

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: P940158

Luminaire Tested: **GALN-SB3A-830-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940158  
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-SB3A-830-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

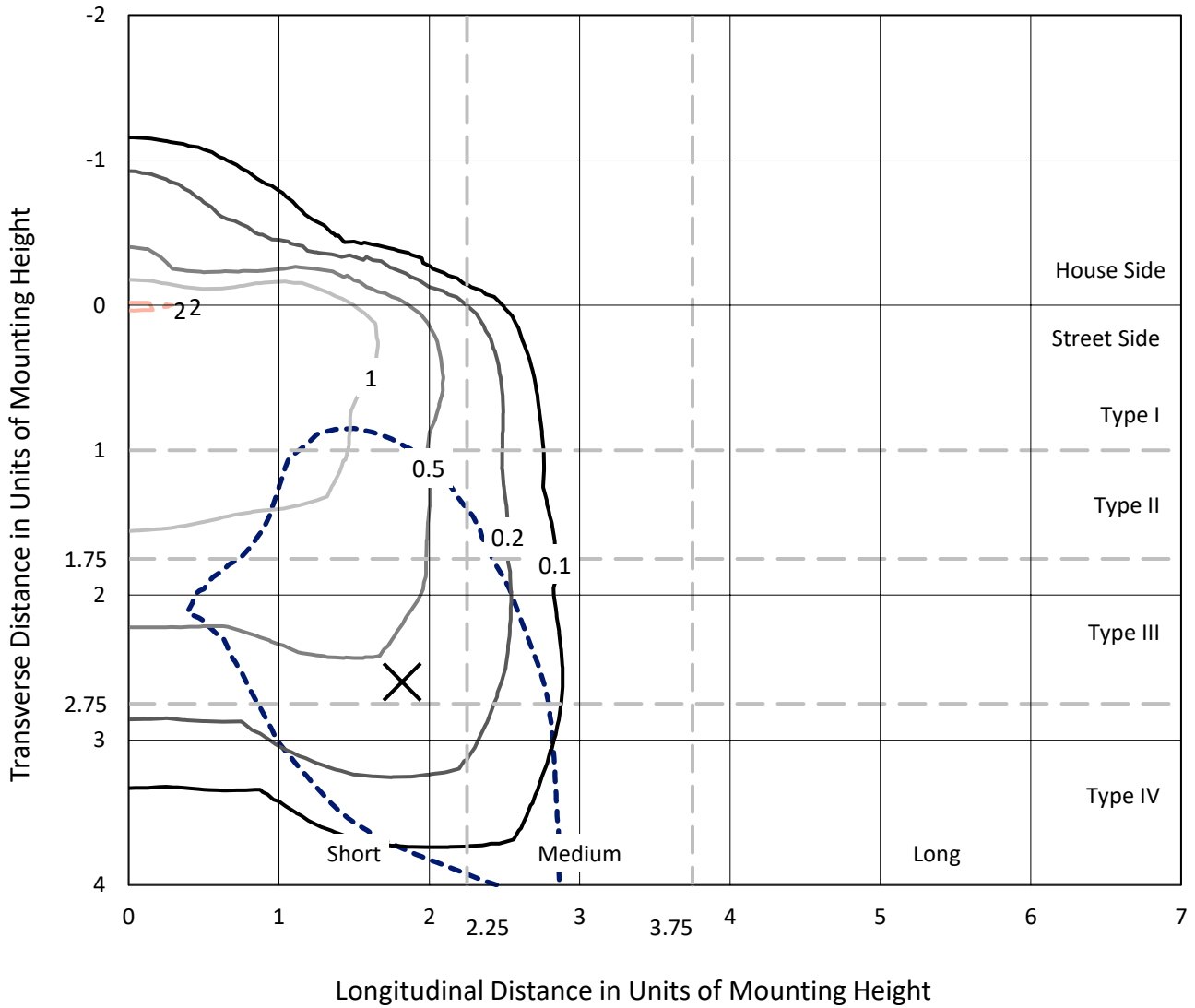
Lumens per Lamp: N/A  
Luminaire Lumens: 9157 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

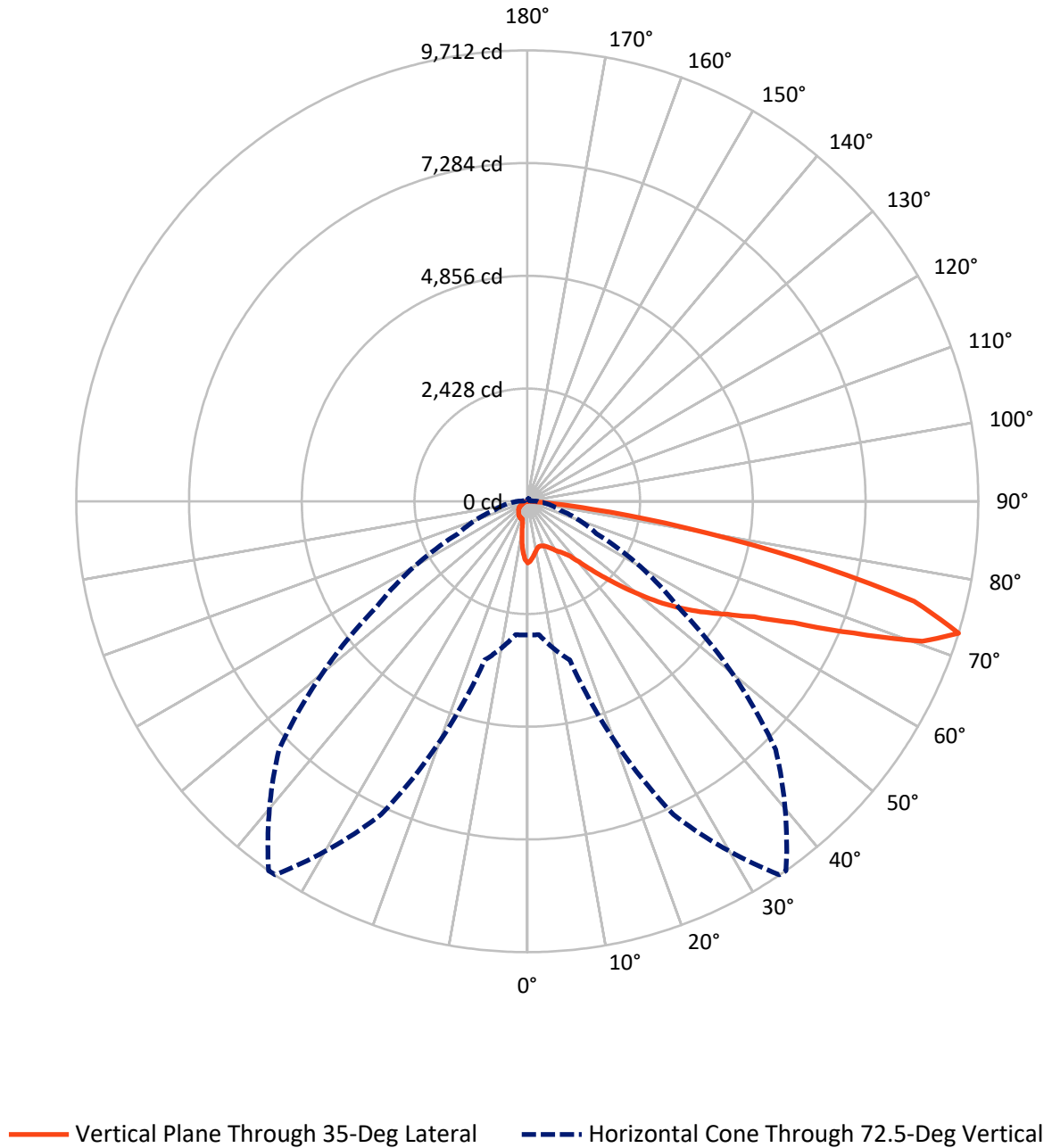
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	1030.6	0.0	1030.6
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	8126.4	0.0	8126.4
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	9157.0	0.0	9157.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.1	1.2
10°-20°	255.1	2.8
20°-30°	414.4	4.5
30°-40°	691.5	7.6
40°-50°	1308.3	14.3
50°-60°	2078.9	22.7
60°-70°	2571.8	28.1
70°-80°	1598.6	17.5
80°-90°	129.2	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°	9157.0	100.0
0°-180°	9157.0	100.0

**Coefficient of Utilization**



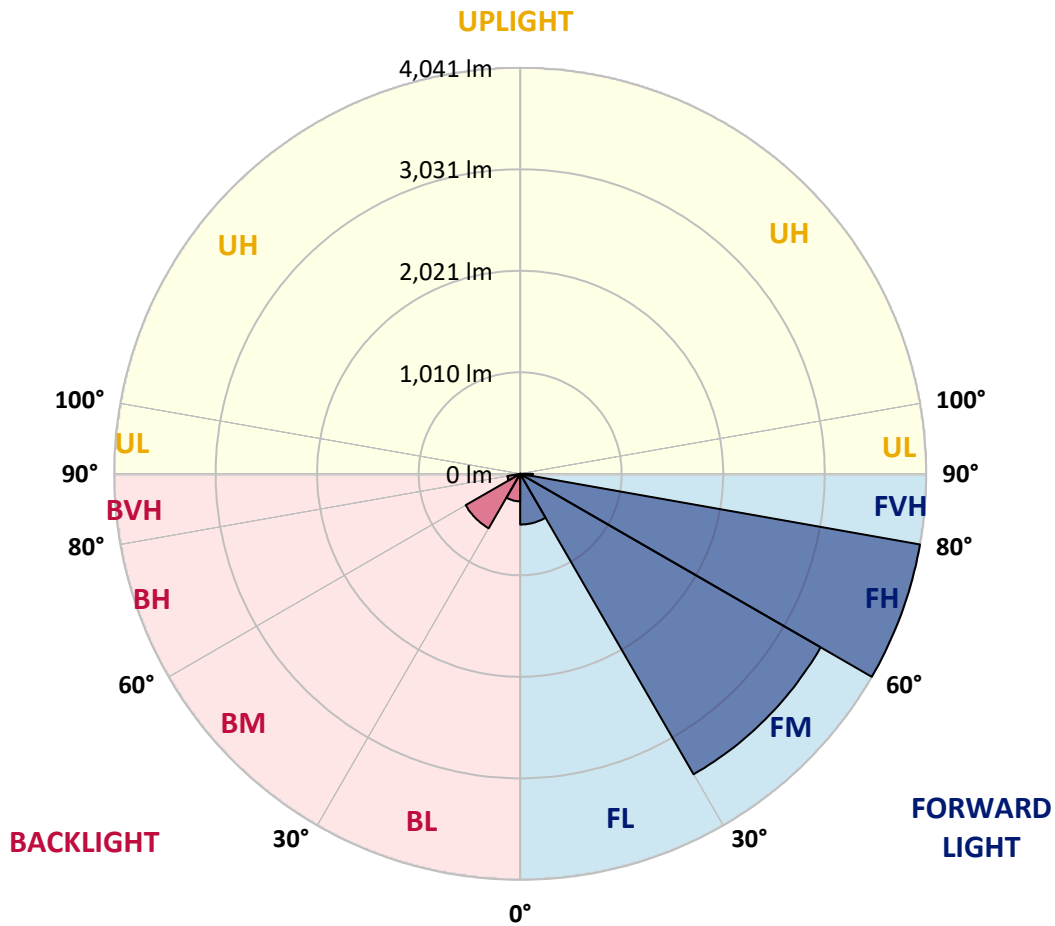
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	504.8	5.5			
FM (30°-60°)	3453.1	37.7			
FH (60°-80°)	4041.1	44.1			G2/5000
FVH (80°-90°)	127.4	1.4			G2/225
BL (0°-30°)	273.8	3.0	B1/500		
BM (30°-60°)	625.7	6.8	B1/1000		
BH (60°-80°)	129.3	1.4	B1/500		G1/500
BVH (80°-90°)	1.8	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°	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2
2.5°	1268.1	1278.8	1280.9	1284.2	1284.2	1288.2	1295.0	1304.3	1319.8	1327.8
5°	1168.8	1176.9	1186.9	1195.0	1210.4	1212.4	1238.6	1264.1	1299.6	1326.5
7.5°	1068.8	1078.2	1091.6	1111.1	1131.2	1137.3	1176.9	1219.8	1276.2	1326.5
10°	998.4	999.1	1011.1	1030.6	1062.8	1070.2	1118.5	1179.5	1250.0	1318.4
12.5°	958.8	963.5	968.9	983.6	1014.5	1019.2	1070.9	1142.6	1223.8	1313.7
15°	958.8	962.2	965.5	972.9	997.7	1001.7	1047.4	1119.2	1210.4	1315.8
17.5°	968.9	974.2	971.5	980.3	1006.4	1009.1	1049.4	1112.4	1209.7	1328.5
20°	993.0	997.0	991.7	997.0	1023.2	1028.6	1070.2	1125.2	1221.1	1350.6
22.5°	1031.3	1033.3	1020.5	1024.6	1051.4	1058.1	1106.4	1161.4	1248.7	1386.2
25°	1079.6	1083.6	1064.1	1068.8	1094.3	1102.4	1158.1	1215.8	1292.3	1435.2
27.5°	1135.3	1137.3	1120.5	1119.8	1152.7	1164.1	1220.5	1282.9	1350.6	1496.9
30°	1199.0	1205.0	1188.9	1186.3	1227.9	1237.2	1292.9	1365.4	1436.5	1589.5
32.5°	1249.3	1254.0	1244.6	1251.3	1293.6	1301.0	1380.8	1482.1	1571.4	1721.0
35°	1321.8	1324.5	1303.0	1315.1	1363.4	1382.2	1500.9	1645.9	1741.1	1886.1
37.5°	1584.1	1584.1	1492.9	1433.2	1479.5	1496.2	1665.3	1851.8	1950.5	2107.5
40°	1947.1	1941.1	1807.6	1685.4	1679.4	1712.3	1899.5	2111.5	2220.9	2373.2
42.5°	2334.3	2324.9	2143.0	2022.3	2002.1	2013.5	2169.9	2431.6	2542.9	2697.3
45°	2677.8	2675.1	2508.7	2346.3	2310.1	2346.3	2507.4	2805.9	2885.8	3048.2
47.5°	2965.6	2965.6	2844.2	2738.2	2719.4	2740.9	2964.3	3221.3	3213.9	3421.9
50°	3297.1	3294.4	3179.0	3133.4	3152.8	3183.0	3490.3	3658.7	3553.4	3788.9
52.5°	3529.2	3545.3	3505.8	3498.4	3597.7	3650.0	4024.4	4086.8	3857.3	4137.1
55°	3713.1	3731.9	3777.5	3829.2	4020.4	4088.8	4541.7	4492.7	4111.6	4439.1
57.5°	3973.4	3946.6	4017.0	4119.0	4428.3	4510.9	5042.9	4875.9	4316.3	4684.0
60°	4289.4	4293.5	4305.5	4434.4	4835.6	4941.6	5536.8	5238.2	4447.8	4834.3
62.5°	4669.2	4675.2	4700.1	4898.0	5382.4	5482.4	6062.8	5534.7	4508.2	4792.0
65°	4643.0	4668.5	4945.6	5622.6	6213.7	6312.4	6676.7	5742.7	4416.9	4405.5
67.5°	4229.7	4271.3	4735.0	6488.2	7467.1	7577.1	7418.8	5783.7	4023.1	3425.9
70°	3687.6	3702.4	4259.9	7266.5	8918.4	9029.8	8083.0	5333.5	3052.9	1910.9
72.5°	2879.8	2883.1	3537.3	7447.0	9706.1	9712.1	7561.7	3959.3	1641.8	734.0
75°	2057.2	2037.0	2369.2	6039.3	8539.3	8607.7	5668.9	1857.2	627.3	346.9
77.5°	1103.1	1125.2	1340.6	3581.6	5899.1	6015.8	3093.1	535.4	319.4	236.2
80°	340.8	359.6	549.5	1639.8	3341.4	3411.8	1146.7	238.2	222.8	168.4
82.5°	107.4	111.4	256.3	689.1	1386.9	1419.1	332.1	134.9	152.3	111.4
85°	30.9	31.5	114.1	257.0	342.9	349.6	93.3	52.3	87.2	69.1
87.5°	3.4	10.7	42.9	42.9	30.2	29.5	10.1	11.4	24.8	8.7
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°
1327.2	0°	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2
1333.2	2.5°	1329.8	1330.5	1321.8	1307.0	1290.9	1277.5	1260.7	1247.3	1237.9	1235.2
1345.3	5°	1339.2	1334.5	1309.7	1264.8	1211.1	1164.8	1113.1	1072.2	1045.4	1033.9
1358.0	7.5°	1353.3	1339.9	1285.6	1197.0	1094.3	1003.1	910.5	838.7	793.1	770.3
1370.1	10°	1365.4	1338.6	1245.3	1099.0	942.0	803.8	679.0	592.5	544.1	521.3
1384.2	12.5°	1376.8	1337.9	1193.0	983.0	770.3	601.2	485.1	442.2	428.7	424.0
1407.0	15°	1398.3	1339.9	1127.2	850.1	599.2	454.2	412.0	411.3	414.0	412.6
1441.9	17.5°	1427.8	1341.9	1052.7	709.2	462.3	400.6	398.5	404.6	408.6	406.6
1485.5	20°	1466.0	1350.0	973.6	569.6	397.2	387.1	391.8	397.2	400.6	397.2
1543.9	22.5°	1519.7	1364.1	887.0	457.6	376.4	379.1	383.1	389.2	392.5	387.8
1618.4	25°	1585.5	1386.2	801.8	397.9	366.3	369.7	375.7	382.4	386.5	381.8
1712.3	27.5°	1670.7	1421.8	723.3	384.5	356.3	358.3	367.0	377.1	382.4	376.4
1845.8	30°	1794.1	1480.1	655.5	390.5	350.2	345.5	357.6	371.7	377.7	372.4
2027.6	32.5°	1957.9	1562.7	613.9	399.9	347.6	330.8	342.2	360.3	370.4	367.0
2265.2	35°	2172.6	1688.1	597.8	410.6	345.5	315.4	323.4	342.9	360.3	363.7
2564.4	37.5°	2432.9	1862.6	602.5	415.3	339.5	302.6	306.6	323.4	346.2	357.0
2901.2	40°	2728.8	2065.9	629.4	410.6	332.8	291.9	292.5	305.3	325.4	341.5
3263.5	42.5°	3034.1	2303.4	679.0	393.2	326.8	282.5	280.5	289.2	302.6	314.0
3625.2	45°	3324.6	2547.6	728.0	369.0	319.4	273.1	268.4	271.7	274.4	279.1
3977.4	47.5°	3578.2	2719.4	713.9	346.9	309.3	262.3	254.3	253.0	244.9	244.2
4292.1	50°	3753.3	2757.0	634.1	324.7	294.6	250.3	237.5	229.5	215.4	208.7
4527.6	52.5°	3809.0	2608.7	518.0	302.6	270.4	234.2	216.0	203.3	185.9	179.8
4663.2	55°	3735.2	2318.2	414.0	275.8	236.8	212.7	192.6	175.8	161.7	154.3
4677.9	57.5°	3554.7	1948.5	327.4	244.2	201.3	188.5	168.4	151.6	139.6	132.2
4514.2	60°	3255.5	1547.2	259.0	206.7	171.8	162.4	141.6	130.8	120.1	111.4
4091.5	62.5°	2801.3	1104.4	203.3	163.7	143.6	132.8	120.8	112.7	100.0	87.9
3331.3	65°	2186.0	675.7	157.0	120.1	115.4	110.0	102.7	95.3	79.8	67.8
2173.2	67.5°	1378.8	320.0	112.1	90.6	91.3	88.6	85.2	79.2	67.8	57.0
973.6	70°	607.2	155.0	73.8	69.1	67.8	67.8	70.5	68.4	57.7	47.6
338.2	72.5°	206.7	83.2	55.0	52.3	49.0	48.3	59.0	57.0	46.3	36.9
168.4	75°	108.0	55.7	40.3	37.6	29.5	35.6	47.0	44.3	32.9	24.2
111.4	77.5°	70.5	39.6	27.5	24.2	16.8	23.5	34.9	30.9	19.5	12.1
73.1	80°	44.3	26.2	16.1	11.4	8.1	12.7	18.8	13.4	7.4	2.7
42.9	82.5°	23.5	13.4	6.0	4.0	3.4	4.0	4.7	3.4	1.3	0.0
22.1	85°	9.4	4.7	2.0	1.3	0.7	0.0	1.3	0.7	0.0	0.0
4.0	87.5°	3.4	0.7	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>
1327.2
1239.9
1038.0
773.6
522.0
422.7
412.0
405.9
396.5
387.1
381.1
376.4
371.7
367.0
363.7
359.6
346.9
318.7
281.8
243.6
209.3
179.1
154.3
130.8
109.4
85.9
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