

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: P945983

Luminaire Tested: **GALN-SB1D-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7841 lumens
Efficiency: N/A
Efficacy: 98.5 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

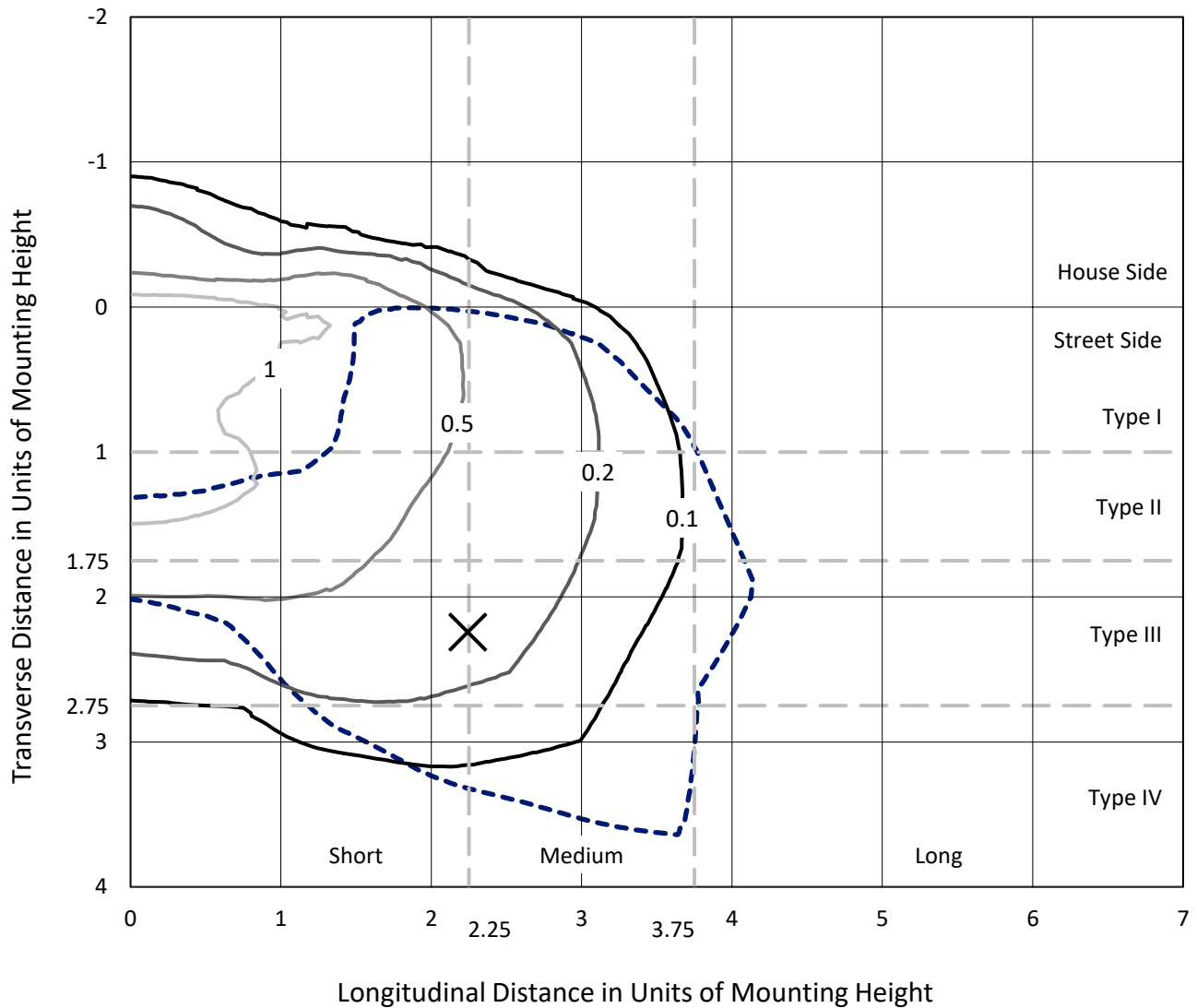
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

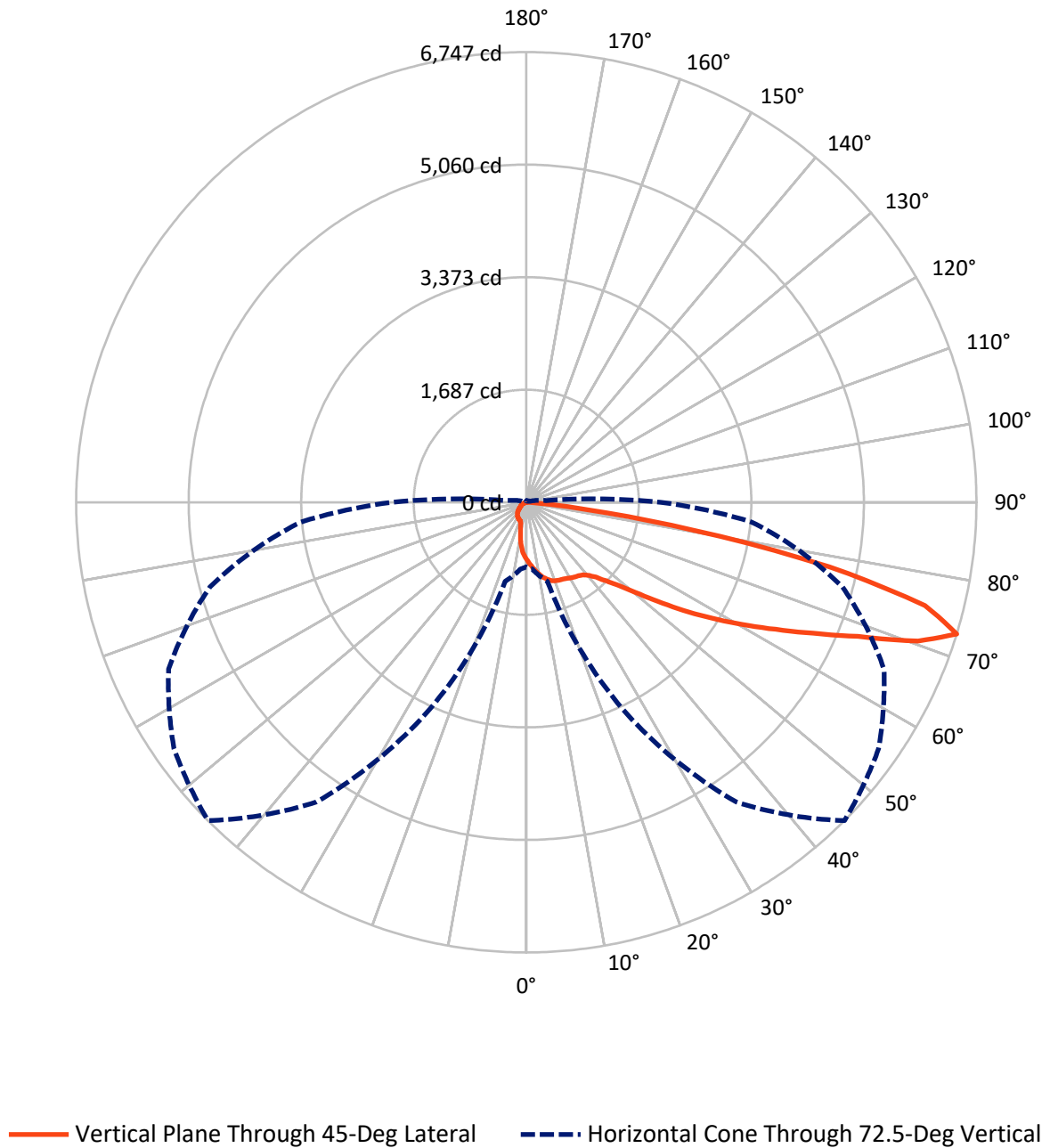
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	823.9	0.0	823.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	7017.1	0.0	7017.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	7841.0	0.0	7841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	1.0
10°-20°	236.5	3.0
20°-30°	388.4	5.0
30°-40°	550.9	7.0
40°-50°	910.6	11.6
50°-60°	1635.7	20.9
60°-70°	2271.3	29.0
70°-80°	1647.5	21.0
80°-90°	119.1	1.5
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°	7841.0	100.0
0°-180°	7841.0	100.0

Coefficient of Utilization



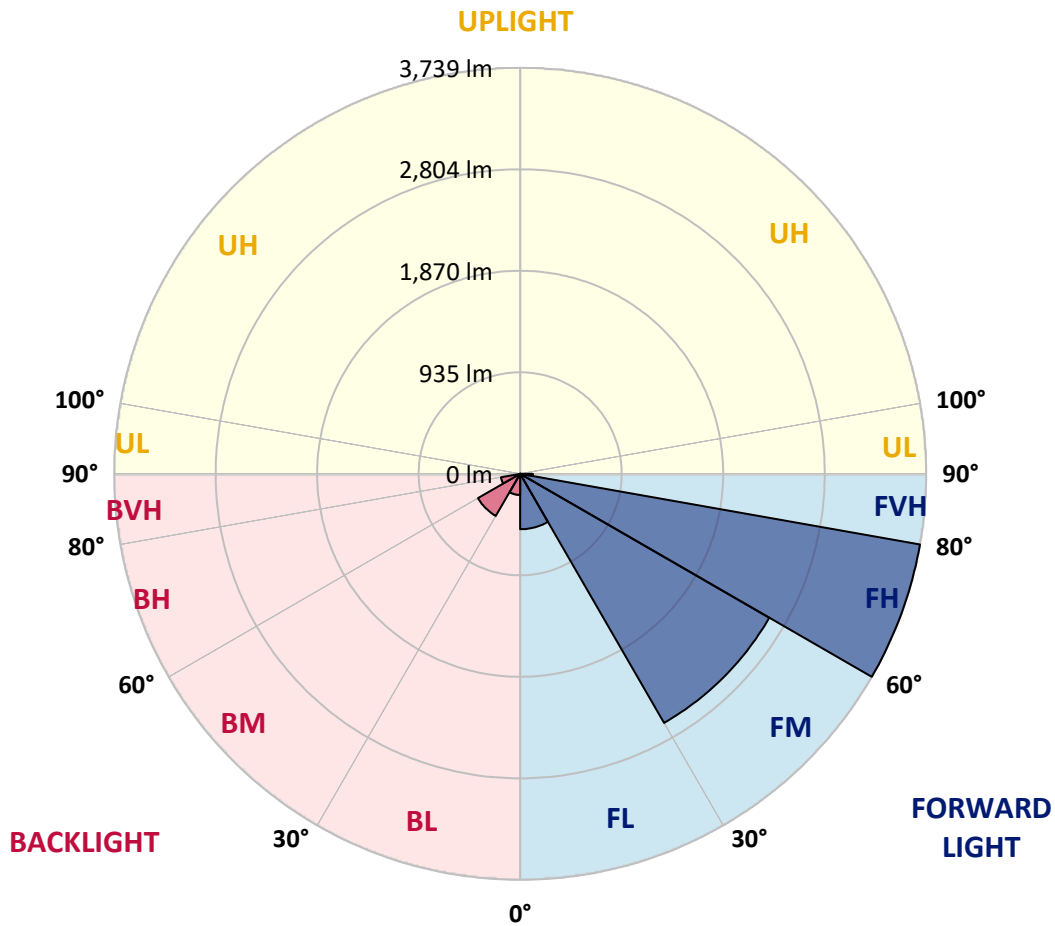
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	510.8	6.5			
FM (30°-60°)	2649.1	33.8			
FH (60°-80°)	3739.2	47.7			G2/5000
FVH (80°-90°)	118.1	1.5			G2/225
BL (0°-30°)	195.1	2.5	B1/500		
BM (30°-60°)	448.1	5.7	B1/1000		
BH (60°-80°)	179.7	2.3	B1/500		G1/500
BVH (80°-90°)	1.0	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°	35°	45°	46°	55°	65°	75°
0°	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0
2.5°	938.2	939.8	938.7	932.3	921.6	915.7	912.5	901.8	894.9	882.5
5°	1024.4	1030.8	1027.1	1014.2	993.9	979.4	975.1	953.2	933.4	910.4
7.5°	1115.9	1119.1	1112.1	1095.6	1068.3	1043.6	1039.9	1009.4	977.8	942.5
10°	1195.1	1198.9	1188.1	1164.1	1133.0	1102.5	1097.2	1063.4	1026.0	982.6
12.5°	1261.5	1265.2	1251.3	1222.4	1188.1	1156.6	1151.2	1115.9	1074.7	1026.5
15°	1311.8	1318.7	1300.0	1269.0	1232.0	1200.5	1197.8	1163.0	1122.9	1069.3
17.5°	1341.2	1348.2	1330.5	1293.0	1261.5	1234.7	1231.5	1202.6	1165.1	1113.8
20°	1346.0	1352.5	1333.7	1301.1	1274.8	1253.4	1251.8	1231.0	1203.7	1154.4
22.5°	1331.6	1339.6	1322.5	1296.3	1278.1	1266.8	1264.7	1252.9	1237.4	1195.6
25°	1316.6	1323.0	1310.2	1287.2	1277.5	1276.5	1278.1	1275.9	1272.7	1237.4
27.5°	1315.5	1322.5	1308.0	1286.1	1280.7	1292.0	1293.6	1303.8	1306.4	1275.4
30°	1324.6	1329.4	1315.5	1292.5	1289.8	1315.5	1316.1	1334.3	1338.5	1307.5
32.5°	1344.4	1349.8	1335.9	1302.1	1298.4	1334.3	1335.9	1359.9	1366.9	1341.7
35°	1391.0	1397.4	1381.4	1328.9	1315.5	1351.9	1356.7	1385.1	1399.0	1378.1
37.5°	1507.1	1488.4	1466.5	1383.0	1354.6	1379.7	1387.8	1421.0	1445.6	1421.5
40°	1795.6	1736.7	1668.2	1475.0	1423.1	1439.2	1445.6	1478.8	1512.5	1488.9
42.5°	2228.6	2159.0	2048.8	1687.0	1526.4	1534.4	1539.2	1568.1	1615.8	1597.0
45°	2614.5	2589.3	2476.9	2048.8	1719.6	1680.0	1685.9	1700.9	1771.0	1764.0
47.5°	2911.0	2896.5	2809.8	2464.1	2046.1	1858.2	1874.8	1881.8	1982.9	2007.5
50°	3139.0	3133.6	3056.0	2833.4	2472.6	2121.0	2126.9	2111.9	2263.4	2324.4
52.5°	3354.1	3372.3	3315.0	3176.4	2928.1	2465.1	2464.1	2393.4	2597.9	2689.9
55°	3548.4	3554.8	3560.7	3526.4	3386.2	2856.9	2846.7	2731.1	2985.9	3081.2
57.5°	3730.9	3733.6	3786.0	3856.1	3863.1	3277.6	3258.8	3120.2	3409.8	3477.7
60°	3853.5	3865.8	3976.5	4171.4	4256.5	3711.6	3701.5	3560.2	3841.1	3872.7
62.5°	3676.8	3751.8	4031.1	4417.6	4627.9	4192.8	4188.0	4055.2	4295.0	4269.3
65°	2976.3	3103.1	3594.4	4584.0	4992.4	4730.1	4737.1	4595.8	4761.2	4677.7
67.5°	2081.9	2215.7	2797.0	4597.4	5399.6	5361.1	5401.3	5179.7	5256.2	5068.9
70°	1439.7	1508.7	1887.1	4309.4	5717.0	6230.3	6229.2	5896.8	5748.6	5247.1
72.5°	968.2	1004.0	1225.6	3418.9	5483.7	6746.7	6715.7	6444.9	5914.5	4907.3
75°	408.4	434.6	567.3	1921.4	4338.3	6172.5	6088.5	5695.6	5255.1	3864.2
77.5°	129.5	140.8	223.7	687.7	2389.7	4639.7	4550.8	3556.9	3522.2	1938.5
80°	61.5	71.7	125.8	276.2	940.3	2523.5	2511.2	1613.6	1515.2	523.4
82.5°	26.8	31.6	69.6	147.7	420.7	900.2	918.4	549.1	454.4	198.6
85°	8.6	11.2	32.1	68.0	177.7	223.7	221.0	130.6	183.0	108.1
87.5°	0.0	0.0	10.7	15.5	18.2	12.8	14.5	11.2	50.8	30.0
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°
859.0	0°	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0
869.7	2.5°	863.3	854.7	839.7	825.8	813.5	801.2	793.7	783.0	781.9	781.9
883.6	5°	869.2	855.3	828.5	800.1	767.5	736.4	705.4	675.4	665.8	658.8
906.1	7.5°	886.3	864.4	822.1	768.0	705.9	638.0	590.3	538.9	519.1	508.4
936.1	10°	910.9	880.9	816.7	722.0	621.4	528.8	460.8	405.1	383.7	374.6
968.7	12.5°	938.2	901.3	807.1	664.7	528.8	418.0	351.6	325.9	322.7	322.7
1007.8	15°	970.9	925.9	790.5	597.3	431.9	330.8	307.2	308.3	311.5	313.6
1045.8	17.5°	1004.6	952.1	764.3	521.8	346.3	297.6	298.1	299.7	302.4	304.5
1087.0	20°	1041.0	978.3	729.5	441.5	297.0	287.9	289.5	291.1	293.3	294.4
1125.5	22.5°	1080.0	1003.0	688.3	362.9	280.4	279.9	280.4	282.1	284.7	284.7
1170.5	25°	1121.8	1030.3	641.2	305.6	271.9	271.9	273.0	274.0	276.2	276.2
1213.8	27.5°	1164.6	1055.4	591.4	275.6	264.4	263.9	263.9	265.5	266.5	267.1
1256.7	30°	1211.7	1084.9	541.6	269.2	258.5	255.8	254.2	255.3	256.4	256.9
1301.6	32.5°	1259.9	1113.2	497.2	271.9	252.6	247.8	242.4	241.4	241.4	243.5
1348.2	35°	1313.4	1144.3	462.9	281.0	249.4	236.0	227.5	222.6	223.2	226.4
1403.8	37.5°	1377.6	1181.7	437.8	289.0	247.3	222.6	208.7	202.8	199.1	202.8
1480.4	40°	1461.6	1236.9	419.6	295.4	244.6	207.1	188.4	178.8	171.8	173.9
1599.2	42.5°	1585.3	1323.6	412.6	296.0	238.7	188.9	167.5	154.7	144.5	145.0
1777.9	45°	1758.7	1460.6	448.5	289.0	225.9	169.1	145.6	128.4	122.0	120.4
2045.0	47.5°	1996.3	1660.2	531.5	274.6	207.1	149.9	124.2	109.7	104.9	102.2
2395.6	50°	2314.7	1916.6	623.5	258.5	188.4	131.7	106.5	97.4	94.2	91.5
2811.4	52.5°	2684.0	2176.7	699.0	242.4	169.7	115.6	95.3	89.9	87.2	85.1
3212.8	55°	3022.8	2356.0	694.7	225.3	151.5	102.8	87.2	84.0	80.8	78.7
3558.6	57.5°	3233.7	2381.1	572.7	206.6	130.6	92.6	79.7	77.6	73.9	71.2
3857.7	60°	3330.6	2237.7	401.4	182.0	109.7	83.0	71.7	70.6	65.8	62.1
4140.9	62.5°	3348.2	1971.1	267.6	151.5	91.5	73.9	63.7	62.1	55.7	49.2
4371.0	65°	3276.5	1590.1	185.2	118.3	78.1	64.2	54.6	51.4	44.4	38.0
4425.6	67.5°	3049.6	1116.4	129.0	85.1	66.4	50.8	43.4	42.3	36.9	31.6
4147.3	70°	2633.7	636.4	86.2	63.7	52.4	34.8	34.3	35.3	30.0	25.7
3388.4	72.5°	2019.3	291.1	53.5	46.6	35.9	23.5	27.3	27.8	23.0	19.3
2114.0	75°	1188.7	124.7	33.7	30.0	18.2	15.5	19.8	20.3	15.5	12.3
772.8	77.5°	404.6	47.1	21.4	17.7	9.1	8.6	12.8	12.8	8.6	4.8
155.2	80°	92.1	17.7	10.7	7.0	4.3	3.7	4.3	3.7	2.1	0.5
47.6	82.5°	26.2	7.0	4.3	2.7	1.6	1.6	0.5	0.0	0.0	0.0
16.6	85°	7.5	3.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
5.9	87.5°	3.2	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>
859.0
784.6
662.0
510.0
374.6
322.7
313.6
304.5
294.9
285.8
276.7
267.6
258.0
245.1
228.0
201.8
172.9
142.9
118.3
100.6
91.0
84.6
77.6
70.6
61.0
46.0
35.9
30.0
23.5
17.1
10.7
3.7
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