

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: P947304

Luminaire Tested: **GALN-SB2C-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9035 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

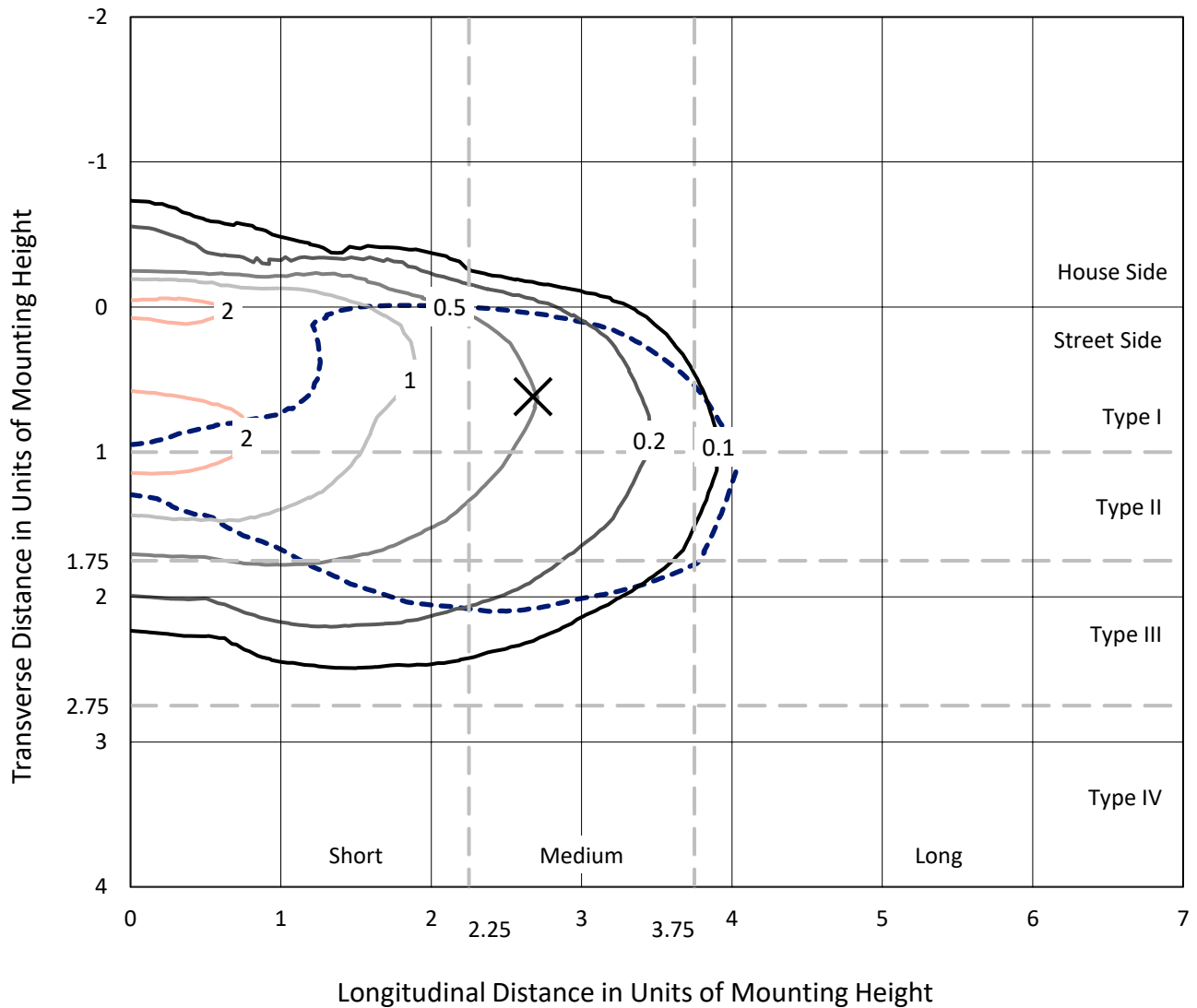
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

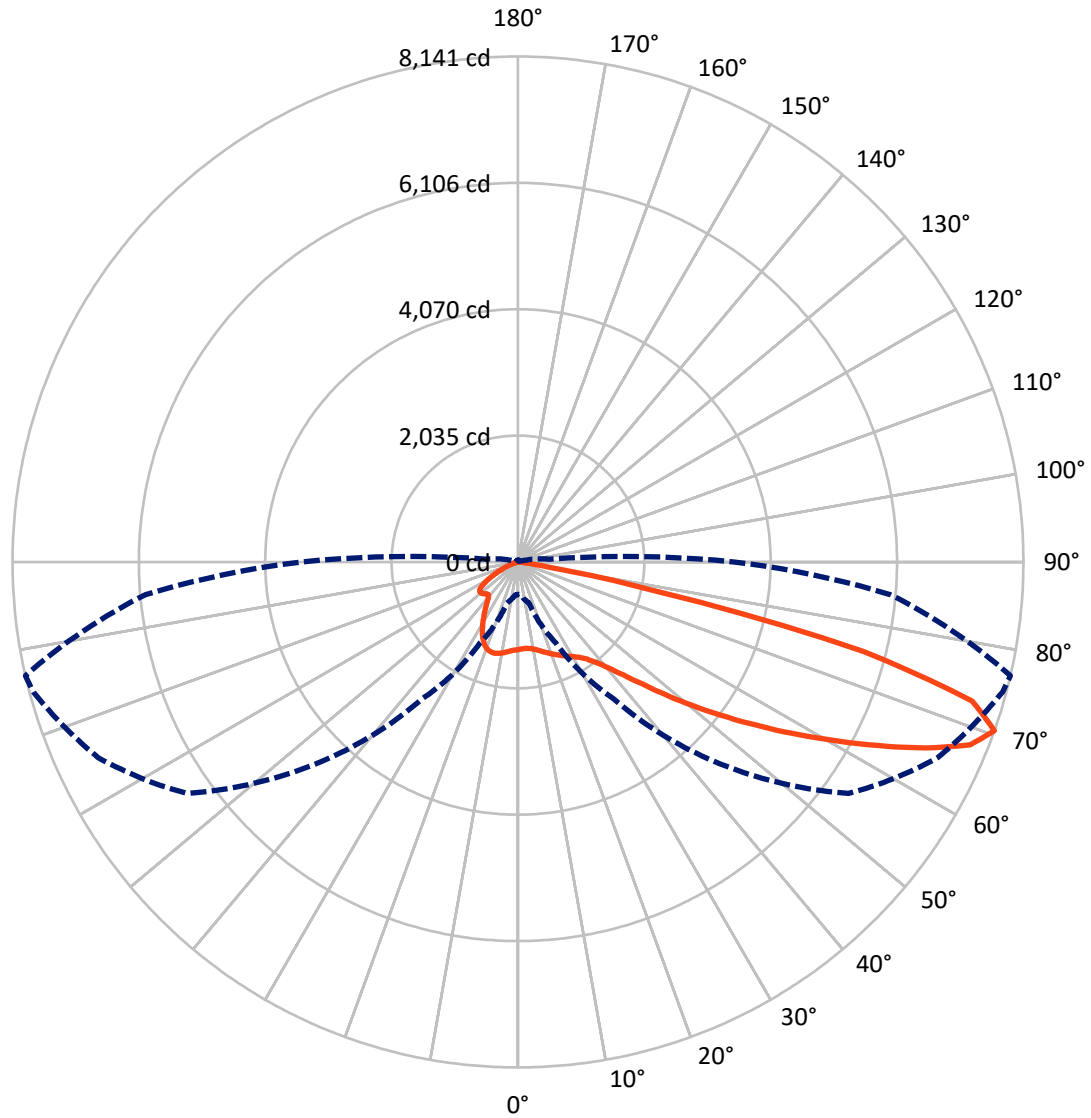
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	952.4	0.0	952.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	8082.6	0.0	8082.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	9035.0	0.0	9035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	1.3
10°-20°	288.3	3.2
20°-30°	446.0	4.9
30°-40°	809.2	9.0
40°-50°	1527.5	16.9
50°-60°	2207.1	24.4
60°-70°	2349.4	26.0
70°-80°	1245.0	13.8
80°-90°	40.9	0.5
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°	9035.0	100.0
0°-180°	9035.0	100.0

Coefficient of Utilization



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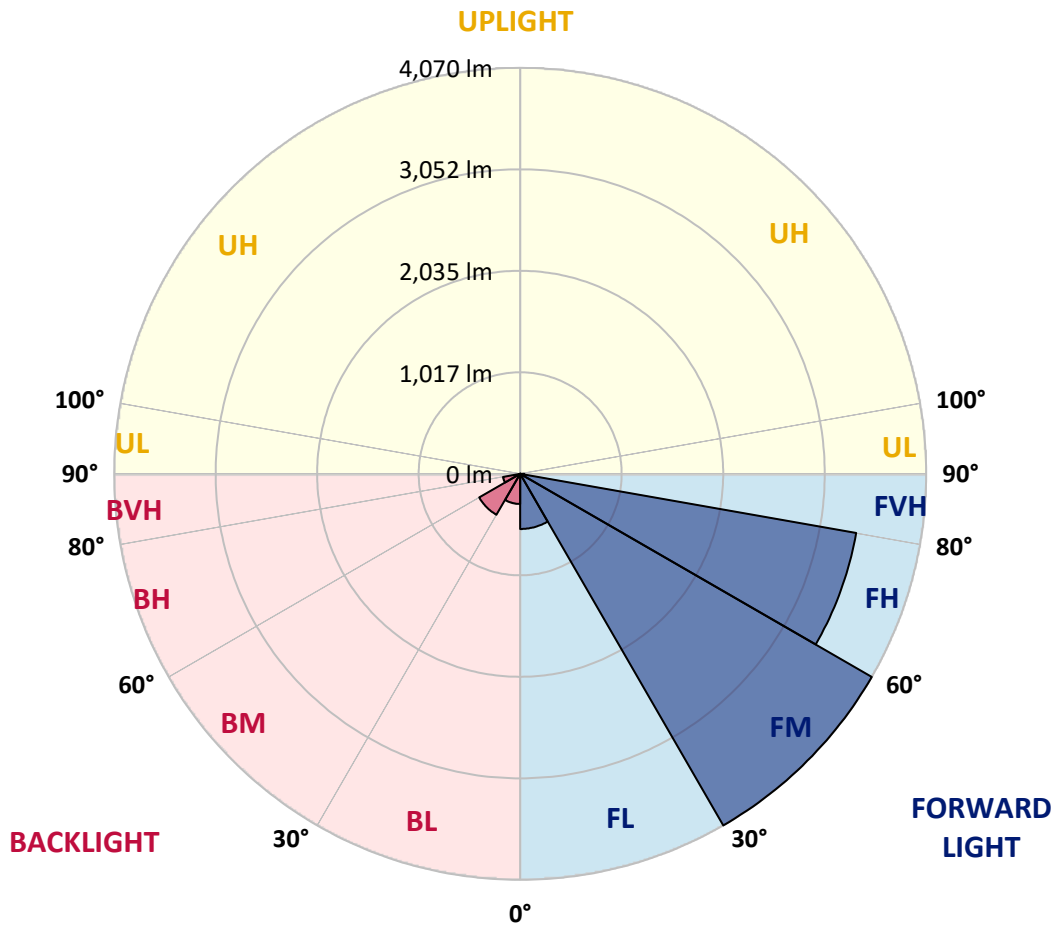
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.2	6.1			
FM (30°-60°)	4069.8	45.0			
FH (60°-80°)	3419.9	37.9			G2/5000
FVH (80°-90°)	39.8	0.4			G1/100
BL (0°-30°)	302.6	3.3	B1/500		
BM (30°-60°)	474.1	5.2	B1/1000		
BH (60°-80°)	174.6	1.9	B1/500		G1/500
BVH (80°-90°)	1.1	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3
2.5°	1323.1	1335.1	1333.4	1341.4	1344.3	1355.7	1367.1	1382.5	1399.6	1399.0
5°	1248.4	1260.4	1263.2	1274.1	1287.8	1305.5	1328.8	1359.7	1391.6	1396.7
7.5°	1160.0	1172.5	1179.9	1201.6	1226.7	1263.2	1301.5	1346.5	1399.6	1407.0
10°	1071.5	1082.9	1092.6	1123.4	1163.4	1217.6	1279.8	1344.8	1416.1	1427.0
12.5°	1016.7	1027.6	1038.4	1065.2	1114.9	1181.1	1265.5	1352.8	1443.5	1458.9
15°	997.3	1007.0	1015.6	1039.6	1085.8	1161.1	1262.7	1369.4	1478.3	1498.9
17.5°	1000.2	1005.3	1011.0	1029.3	1074.4	1152.0	1267.8	1397.9	1519.4	1537.7
20°	1016.7	1019.6	1020.2	1032.7	1072.7	1150.8	1278.1	1425.3	1558.2	1582.7
22.5°	1037.9	1039.0	1037.9	1046.4	1083.5	1159.4	1291.8	1458.4	1601.6	1624.4
25°	1136.6	1114.9	1087.5	1071.0	1101.8	1175.9	1312.3	1502.9	1648.9	1671.2
27.5°	1443.0	1380.8	1282.6	1172.5	1139.4	1199.9	1340.8	1547.9	1696.9	1716.8
30°	1940.5	1858.9	1692.3	1444.1	1260.4	1250.1	1377.9	1593.0	1747.6	1769.3
32.5°	2439.2	2419.2	2226.9	1883.4	1532.5	1361.9	1439.5	1654.1	1815.0	1832.1
35°	2943.5	2903.0	2745.6	2406.1	1951.9	1589.6	1542.2	1733.9	1903.4	1922.8
37.5°	3329.8	3305.3	3207.7	2928.1	2449.4	1941.1	1718.0	1857.8	2031.8	2053.5
40°	3671.0	3659.6	3626.5	3442.2	3005.7	2400.9	1991.3	2049.5	2209.8	2235.5
42.5°	3939.2	3966.0	3984.8	3933.5	3579.2	2925.9	2358.7	2318.8	2458.0	2484.2
45°	4213.6	4222.8	4298.6	4372.8	4148.6	3474.7	2772.9	2634.3	2766.7	2799.2
47.5°	4389.9	4426.4	4560.0	4690.6	4627.3	4019.1	3218.0	3006.9	3124.4	3185.5
50°	4403.1	4472.1	4655.8	4883.5	4975.9	4537.1	3701.8	3431.4	3556.3	3623.7
52.5°	4184.5	4291.8	4576.5	4909.7	5164.2	4975.9	4202.2	3855.9	4016.2	4104.1
55°	3208.3	3348.6	4278.1	4767.1	5171.6	5308.5	4689.5	4298.1	4528.6	4627.9
57.5°	2795.2	2866.0	3363.5	4519.4	5034.1	5442.6	5130.0	4719.1	5086.0	5209.3
60°	2325.6	2418.6	2820.9	4114.3	4847.5	5455.7	5519.1	5262.3	5690.2	5828.9
62.5°	1580.5	1681.5	2081.4	3418.3	4592.5	5449.5	5838.0	5821.5	6361.8	6510.7
65°	979.1	1042.4	1306.0	2791.2	4235.9	5456.3	6171.8	6500.5	7070.4	7221.6
67.5°	773.7	802.8	940.3	2143.0	3621.4	5302.3	6505.0	7138.9	7737.4	7857.3
70°	519.8	537.5	684.1	1436.7	2694.2	4591.3	6498.7	7459.6	8080.9	8140.8
72.5°	273.9	287.6	400.0	665.3	1627.3	3263.6	5478.0	7076.2	7739.2	7649.0
75°	136.9	159.8	269.3	337.8	694.9	1820.1	3401.7	5579.0	6091.4	5742.2
77.5°	103.8	125.5	222.5	222.5	241.9	612.8	1440.7	3042.8	2806.6	2337.0
80°	66.2	85.6	194.6	168.3	101.0	155.8	375.4	852.4	596.2	453.6
82.5°	38.8	55.9	162.0	111.3	56.5	57.6	106.1	181.4	154.6	120.4
85°	15.4	36.5	111.3	43.9	22.3	14.3	32.0	38.8	32.0	24.0
87.5°	0.0	8.6	19.4	0.0	1.7	1.1	2.3	2.9	2.9	2.3
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°
1409.3	0°	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3
1410.4	2.5°	1415.6	1416.7	1420.1	1420.7	1412.7	1402.5	1398.5	1396.7	1389.9	1389.3
1419.6	5°	1432.7	1437.8	1432.7	1417.9	1382.5	1332.8	1295.2	1264.4	1236.4	1227.9
1450.9	7.5°	1466.9	1472.1	1456.7	1398.5	1309.4	1210.7	1121.7	1059.0	1002.5	981.4
1489.2	10°	1516.0	1522.8	1474.3	1356.8	1199.3	1040.7	890.1	784.0	701.2	667.6
1541.1	12.5°	1577.6	1580.5	1484.0	1293.5	1056.1	829.6	616.2	502.7	429.1	401.7
1603.9	15°	1645.5	1641.5	1485.2	1207.3	861.0	586.5	402.2	330.4	300.7	291.6
1666.6	17.5°	1716.8	1700.3	1462.4	1082.9	647.0	401.1	298.4	281.3	276.2	273.9
1728.8	20°	1787.0	1749.9	1420.7	920.3	464.4	299.5	271.0	265.9	263.0	261.9
1791.6	22.5°	1850.9	1787.6	1349.4	731.5	337.2	264.7	256.2	251.6	246.5	244.2
1852.6	25°	1913.1	1809.3	1249.0	555.2	269.9	247.6	240.8	232.2	225.4	222.5
1918.2	27.5°	1973.6	1823.0	1123.4	410.8	240.8	231.6	219.1	207.1	202.0	200.8
1988.4	30°	2038.1	1827.5	980.8	306.4	223.1	211.7	193.4	179.7	176.9	177.4
2083.1	32.5°	2116.8	1834.4	837.0	251.0	208.3	187.7	166.0	151.8	149.5	151.8
2221.2	35°	2210.9	1848.1	698.4	231.1	195.1	163.2	139.8	127.8	125.5	127.2
2398.1	37.5°	2338.7	1870.3	568.9	227.1	184.3	142.6	117.5	107.8	107.8	108.4
2614.9	40°	2508.8	1929.7	453.0	224.2	178.6	127.2	99.3	95.3	97.0	98.1
2891.1	42.5°	2715.9	2055.7	374.9	220.8	172.3	120.4	90.1	88.4	91.3	92.4
3222.0	45°	2948.1	2215.5	347.5	215.1	166.6	125.0	86.2	83.9	87.3	87.9
3592.9	47.5°	3188.3	2371.8	344.1	208.8	160.9	131.8	85.0	79.9	83.9	84.4
3988.8	50°	3431.4	2474.0	347.5	199.1	151.8	131.8	85.6	75.9	79.3	81.0
4399.6	52.5°	3676.2	2520.8	345.2	178.0	135.8	123.8	85.6	72.5	75.9	77.0
4843.5	55°	3913.5	2511.6	310.4	146.6	115.3	109.5	83.3	69.6	71.9	72.5
5262.9	57.5°	4101.2	2384.4	245.9	114.1	93.6	91.3	75.9	66.2	67.9	67.3
5647.5	60°	4199.4	2104.8	175.7	87.9	73.6	71.9	66.8	61.6	62.8	59.9
5973.3	62.5°	4200.5	1735.1	117.5	69.6	58.8	57.1	57.1	55.3	54.2	48.5
6225.4	65°	4110.9	1324.9	78.2	55.3	47.4	44.5	47.9	47.4	43.4	35.4
6302.5	67.5°	3907.8	868.4	59.3	43.4	36.5	34.8	38.2	39.9	37.1	29.7
6021.7	70°	3490.1	505.5	49.1	33.7	27.4	25.7	30.8	34.2	30.8	24.0
5147.1	72.5°	2899.0	272.7	39.9	25.1	18.8	17.1	24.5	28.0	24.5	17.7
3302.4	75°	1881.2	146.1	30.8	16.5	9.7	10.8	18.3	20.5	17.1	11.4
969.4	77.5°	631.6	64.5	19.4	8.0	4.6	4.6	10.8	12.6	8.0	4.0
176.3	80°	140.9	26.8	8.0	3.4	1.7	1.7	2.3	2.3	1.1	0.0
54.2	82.5°	46.2	10.8	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
13.7	85°	17.7	4.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.6	87.5°	6.8	0.6	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>
1409.3
1390.5
1222.7
972.8
653.3
393.1
291.6
273.3
260.7
243.6
221.4
199.7
177.4
151.2
126.7
107.8
98.1
92.4
88.4
85.0
81.6
77.0
72.5
67.3
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