

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: P948314

Luminaire Tested: **GALN-SB3B-927-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948314  
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-SB3B-927-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

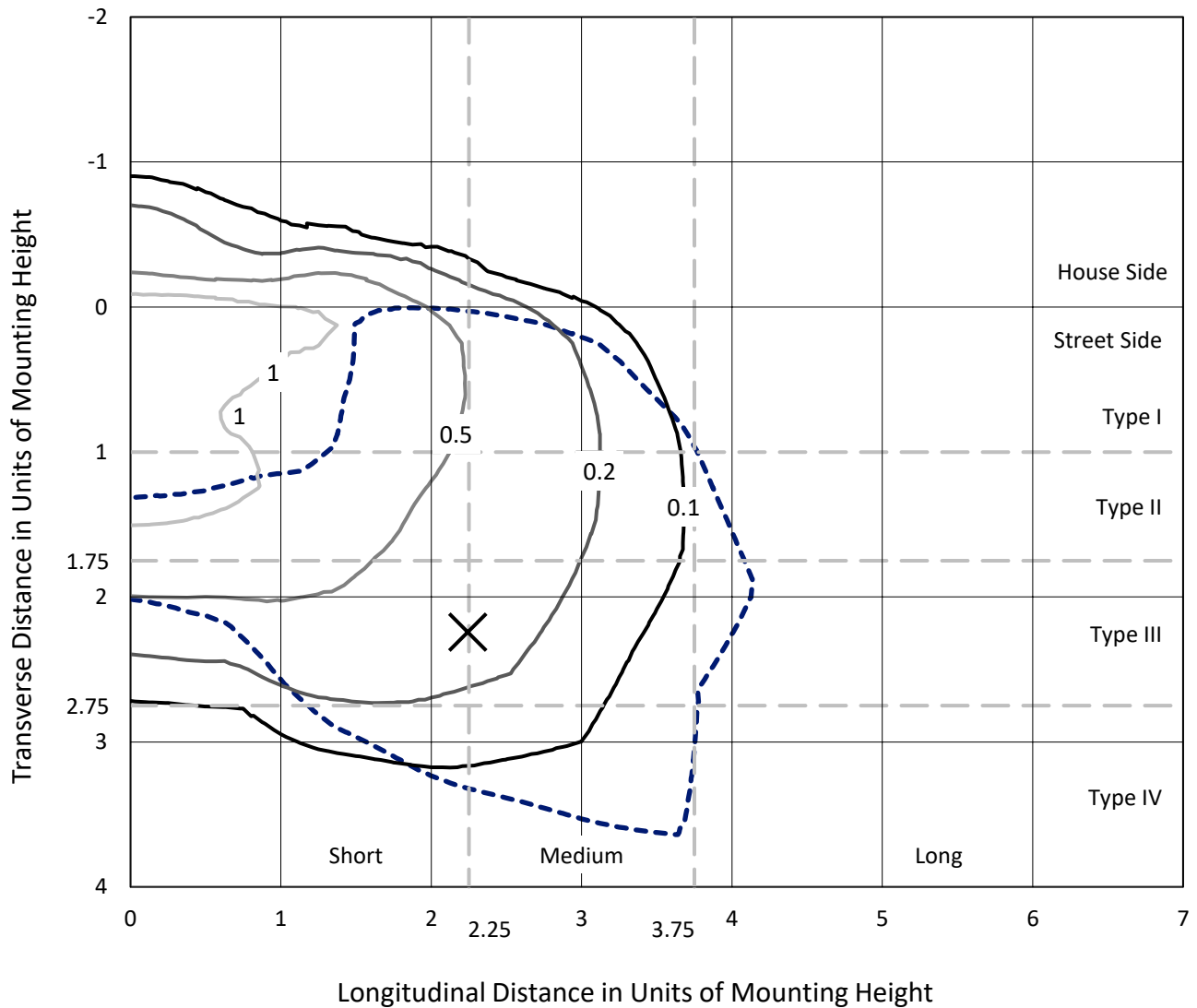
Lumens per Lamp: N/A  
Luminaire Lumens: 7922 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

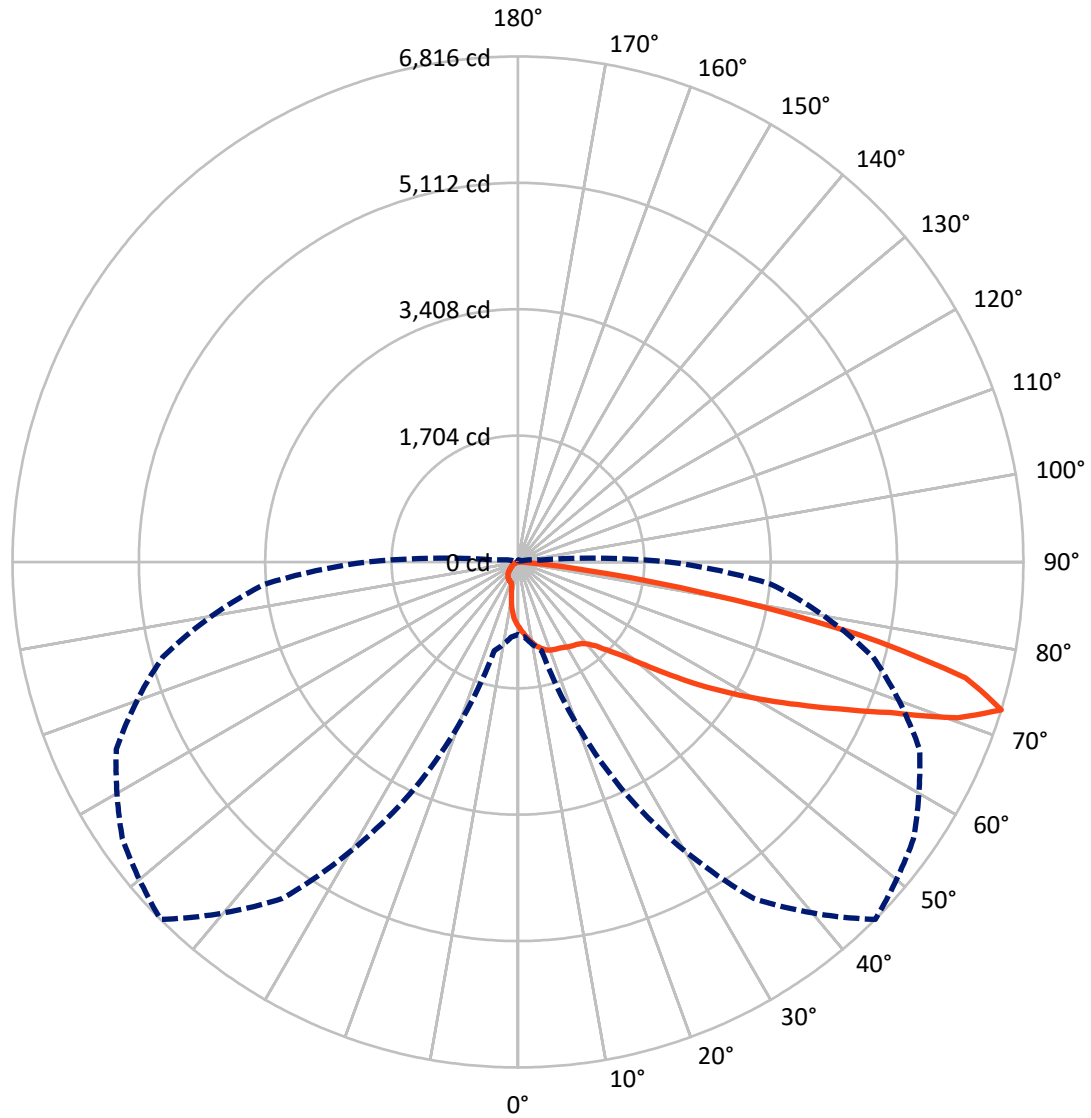
✕ Max cd  
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	832.4	0.0	832.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	7089.6	0.0	7089.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	7922.0	0.0	7922.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.8	1.0
10°-20°	239.0	3.0
20°-30°	392.4	5.0
30°-40°	556.6	7.0
40°-50°	920.0	11.6
50°-60°	1652.6	20.9
60°-70°	2294.8	29.0
70°-80°	1664.5	21.0
80°-90°	120.3	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°	7922.0	100.0
0°-180°	7922.0	100.0

**Coefficient of Utilization**



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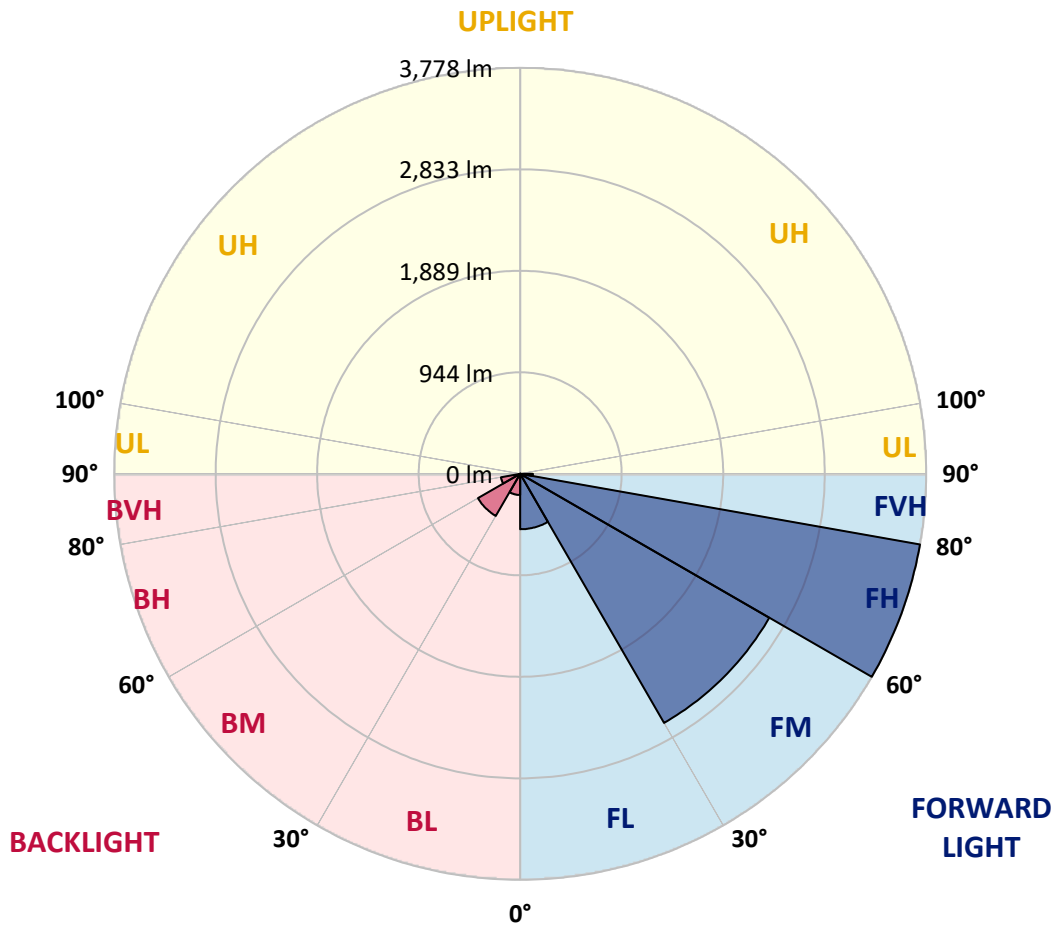
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	516.0	6.5			
FM (30°-60°)	2676.5	33.8			
FH (60°-80°)	3777.8	47.7			G2/5000
FVH (80°-90°)	119.3	1.5			G2/225
BL (0°-30°)	197.2	2.5	B1/500		
BM (30°-60°)	452.7	5.7	B1/1000		
BH (60°-80°)	181.5	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°	867.9	867.9	867.9	867.9	867.9	867.9	867.9	867.9	867.9	867.9
2.5°	947.9	949.5	948.4	942.0	931.1	925.2	921.9	911.1	904.1	891.7
5°	1035.0	1041.4	1037.7	1024.7	1004.1	989.5	985.2	963.0	943.0	919.8
7.5°	1127.4	1130.7	1123.6	1106.9	1079.3	1054.4	1050.6	1019.8	987.9	952.2
10°	1207.5	1211.2	1200.4	1176.1	1144.7	1113.9	1108.5	1074.4	1036.6	992.8
12.5°	1274.5	1278.3	1264.2	1235.0	1200.4	1168.5	1163.1	1127.4	1085.8	1037.1
15°	1325.3	1332.4	1313.4	1282.1	1244.8	1212.9	1210.2	1175.0	1134.5	1080.4
17.5°	1355.1	1362.1	1344.3	1306.4	1274.5	1247.5	1244.2	1215.0	1177.2	1125.3
20°	1359.9	1366.4	1347.5	1314.5	1288.0	1266.4	1264.8	1243.7	1216.1	1166.4
22.5°	1345.3	1353.4	1336.1	1309.6	1291.3	1279.9	1277.7	1265.8	1250.2	1208.0
25°	1330.2	1336.7	1323.7	1300.5	1290.7	1289.6	1291.3	1289.1	1285.9	1250.2
27.5°	1329.1	1336.1	1321.5	1299.4	1294.0	1305.3	1306.9	1317.2	1319.9	1288.6
30°	1338.3	1343.2	1329.1	1305.9	1303.2	1329.1	1329.7	1348.0	1352.4	1321.0
32.5°	1358.3	1363.7	1349.7	1315.6	1311.8	1348.0	1349.7	1374.0	1381.0	1355.6
35°	1405.4	1411.8	1395.6	1342.6	1329.1	1365.9	1370.8	1399.4	1413.5	1392.4
37.5°	1522.7	1503.8	1481.6	1397.2	1368.6	1394.0	1402.1	1435.6	1460.5	1436.2
40°	1814.1	1754.7	1685.5	1490.3	1437.8	1454.0	1460.5	1494.0	1528.1	1504.3
42.5°	2251.6	2181.3	2069.9	1704.4	1542.2	1550.3	1555.1	1584.3	1632.5	1613.5
45°	2641.5	2616.1	2502.5	2069.9	1737.4	1697.4	1703.3	1718.4	1789.3	1782.2
47.5°	2941.0	2926.4	2838.8	2489.5	2067.2	1877.4	1894.2	1901.2	2003.4	2028.3
50°	3171.4	3166.0	3087.6	2862.6	2498.2	2142.9	2148.9	2133.7	2286.7	2348.4
52.5°	3388.8	3407.1	3349.3	3209.2	2958.3	2490.6	2489.5	2418.1	2624.7	2717.7
55°	3585.0	3591.5	3597.5	3562.9	3421.2	2886.4	2876.1	2759.3	3016.7	3113.0
57.5°	3769.4	3772.1	3825.1	3896.0	3903.0	3311.4	3292.5	3152.5	3445.0	3513.7
60°	3893.3	3905.7	4017.6	4214.5	4300.4	3750.0	3739.7	3596.9	3880.8	3912.7
62.5°	3714.8	3790.5	4072.8	4463.2	4675.7	4236.1	4231.2	4097.1	4339.4	4313.4
65°	3007.0	3135.2	3631.5	4631.4	5043.9	4779.0	4786.0	4643.3	4810.3	4726.0
67.5°	2103.4	2238.6	2825.9	4644.9	5455.4	5416.5	5457.0	5233.2	5310.5	5121.3
70°	1454.6	1524.3	1906.6	4354.0	5776.1	6294.6	6293.6	5957.8	5808.0	5301.3
72.5°	978.2	1014.4	1238.3	3454.2	5540.3	6816.4	6785.1	6511.5	5975.6	4958.0
75°	412.6	439.1	573.2	1941.2	4383.2	6236.2	6151.3	5754.5	5309.4	3904.1
77.5°	130.9	142.2	226.0	694.8	2414.4	4687.6	4597.8	3593.7	3558.5	1958.5
80°	62.2	72.5	127.1	279.0	950.1	2549.5	2537.1	1630.3	1530.8	528.8
82.5°	27.0	31.9	70.3	149.2	425.0	909.5	927.9	554.8	459.1	200.6
85°	8.7	11.4	32.4	68.7	179.5	226.0	223.3	131.9	184.9	109.2
87.5°	0.0	0.0	10.8	15.7	18.4	13.0	14.6	11.4	51.4	30.3
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°
867.9	0°	867.9	867.9	867.9	867.9	867.9	867.9	867.9	867.9	867.9	867.9
878.7	2.5°	872.2	863.5	848.4	834.3	821.9	809.5	801.9	791.1	790.0	790.0
892.7	5°	878.1	864.1	837.1	808.4	775.4	744.0	712.7	682.4	672.7	665.6
915.5	7.5°	895.4	873.3	830.6	775.9	713.2	644.6	596.4	544.5	524.5	513.7
945.7	10°	920.3	890.0	825.2	729.4	627.8	534.2	465.6	409.3	387.7	378.5
978.7	12.5°	947.9	910.6	815.4	671.6	534.2	422.3	355.3	329.3	326.1	326.1
1018.2	15°	980.9	935.5	798.7	603.5	436.4	334.2	310.4	311.5	314.7	316.9
1056.6	17.5°	1015.0	962.0	772.2	527.2	349.9	300.6	301.2	302.8	305.5	307.7
1098.2	20°	1051.7	988.5	737.0	446.1	300.1	290.9	292.5	294.2	296.3	297.4
1137.2	22.5°	1091.2	1013.3	695.4	366.6	283.3	282.8	283.3	285.0	287.7	287.7
1182.6	25°	1133.4	1040.9	647.8	308.8	274.7	274.7	275.8	276.9	279.0	279.0
1226.4	27.5°	1176.6	1066.3	597.5	278.5	267.1	266.6	266.6	268.2	269.3	269.8
1269.6	30°	1224.2	1096.1	547.2	272.0	261.2	258.5	256.8	257.9	259.0	259.6
1315.1	32.5°	1272.9	1124.7	502.3	274.7	255.2	250.4	245.0	243.9	243.9	246.0
1362.1	35°	1327.0	1156.1	467.7	283.9	252.0	238.5	229.8	224.9	225.5	228.7
1418.3	37.5°	1391.8	1193.9	442.3	292.0	249.8	224.9	210.9	204.9	201.2	204.9
1495.7	40°	1476.7	1249.6	423.9	298.5	247.1	209.3	190.3	180.6	173.6	175.7
1615.7	42.5°	1601.6	1337.2	416.9	299.0	241.2	190.9	169.2	156.3	146.0	146.5
1796.3	45°	1776.8	1475.7	453.1	292.0	228.2	170.9	147.1	129.8	123.3	121.7
2066.1	47.5°	2016.9	1677.3	536.9	277.4	209.3	151.4	125.4	110.8	106.0	103.3
2420.3	50°	2338.7	1936.4	630.0	261.2	190.3	133.0	107.6	98.4	95.2	92.5
2840.5	52.5°	2711.8	2199.1	706.2	245.0	171.4	116.8	96.2	90.8	88.1	86.0
3246.0	55°	3054.0	2380.3	701.9	227.6	153.0	103.8	88.1	84.9	81.7	79.5
3595.3	57.5°	3267.1	2405.7	578.6	208.7	131.9	93.5	80.6	78.4	74.6	71.9
3897.6	60°	3365.0	2260.8	405.5	183.8	110.8	83.8	72.5	71.4	66.5	62.7
4183.6	62.5°	3382.8	1991.5	270.4	153.0	92.5	74.6	64.3	62.7	56.2	49.7
4416.1	65°	3310.4	1606.5	187.1	119.5	78.9	64.9	55.2	51.9	44.9	38.4
4471.3	67.5°	3081.1	1128.0	130.3	86.0	67.1	51.4	43.8	42.7	37.3	31.9
4190.1	70°	2660.9	642.9	87.1	64.3	53.0	35.1	34.6	35.7	30.3	26.0
3423.4	72.5°	2040.2	294.2	54.1	47.0	36.2	23.8	27.6	28.1	23.3	19.5
2135.9	75°	1201.0	126.0	34.1	30.3	18.4	15.7	20.0	20.5	15.7	12.4
780.8	77.5°	408.8	47.6	21.6	17.8	9.2	8.7	13.0	13.0	8.7	4.9
156.8	80°	93.0	17.8	10.8	7.0	4.3	3.8	4.3	3.8	2.2	0.5
48.1	82.5°	26.5	7.0	4.3	2.7	1.6	1.6	0.5	0.0	0.0	0.0
16.8	85°	7.6	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>
867.9
792.7
668.9
515.3
378.5
326.1
316.9
307.7
297.9
288.7
279.6
270.4
260.6
247.7
230.4
203.9
174.7
144.4
119.5
101.7
91.9
85.4
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71.4
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