaire Tested: **GALN-SB2A-830-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939478  
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-SB2A-830-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

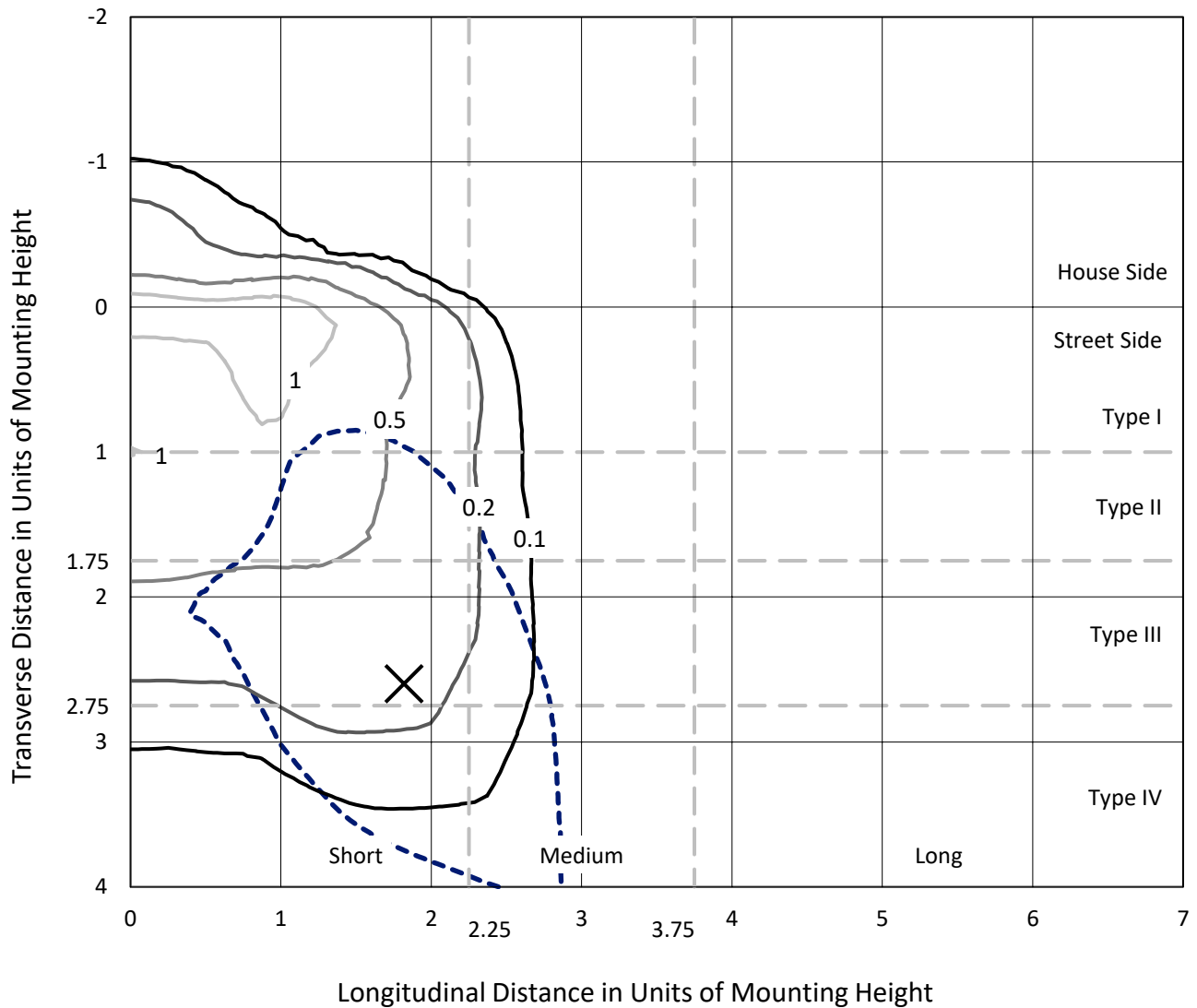
Lumens per Lamp: N/A  
Luminaire Lumens: 6103 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

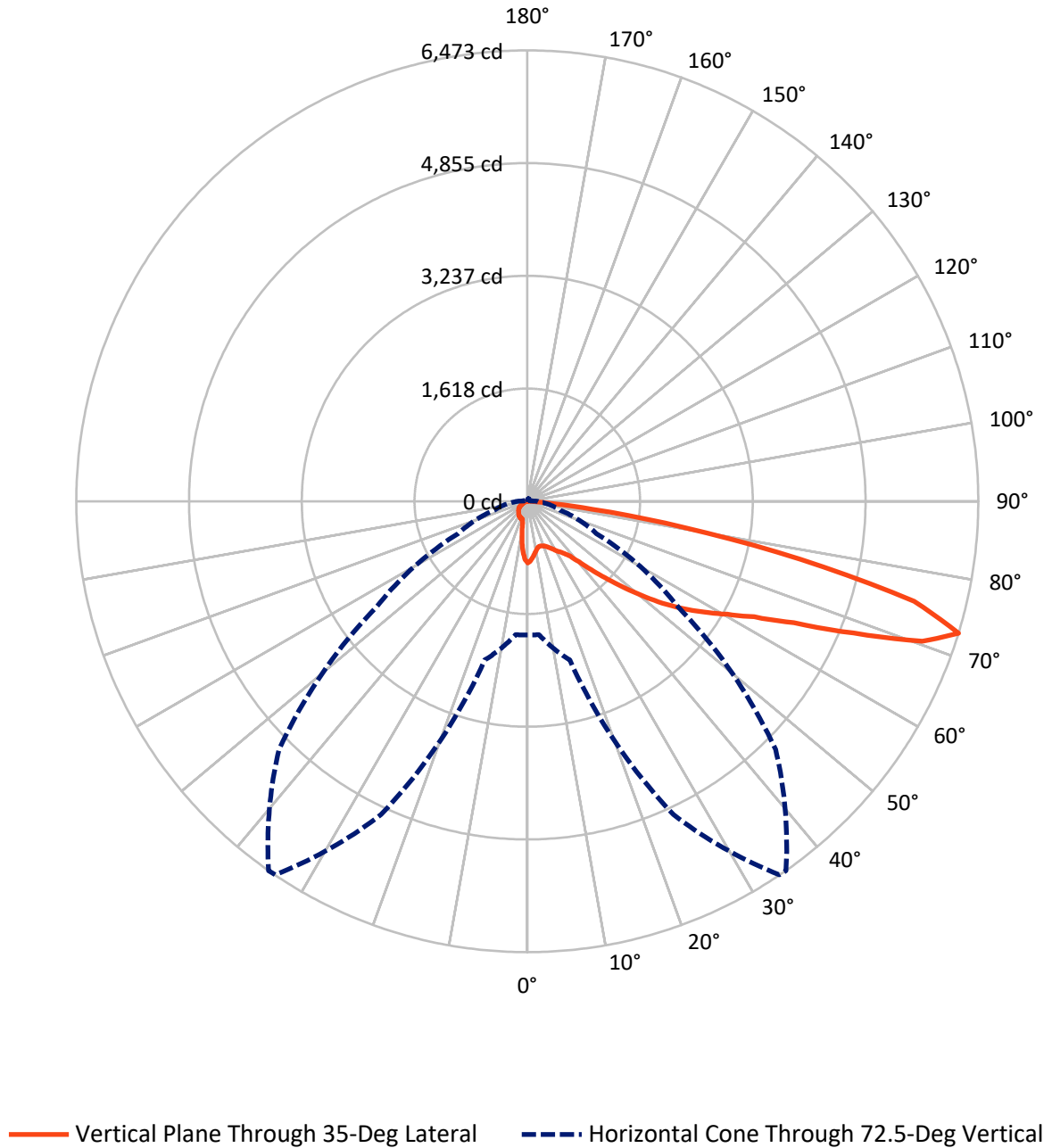
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	686.9	0.0	686.9
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	5416.1	0.0	5416.1
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	6103.0	0.0	6103.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.7	1.2
10°-20°	170.0	2.8
20°-30°	276.2	4.5
30°-40°	460.9	7.6
40°-50°	872.0	14.3
50°-60°	1385.6	22.7
60°-70°	1714.1	28.1
70°-80°	1065.5	17.5
80°-90°	86.1	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°	6103.0	100.0
0°-180°	6103.0	100.0

**Coefficient of Utilization**



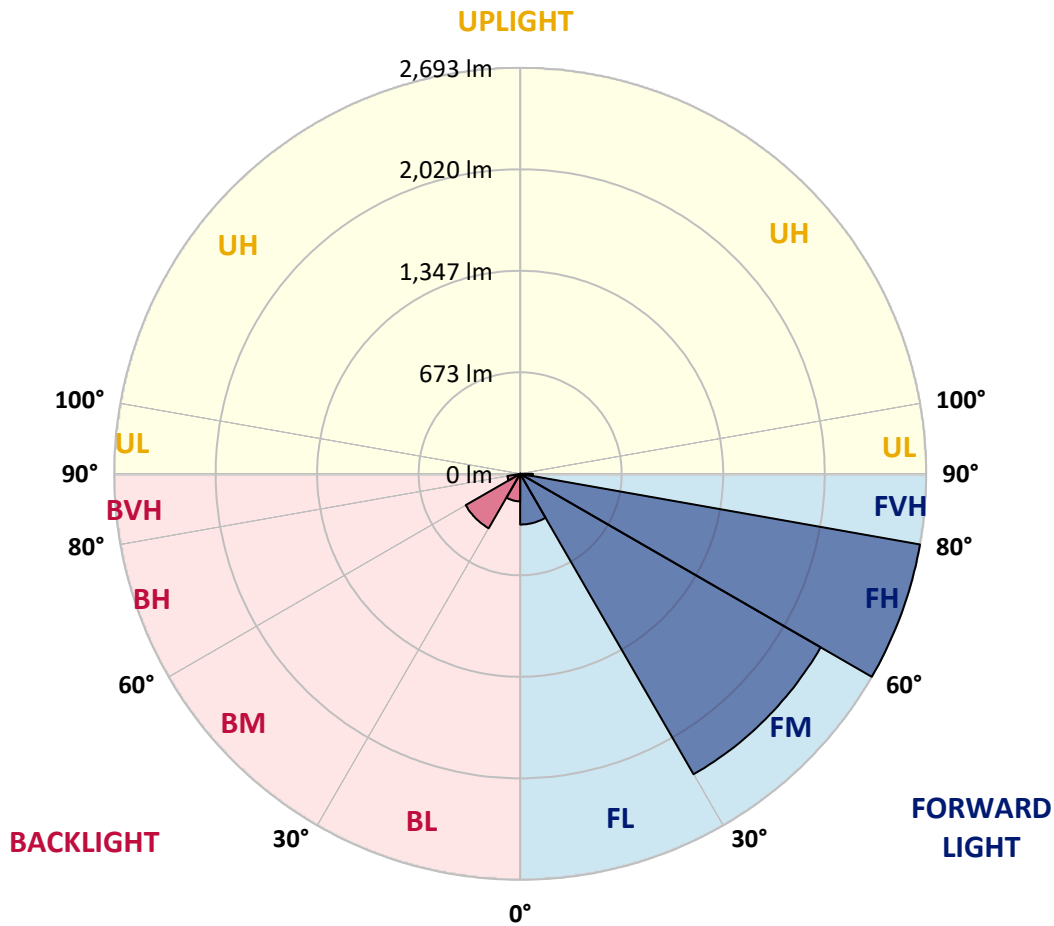
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	336.4	5.5			
FM (30°-60°)	2301.4	37.7			
FH (60°-80°)	2693.3	44.1			G2/5000
FVH (80°-90°)	84.9	1.4			G1/100
BL (0°-30°)	182.5	3.0	B1/500		
BM (30°-60°)	417.0	6.8	B1/1000		
BH (60°-80°)	86.2	1.4	B0/110		G0/110
BVH (80°-90°)	1.2	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°	884.5	884.5	884.5	884.5	884.5	884.5	884.5	884.5	884.5	884.5
2.5°	845.2	852.3	853.7	855.9	855.9	858.6	863.1	869.3	879.6	885.0
5°	779.0	784.4	791.1	796.4	806.7	808.1	825.5	842.5	866.2	884.1
7.5°	712.4	718.6	727.6	740.5	754.0	758.0	784.4	813.0	850.5	884.1
10°	665.4	665.9	673.9	686.9	708.3	713.3	745.5	786.1	833.1	878.7
12.5°	639.0	642.2	645.7	655.6	676.1	679.3	713.7	761.6	815.7	875.6
15°	639.0	641.3	643.5	648.4	665.0	667.6	698.1	745.9	806.7	876.9
17.5°	645.7	649.3	647.5	653.3	670.8	672.6	699.4	741.4	806.3	885.4
20°	661.8	664.5	660.9	664.5	682.0	685.5	713.3	749.9	813.9	900.2
22.5°	687.3	688.7	680.2	682.8	700.7	705.2	737.4	774.1	832.2	923.9
25°	719.5	722.2	709.2	712.4	729.4	734.7	771.8	810.3	861.3	956.5
27.5°	756.6	758.0	746.8	746.3	768.3	775.9	813.4	855.0	900.2	997.7
30°	799.1	803.1	792.4	790.6	818.3	824.6	861.7	910.0	957.4	1059.4
32.5°	832.7	835.8	829.5	834.0	862.2	867.1	920.3	987.8	1047.3	1147.0
35°	881.0	882.7	868.4	876.5	908.7	921.2	1000.3	1096.9	1160.4	1257.0
37.5°	1055.8	1055.8	995.0	955.2	986.0	997.2	1109.9	1234.2	1300.0	1404.6
40°	1297.7	1293.7	1204.7	1123.3	1119.3	1141.2	1266.0	1407.3	1480.2	1581.7
42.5°	1555.8	1549.5	1428.3	1347.8	1334.4	1342.0	1446.2	1620.6	1694.8	1797.7
45°	1784.7	1782.9	1672.0	1563.8	1539.7	1563.8	1671.1	1870.1	1923.3	2031.6
47.5°	1976.6	1976.6	1895.6	1825.0	1812.4	1826.7	1975.7	2146.9	2142.0	2280.6
50°	2197.5	2195.7	2118.8	2088.3	2101.3	2121.4	2326.2	2438.5	2368.3	2525.2
52.5°	2352.2	2362.9	2336.5	2331.6	2397.8	2432.7	2682.2	2723.8	2570.9	2757.3
55°	2474.7	2487.2	2517.6	2552.1	2679.5	2725.1	3027.0	2994.3	2740.3	2958.6
57.5°	2648.2	2630.3	2677.3	2745.3	2951.4	3006.4	3361.0	3249.7	2876.7	3121.8
60°	2858.8	2861.5	2869.6	2955.4	3222.9	3293.5	3690.2	3491.2	2964.4	3222.0
62.5°	3112.0	3116.0	3132.5	3264.4	3587.3	3653.9	4040.8	3688.8	3004.6	3193.8
65°	3094.5	3111.5	3296.2	3747.4	4141.4	4207.1	4449.9	3827.4	2943.8	2936.2
67.5°	2819.0	2846.8	3155.8	4324.3	4976.7	5050.0	4944.5	3854.7	2681.3	2283.3
70°	2457.7	2467.6	2839.2	4843.0	5944.0	6018.2	5387.2	3554.7	2034.7	1273.6
72.5°	1919.3	1921.5	2357.6	4963.3	6469.0	6473.0	5039.8	2638.8	1094.3	489.2
75°	1371.1	1357.6	1579.0	4025.1	5691.3	5736.9	3778.3	1237.8	418.1	231.2
77.5°	735.2	749.9	893.5	2387.1	3931.6	4009.4	2061.5	356.9	212.9	157.4
80°	227.2	239.7	366.2	1092.9	2227.0	2273.9	764.2	158.8	148.5	112.2
82.5°	71.5	74.2	170.8	459.3	924.3	945.8	221.4	89.9	101.5	74.2
85°	20.6	21.0	76.0	171.3	228.5	233.0	62.2	34.9	58.1	46.1
87.5°	2.2	7.2	28.6	28.6	20.1	19.7	6.7	7.6	16.5	5.8
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°
884.5	0°	884.5	884.5	884.5	884.5	884.5	884.5	884.5	884.5	884.5	884.5
888.6	2.5°	886.3	886.8	881.0	871.1	860.4	851.4	840.3	831.3	825.1	823.3
896.6	5°	892.6	889.4	872.9	842.9	807.2	776.3	741.9	714.6	696.7	689.1
905.1	7.5°	902.0	893.0	856.8	797.8	729.4	668.5	606.8	559.0	528.6	513.4
913.1	10°	910.0	892.1	830.0	732.5	627.8	535.7	452.5	394.9	362.7	347.5
922.5	12.5°	917.6	891.7	795.1	655.1	513.4	400.7	323.3	294.7	285.8	282.6
937.7	15°	931.9	893.0	751.3	566.6	399.3	302.7	274.6	274.1	275.9	275.0
961.0	17.5°	951.6	894.4	701.6	472.7	308.1	267.0	265.6	269.7	272.3	271.0
990.1	20°	977.1	899.7	648.9	379.7	264.7	258.0	261.2	264.7	267.0	264.7
1029.0	22.5°	1012.9	909.1	591.2	305.0	250.9	252.7	255.3	259.4	261.6	258.5
1078.6	25°	1056.7	923.9	534.4	265.2	244.2	246.4	250.4	254.9	257.6	254.4
1141.2	27.5°	1113.5	947.6	482.1	256.2	237.5	238.8	244.6	251.3	254.9	250.9
1230.2	30°	1195.8	986.5	436.9	260.3	233.4	230.3	238.3	247.7	251.8	248.2
1351.4	32.5°	1304.9	1041.5	409.2	266.5	231.6	220.5	228.1	240.1	246.8	244.6
1509.7	35°	1448.0	1125.1	398.4	273.7	230.3	210.2	215.5	228.5	240.1	242.4
1709.1	37.5°	1621.5	1241.4	401.6	276.8	226.3	201.7	204.4	215.5	230.7	237.9
1933.6	40°	1818.7	1376.9	419.5	273.7	221.8	194.5	195.0	203.5	216.9	227.6
2175.1	42.5°	2022.2	1535.2	452.5	262.0	217.8	188.3	186.9	192.7	201.7	209.3
2416.1	45°	2215.8	1698.0	485.2	246.0	212.9	182.0	178.9	181.1	182.9	186.0
2650.9	47.5°	2384.8	1812.4	475.8	231.2	206.2	174.8	169.5	168.6	163.2	162.8
2860.6	50°	2501.5	1837.5	422.6	216.4	196.3	166.8	158.3	152.9	143.5	139.1
3017.6	52.5°	2538.7	1738.7	345.2	201.7	180.2	156.1	144.0	135.5	123.9	119.8
3107.9	55°	2489.5	1545.0	275.9	183.8	157.9	141.8	128.3	117.2	107.8	102.9
3117.8	57.5°	2369.2	1298.6	218.2	162.8	134.2	125.7	112.2	101.1	93.0	88.1
3008.7	60°	2169.7	1031.2	172.6	137.7	114.5	108.2	94.4	87.2	80.0	74.2
2726.9	62.5°	1867.0	736.1	135.5	109.1	95.7	88.5	80.5	75.1	66.6	58.6
2220.3	65°	1456.9	450.3	104.6	80.0	76.9	73.3	68.4	63.5	53.2	45.2
1448.4	67.5°	919.0	213.3	74.7	60.4	60.8	59.0	56.8	52.8	45.2	38.0
648.9	70°	404.7	103.3	49.2	46.1	45.2	45.2	47.0	45.6	38.5	31.8
225.4	72.5°	137.7	55.5	36.7	34.9	32.6	32.2	39.4	38.0	30.9	24.6
112.2	75°	72.0	37.1	26.8	25.0	19.7	23.7	31.3	29.5	21.9	16.1
74.2	77.5°	47.0	26.4	18.3	16.1	11.2	15.7	23.3	20.6	13.0	8.0
48.7	80°	29.5	17.4	10.7	7.6	5.4	8.5	12.5	8.9	4.9	1.8
28.6	82.5°	15.7	8.9	4.0	2.7	2.2	2.7	3.1	2.2	0.9	0.0
14.8	85°	6.3	3.1	1.3	0.9	0.4	0.0	0.9	0.4	0.0	0.0
2.7	87.5°	2.2	0.4	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>
884.5
826.4
691.8
515.6
347.9
281.7
274.6
270.5
264.3
258.0
254.0
250.9
247.7
244.6
242.4
239.7
231.2
212.4
187.8
162.3
139.5
119.4
102.9
87.2
72.9
57.2
43.8
37.1
30.4
23.3
14.8
7.2
1.3
0.0
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