

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: P940918

Luminaire Tested: **GALN-SB4A-950-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940918
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-SB4A-950-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 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: 9469 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

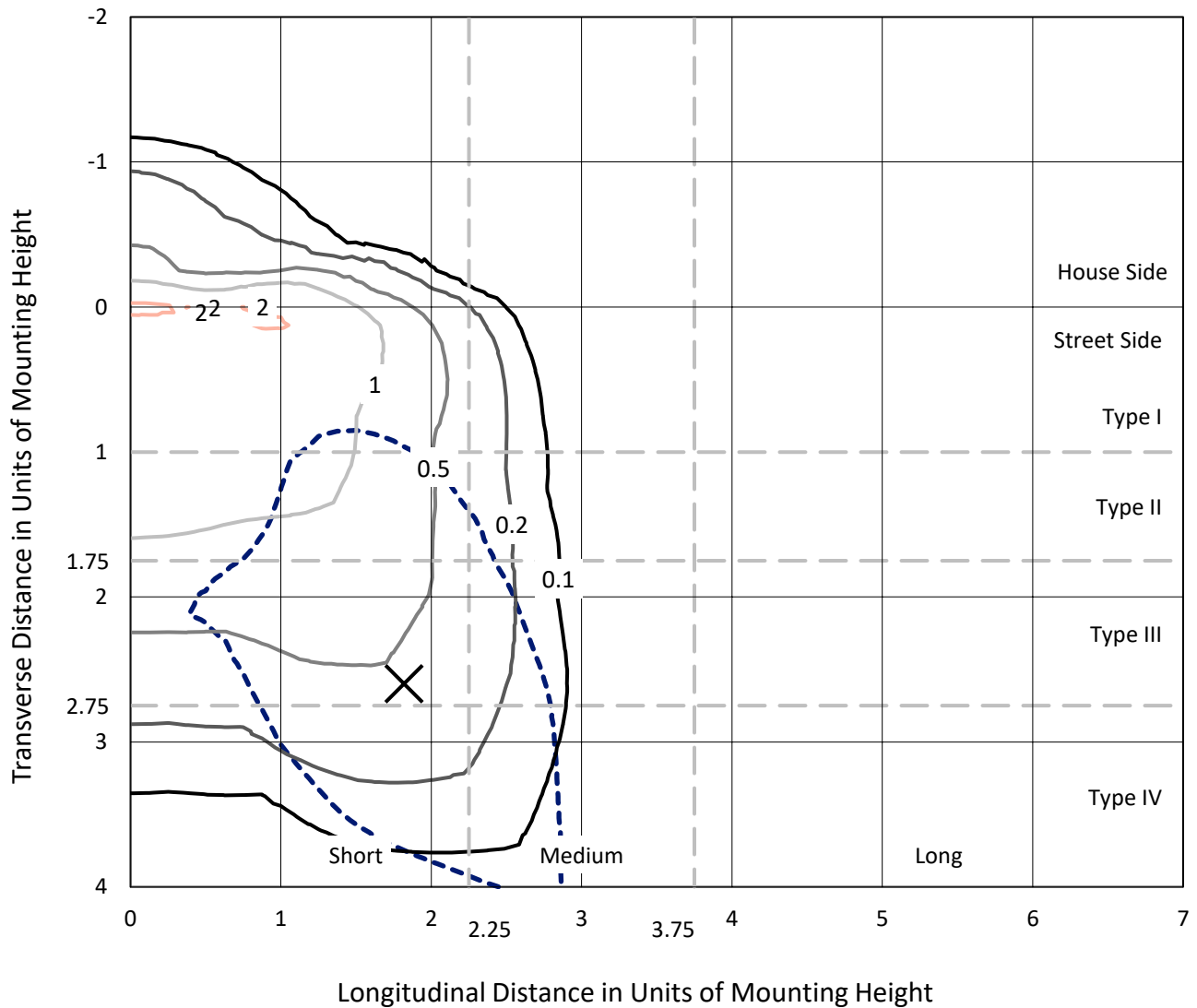
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

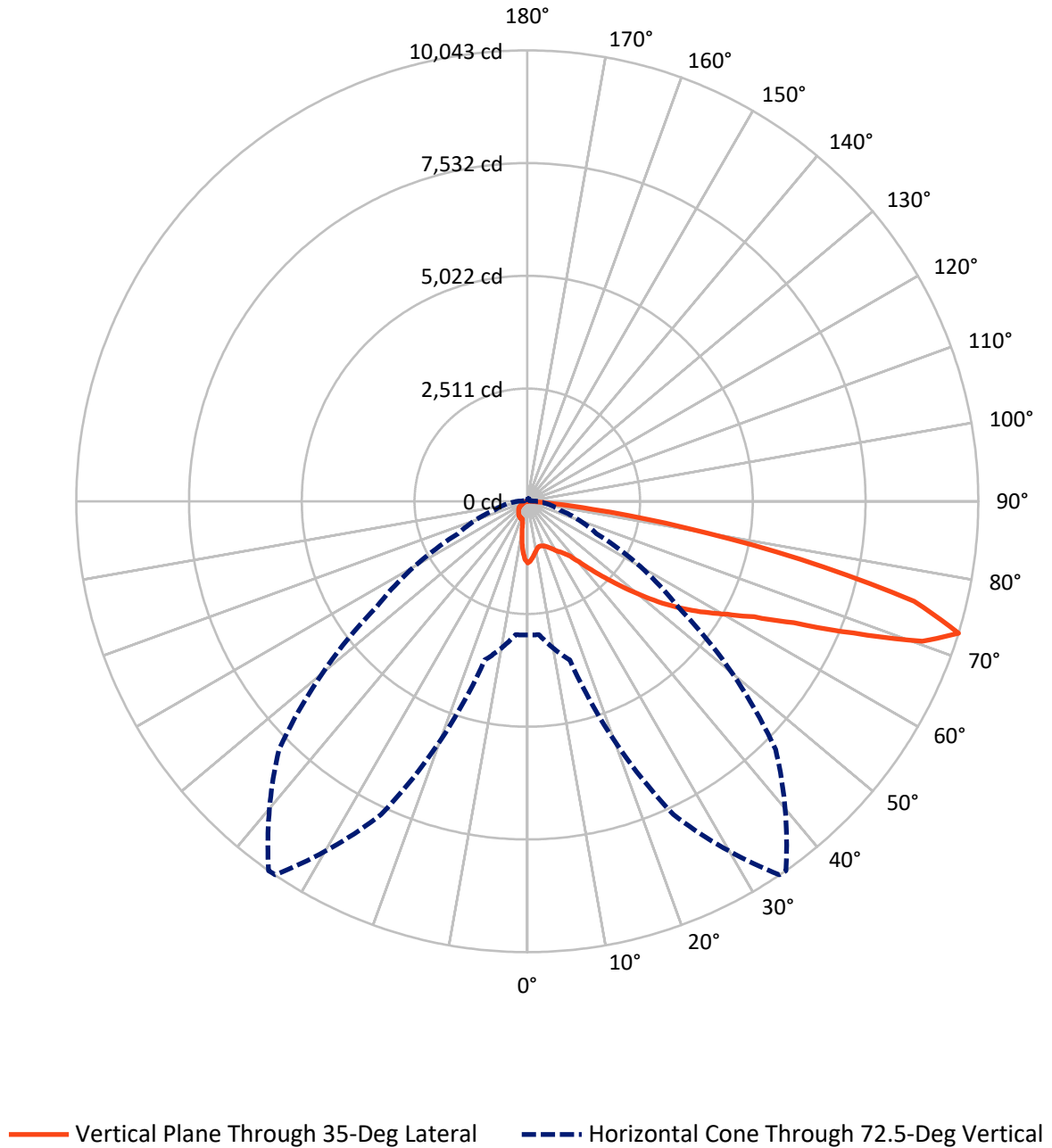
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	1065.7	0.0	1065.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	8403.3	0.0	8403.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	9469.0	0.0	9469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	1.2
10°-20°	263.8	2.8
20°-30°	428.6	4.5
30°-40°	715.1	7.6
40°-50°	1352.9	14.3
50°-60°	2149.8	22.7
60°-70°	2659.4	28.1
70°-80°	1653.1	17.5
80°-90°	133.6	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°	9469.0	100.0
0°-180°	9469.0	100.0

Coefficient of Utilization



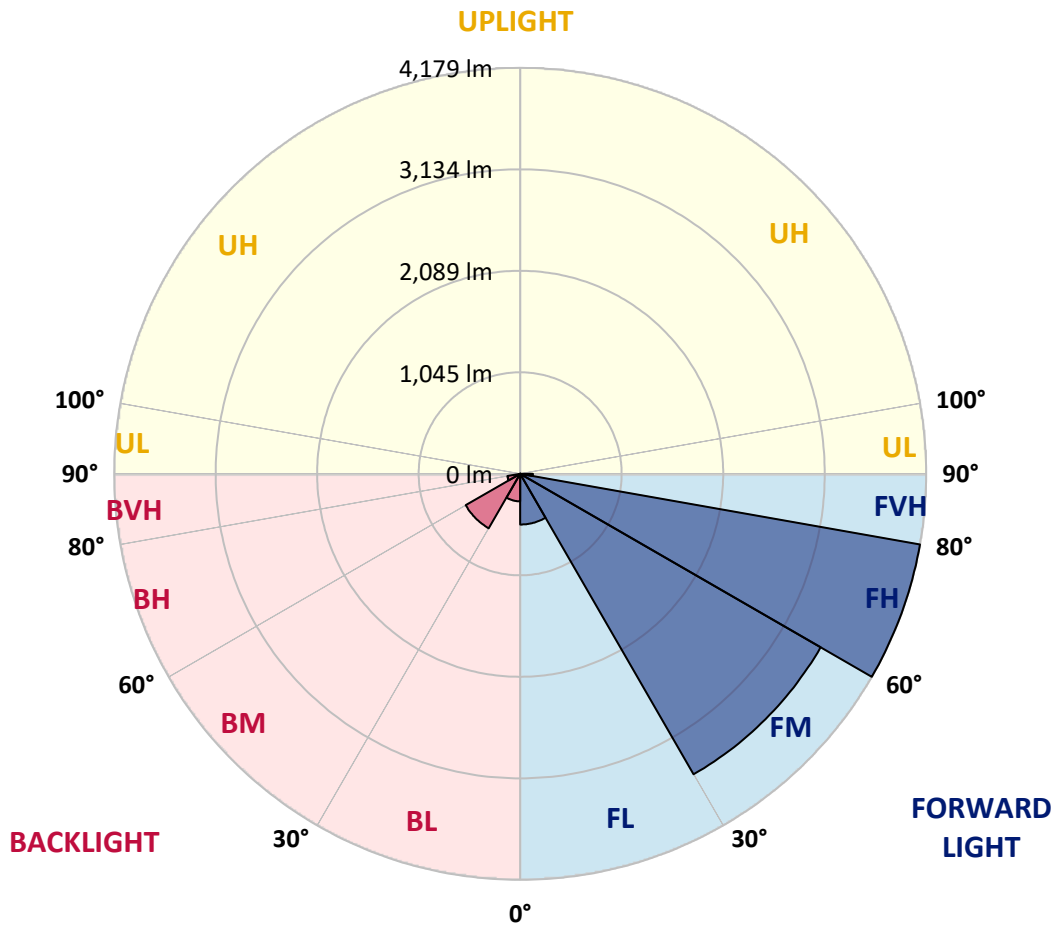
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.0	5.5			
FM (30°-60°)	3570.8	37.7			
FH (60°-80°)	4178.8	44.1			G2/5000
FVH (80°-90°)	131.8	1.4			G2/225
BL (0°-30°)	283.2	3.0	B1/500		
BM (30°-60°)	647.0	6.8	B1/1000		
BH (60°-80°)	133.7	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°	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4
2.5°	1311.3	1322.4	1324.5	1328.0	1328.0	1332.1	1339.1	1348.8	1364.7	1373.1
5°	1208.6	1217.0	1227.4	1235.7	1251.7	1253.7	1280.8	1307.2	1343.9	1371.7
7.5°	1105.3	1115.0	1128.8	1149.0	1169.8	1176.0	1217.0	1261.4	1319.6	1371.7
10°	1032.4	1033.1	1045.6	1065.7	1099.0	1106.6	1156.6	1219.7	1292.6	1363.4
12.5°	991.5	996.3	1001.9	1017.1	1049.1	1053.9	1107.3	1181.6	1265.5	1358.5
15°	991.5	994.9	998.4	1006.0	1031.7	1035.9	1083.1	1157.3	1251.7	1360.6
17.5°	1001.9	1007.4	1004.7	1013.7	1040.7	1043.5	1085.1	1150.4	1251.0	1373.8
20°	1026.9	1031.0	1025.5	1031.0	1058.1	1063.6	1106.6	1163.5	1262.8	1396.7
22.5°	1066.4	1068.5	1055.3	1059.5	1087.2	1094.2	1144.1	1201.0	1291.2	1433.4
25°	1116.4	1120.5	1100.4	1105.3	1131.6	1139.9	1197.5	1257.2	1336.3	1484.1
27.5°	1173.9	1176.0	1158.7	1158.0	1192.0	1203.8	1262.1	1326.6	1396.7	1547.9
30°	1239.9	1246.1	1229.4	1226.7	1269.7	1279.4	1337.0	1411.9	1485.5	1643.7
32.5°	1291.9	1296.7	1287.0	1294.0	1337.7	1345.3	1427.9	1532.6	1624.9	1779.6
35°	1366.8	1369.6	1347.4	1359.9	1409.8	1429.3	1552.1	1701.9	1800.5	1950.3
37.5°	1638.1	1638.1	1543.7	1482.0	1529.9	1547.2	1722.1	1914.9	2016.9	2179.3
40°	2013.5	2007.2	1869.2	1742.9	1736.6	1770.6	1964.2	2183.5	2296.5	2454.0
42.5°	2413.8	2404.1	2216.1	2091.2	2070.4	2082.2	2243.8	2514.4	2629.6	2789.2
45°	2769.0	2766.3	2594.2	2426.3	2388.8	2426.3	2592.8	2901.6	2984.1	3152.0
47.5°	3066.7	3066.7	2941.1	2831.5	2812.1	2834.3	3065.3	3331.0	3323.4	3538.5
50°	3409.4	3406.7	3287.3	3240.1	3260.3	3291.5	3609.3	3783.4	3674.5	3918.0
52.5°	3649.5	3666.1	3625.2	3617.6	3720.3	3774.4	4161.5	4226.1	3988.8	4278.1
55°	3839.6	3859.0	3906.2	3959.6	4157.4	4228.1	4696.5	4645.8	4251.7	4590.3
57.5°	4108.8	4081.0	4153.9	4259.4	4579.2	4664.6	5214.7	5042.0	4463.3	4843.6
60°	4435.6	4439.8	4452.2	4585.5	5000.4	5110.0	5725.4	5416.7	4599.3	4999.0
62.5°	4828.3	4834.5	4860.2	5064.9	5565.8	5669.2	6269.4	5723.3	4661.8	4955.3
65°	4801.2	4827.6	5114.1	5814.2	6425.5	6527.5	6904.2	5938.4	4567.4	4555.6
67.5°	4373.8	4416.9	4896.3	6709.2	7721.5	7835.3	7671.6	5980.7	4160.1	3542.6
70°	3813.2	3828.5	4405.1	7514.1	9222.3	9337.4	8358.4	5515.2	3156.9	1976.0
72.5°	2977.9	2981.3	3657.8	7700.7	10036.8	10043.0	7819.3	4094.2	1697.8	759.0
75°	2127.3	2106.4	2449.9	6245.1	8830.2	8901.0	5862.1	1920.5	648.7	358.7
77.5°	1140.6	1163.5	1386.3	3703.6	6100.1	6220.8	3198.5	553.7	330.3	244.2
80°	352.5	371.9	568.2	1695.7	3455.2	3528.1	1185.7	246.3	230.3	174.1
82.5°	111.0	115.2	265.0	712.6	1434.1	1467.4	343.4	139.5	157.5	115.2
85°	31.9	32.6	117.9	265.7	354.5	361.5	96.4	54.1	90.2	71.5
87.5°	3.5	11.1	44.4	44.4	31.2	30.5	10.4	11.8	25.7	9.0
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°
1372.4	0°	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4
1378.6	2.5°	1375.2	1375.8	1366.8	1351.6	1334.9	1321.0	1303.7	1289.8	1280.1	1277.3
1391.1	5°	1384.9	1380.0	1354.3	1307.9	1252.3	1204.5	1151.0	1108.7	1081.0	1069.2
1404.3	7.5°	1399.4	1385.6	1329.4	1237.8	1131.6	1037.3	941.5	867.3	820.1	796.5
1416.8	10°	1411.9	1384.2	1287.7	1136.5	974.1	831.2	702.1	612.6	562.7	539.1
1431.4	12.5°	1423.7	1383.5	1233.6	1016.4	796.5	621.7	501.6	457.2	443.4	438.5
1454.9	15°	1445.9	1385.6	1165.6	879.1	619.6	469.7	426.0	425.3	428.1	426.7
1491.0	17.5°	1476.4	1387.6	1088.6	733.4	478.0	414.2	412.1	418.4	422.5	420.5
1536.1	20°	1516.0	1396.0	1006.7	589.1	410.7	400.3	405.2	410.7	414.2	410.7
1596.5	22.5°	1571.5	1410.5	917.2	473.2	389.2	392.0	396.2	402.4	405.9	401.0
1673.5	25°	1639.5	1433.4	829.1	411.4	378.8	382.3	388.5	395.5	399.6	394.8
1770.6	27.5°	1727.6	1470.2	747.9	397.6	368.4	370.5	379.5	389.9	395.5	389.2
1908.7	30°	1855.3	1530.6	677.9	403.8	362.2	357.3	369.8	384.4	390.6	385.1
2096.7	32.5°	2024.6	1615.9	634.8	413.5	359.4	342.1	353.8	372.6	383.0	379.5
2342.3	35°	2246.6	1745.7	618.2	424.6	357.3	326.1	334.4	354.5	372.6	376.1
2651.8	37.5°	2515.8	1926.0	623.1	429.5	351.1	312.9	317.1	334.4	358.0	369.1
3000.1	40°	2821.8	2136.3	650.8	424.6	344.1	301.8	302.5	315.7	336.5	353.2
3374.7	42.5°	3137.5	2381.9	702.1	406.6	337.9	292.1	290.0	299.0	312.9	324.7
3748.7	45°	3437.9	2634.4	752.8	381.6	330.3	282.4	277.5	281.0	283.8	288.6
4113.0	47.5°	3700.1	2812.1	738.2	358.7	319.9	271.3	263.0	261.6	253.2	252.6
4438.4	50°	3881.2	2850.9	655.7	335.8	304.6	258.8	245.6	237.3	222.7	215.8
4681.9	52.5°	3938.8	2697.6	535.6	312.9	279.6	242.1	223.4	210.2	192.2	185.9
4822.0	55°	3862.5	2397.1	428.1	285.2	244.9	219.9	199.1	181.8	167.2	159.6
4837.3	57.5°	3675.9	2014.9	338.6	252.6	208.1	195.0	174.1	156.8	144.3	136.7
4668.0	60°	3366.4	1599.9	267.8	213.7	177.6	167.9	146.4	135.3	124.2	115.2
4230.9	62.5°	2896.7	1142.0	210.2	169.3	148.5	137.4	124.9	116.6	103.4	90.9
3444.8	65°	2260.5	698.7	162.4	124.2	119.3	113.8	106.2	98.5	82.6	70.1
2247.3	67.5°	1425.8	331.0	115.9	93.7	94.4	91.6	88.1	81.9	70.1	59.0
1006.7	70°	627.9	160.3	76.3	71.5	70.1	70.1	72.9	70.8	59.7	49.3
349.7	72.5°	213.7	86.0	56.9	54.1	50.6	50.0	61.1	59.0	47.9	38.2
174.1	75°	111.7	57.6	41.6	38.9	30.5	36.8	48.6	45.8	34.0	25.0
115.2	77.5°	72.9	40.9	28.4	25.0	17.3	24.3	36.1	31.9	20.1	12.5
75.6	80°	45.8	27.1	16.7	11.8	8.3	13.2	19.4	13.9	7.6	2.8
44.4	82.5°	24.3	13.9	6.2	4.2	3.5	4.2	4.9	3.5	1.4	0.0
22.9	85°	9.7	4.9	2.1	1.4	0.7	0.0	1.4	0.7	0.0	0.0
4.2	87.5°	3.5	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>
1372.4
1282.2
1073.3
800.0
539.8
437.1
426.0
419.8
410.0
400.3
394.1
389.2
384.4
379.5
376.1
371.9
358.7
329.6
291.4
251.9
216.5
185.2
159.6
135.3
113.1
88.8
68.0
57.6
47.2
36.1
22.9
11.1
2.1
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