

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: P947302

Luminaire Tested: **GALN-SB2C-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
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-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8294 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

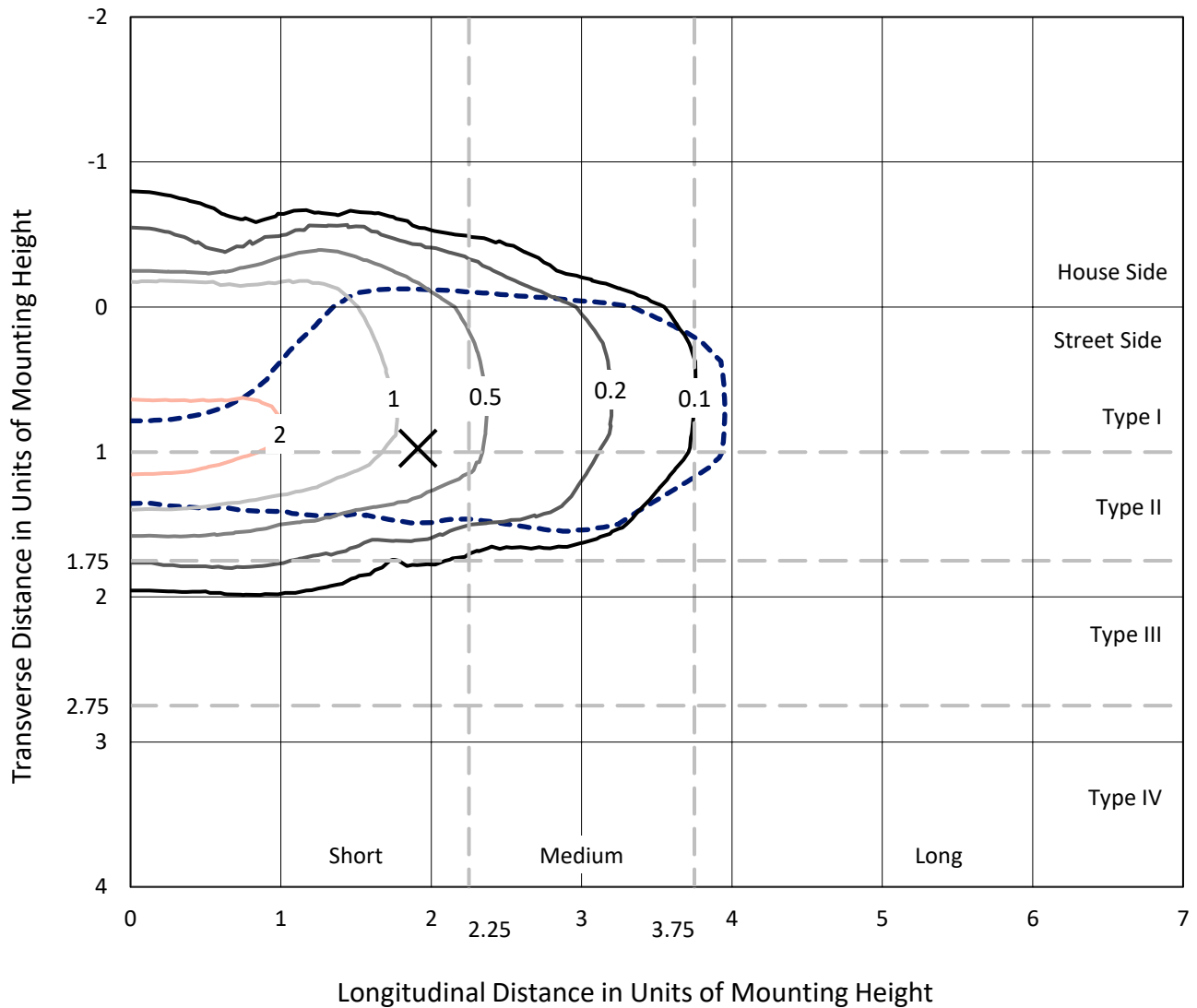
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

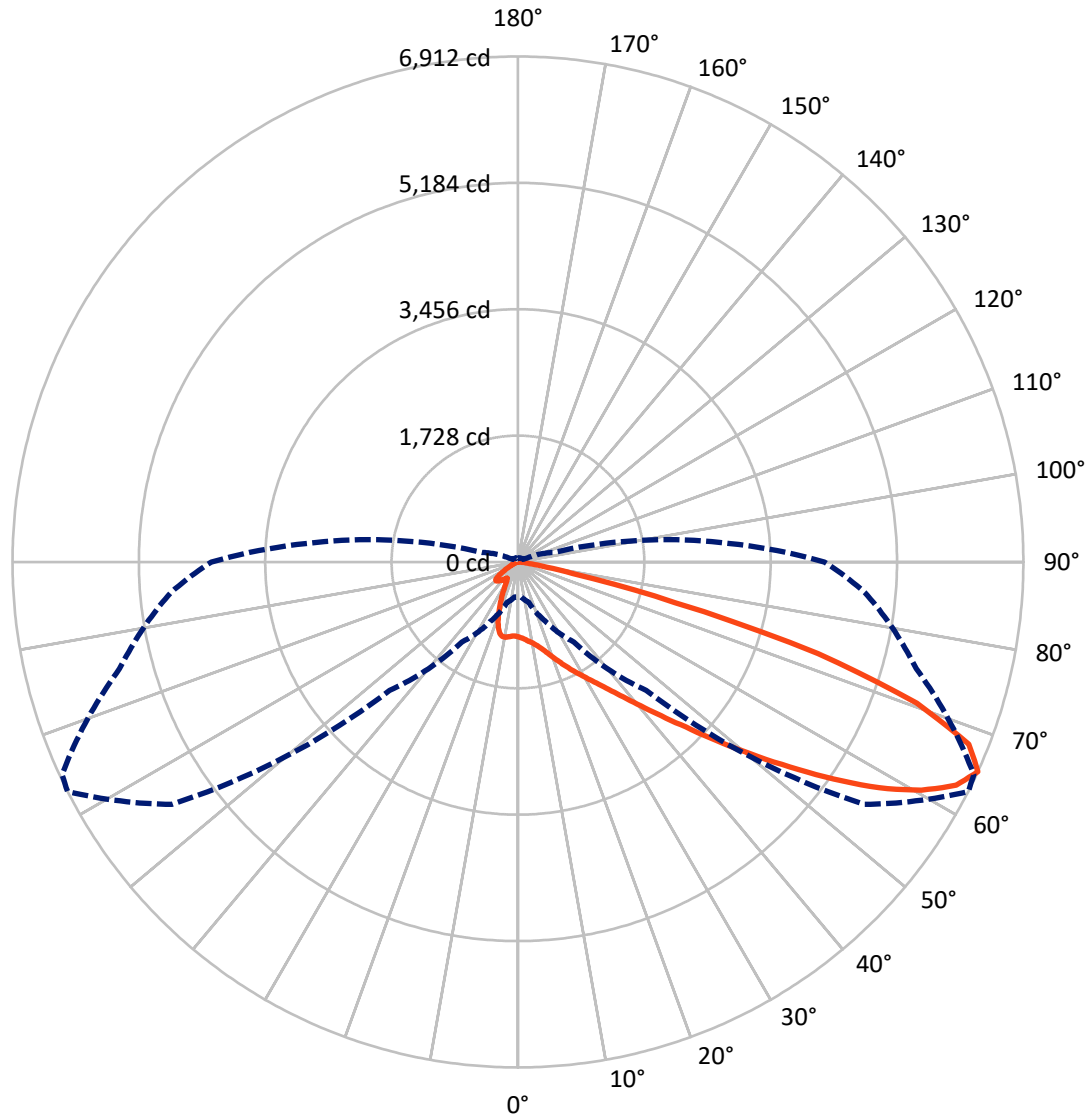
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1219.2	0.0	1219.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	7074.8	0.0	7074.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	8294.0	0.0	8294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	1.2
10°-20°	267.6	3.2
20°-30°	466.0	5.6
30°-40°	839.8	10.1
40°-50°	1665.7	20.1
50°-60°	2268.9	27.4
60°-70°	1811.1	21.8
70°-80°	819.5	9.9
80°-90°	58.9	0.7
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°	8294.0	100.0
0°-180°	8294.0	100.0

Coefficient of Utilization



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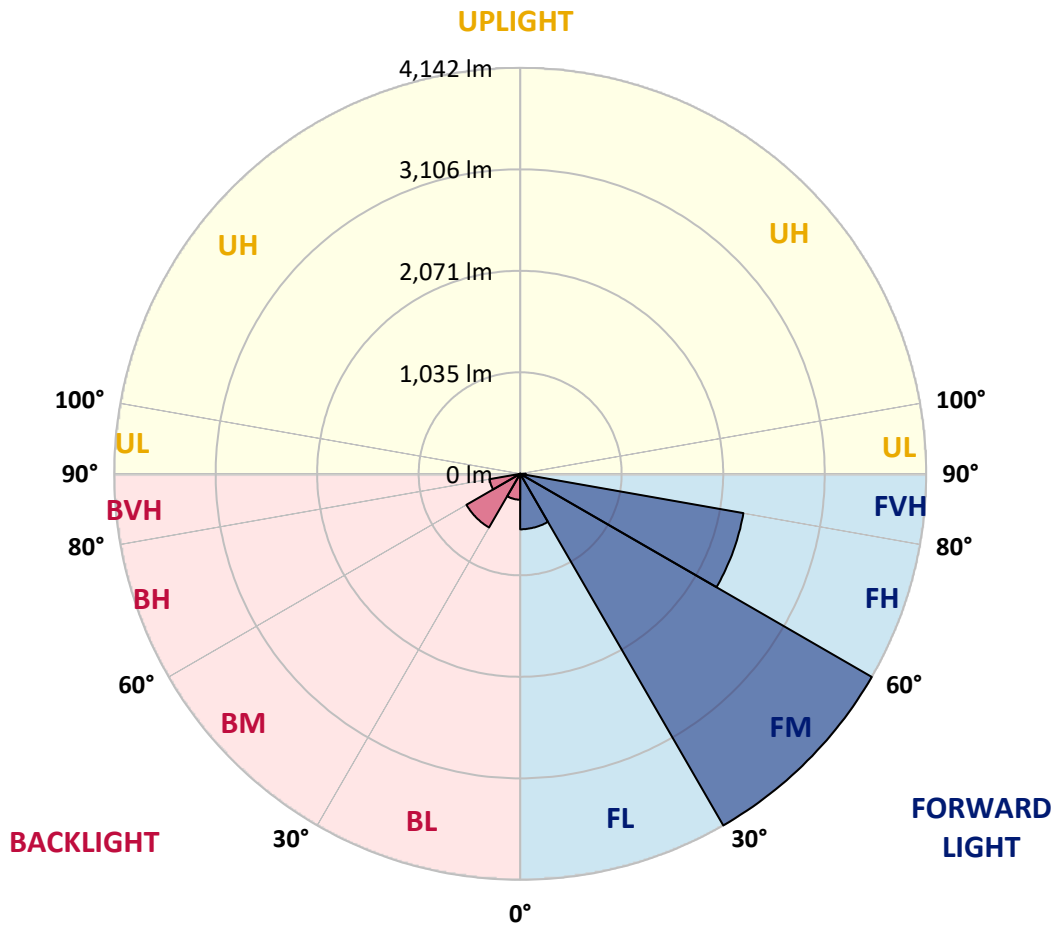
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	566.2	6.8			
FM (30°-60°)	4141.8	49.9			
FH (60°-80°)	2312.3	27.9			G2/5000
FVH (80°-90°)	54.5	0.7			G1/100
BL (0°-30°)	263.8	3.2	B1/500		
BM (30°-60°)	632.7	7.6	B1/1000		
BH (60°-80°)	318.3	3.8	B1/500		G1/500
BVH (80°-90°)	4.4	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1023.6	1023.6	1023.6	1023.6	1023.6	1023.6	1023.6	1023.6	1023.6	1023.6
2.5°	1047.6	1044.7	1048.7	1047.0	1045.9	1043.6	1042.5	1041.3	1039.0	1037.3
5°	1050.5	1048.7	1052.7	1056.2	1059.6	1063.0	1064.7	1067.0	1064.7	1060.2
7.5°	1026.5	1025.3	1033.9	1044.2	1059.6	1072.7	1087.0	1095.0	1095.5	1093.8
10°	1024.8	1021.9	1030.5	1043.0	1063.0	1086.4	1111.5	1128.6	1130.9	1138.3
12.5°	1051.6	1048.7	1060.7	1074.4	1095.0	1119.5	1150.3	1174.3	1177.7	1188.0
15°	1096.7	1092.7	1106.4	1124.1	1150.3	1178.3	1210.8	1232.5	1235.3	1247.9
17.5°	1149.2	1145.2	1161.1	1180.0	1208.5	1246.7	1284.4	1308.4	1311.8	1319.8
20°	1216.5	1211.4	1223.9	1241.0	1271.3	1316.9	1362.0	1396.2	1395.7	1395.7
22.5°	1294.7	1286.7	1297.5	1311.2	1339.7	1395.1	1455.0	1495.5	1495.5	1479.5
25°	1378.5	1370.6	1382.5	1395.1	1420.2	1483.0	1553.1	1603.4	1605.6	1578.2
27.5°	1483.5	1473.3	1482.4	1497.2	1512.1	1576.0	1659.3	1717.5	1718.6	1676.4
30°	1685.5	1656.4	1627.9	1611.9	1618.8	1682.1	1771.1	1835.6	1841.3	1783.1
32.5°	2055.3	2049.6	1949.1	1817.9	1749.4	1796.2	1896.1	1973.7	1977.1	1902.3
35°	2629.8	2623.0	2461.5	2211.6	1988.5	1949.1	2047.8	2139.7	2137.4	2053.0
37.5°	3315.7	3309.4	3096.6	2762.2	2401.0	2180.2	2243.6	2340.0	2354.2	2243.6
40°	3901.7	3878.3	3743.6	3421.3	2948.8	2563.7	2522.0	2585.9	2600.7	2469.5
42.5°	4345.6	4325.6	4257.2	4055.7	3611.8	3130.8	2850.1	2874.6	2891.2	2733.7
45°	4575.6	4571.0	4598.4	4579.5	4287.4	3826.9	3319.1	3217.0	3223.3	3026.4
47.5°	4608.1	4605.8	4730.8	4907.6	4868.3	4612.1	3921.1	3643.8	3621.5	3356.8
50°	4416.4	4411.8	4651.4	4983.0	5256.3	5271.7	4604.7	4124.8	4075.7	3698.6
52.5°	3804.1	3803.0	4196.7	4748.4	5392.6	5849.1	5280.2	4653.2	4571.0	4060.3
55°	2927.1	2948.2	3399.6	4051.8	5143.9	6127.0	5886.8	5239.7	5113.6	4424.3
57.5°	2073.5	2104.3	2550.5	3131.4	4372.4	5962.7	6297.0	5827.4	5691.6	4787.2
60°	1113.8	1141.2	1587.9	2281.2	3252.9	5349.8	6513.3	6337.5	6209.1	5131.9
62.5°	663.6	672.7	857.6	1472.7	2200.2	4087.1	6421.4	6726.1	6620.5	5421.2
65°	476.4	478.2	571.2	899.2	1335.7	2483.2	5777.2	6912.1	6879.6	5639.1
67.5°	401.1	400.0	438.8	597.4	910.1	1243.9	4427.8	6649.1	6787.2	5777.2
70°	344.1	345.8	391.4	437.6	684.1	704.1	2201.3	5789.2	6083.6	5813.7
72.5°	256.2	261.9	304.1	398.8	516.4	484.4	760.0	4292.5	4824.9	5477.7
75°	180.9	183.7	214.0	335.5	385.1	352.6	388.0	2219.0	2901.4	4199.5
77.5°	139.2	144.4	162.0	234.5	379.4	247.6	237.4	768.0	1180.0	2536.8
80°	75.3	84.4	117.0	169.5	266.5	175.2	117.5	305.8	400.0	1186.3
82.5°	38.8	43.4	81.6	122.1	151.8	152.9	58.2	127.2	164.9	366.3
85°	15.4	18.8	54.8	67.3	78.2	75.3	26.2	51.4	59.3	101.6
87.5°	3.4	5.7	20.0	15.4	14.8	16.0	6.3	12.0	11.4	12.0
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°
1023.6	0°	1023.6	1023.6	1023.6	1023.6	1023.6	1023.6	1023.6	1023.6	1023.6	1023.6
1030.5	2.5°	1029.9	1027.6	1021.4	1014.5	1006.5	1002.0	999.1	998.5	994.5	991.7
1053.3	5°	1047.0	1044.7	1032.8	1018.5	1003.1	991.1	979.7	969.4	954.6	951.7
1086.4	7.5°	1081.3	1075.0	1055.6	1036.2	1007.1	972.3	930.1	881.6	838.2	825.1
1130.3	10°	1123.5	1114.9	1090.4	1056.2	991.7	897.0	794.8	700.1	624.8	603.7
1182.3	12.5°	1171.4	1164.0	1131.5	1068.1	927.2	755.5	599.1	481.6	408.5	390.3
1237.6	15°	1228.5	1217.6	1172.6	1049.9	811.9	574.0	411.4	341.8	315.5	312.1
1300.9	17.5°	1289.0	1271.3	1209.1	984.3	656.7	408.0	317.8	297.8	286.4	283.0
1364.8	20°	1344.3	1321.5	1230.8	885.0	490.7	317.8	284.7	271.6	261.3	257.3
1428.8	22.5°	1399.7	1367.1	1230.8	749.8	368.0	281.9	261.3	249.3	237.4	232.2
1497.2	25°	1457.3	1413.9	1209.1	599.1	296.1	258.5	239.1	226.0	215.7	209.4
1562.3	27.5°	1513.2	1453.3	1159.4	456.5	263.6	237.9	218.5	206.0	196.3	191.7
1633.0	30°	1566.3	1492.1	1089.8	346.3	242.5	218.0	199.7	188.9	179.2	174.6
1724.9	32.5°	1638.2	1541.2	1015.6	284.2	224.2	199.1	182.6	172.3	163.8	160.3
1844.1	35°	1738.0	1613.6	951.7	279.0	208.8	183.7	167.2	157.5	148.9	146.1
1998.2	37.5°	1879.5	1730.6	918.1	313.3	196.3	170.0	154.6	144.4	136.4	134.1
2193.9	40°	2054.1	1889.2	936.3	347.5	187.7	158.1	143.2	132.9	126.1	123.2
2418.7	42.5°	2261.2	2084.9	1037.3	373.7	182.0	147.8	132.4	121.0	116.4	115.3
2673.8	45°	2499.2	2300.0	1192.0	401.7	172.9	138.1	121.5	113.0	109.6	109.0
2951.1	47.5°	2769.6	2536.3	1371.1	436.5	163.8	129.0	113.0	107.3	104.4	103.3
3240.4	50°	3037.8	2774.2	1555.4	455.9	156.3	120.4	106.1	101.6	99.3	98.7
3546.2	52.5°	3318.5	3019.0	1704.3	437.6	150.1	113.5	100.4	97.0	94.7	94.1
3828.1	55°	3586.2	3217.0	1730.0	371.5	137.5	106.7	94.1	92.4	89.6	89.6
4113.9	57.5°	3816.7	3316.3	1548.6	272.7	125.0	96.4	87.9	86.2	83.9	83.3
4371.9	60°	4028.4	3287.7	1195.4	183.7	111.3	86.2	79.9	78.7	76.5	73.6
4596.1	62.5°	4147.6	3162.2	817.7	119.8	97.6	75.3	70.8	70.2	65.0	59.3
4762.1	65°	4192.7	2904.3	510.1	87.3	81.6	64.5	61.1	59.9	52.5	46.2
4856.3	67.5°	4153.3	2479.8	257.3	69.0	64.5	53.6	50.2	50.2	45.1	39.4
4850.6	70°	3995.8	1859.0	108.4	55.3	49.6	41.1	41.1	43.4	38.2	32.0
4598.9	72.5°	3654.1	1250.7	57.6	42.2	37.1	29.1	33.7	35.4	30.2	24.0
3764.2	75°	2904.9	762.9	39.9	31.4	23.4	20.5	25.7	26.8	20.5	16.0
2580.8	77.5°	1986.8	438.2	26.8	20.0	14.8	12.0	17.7	16.5	10.8	7.4
995.1	80°	872.4	182.6	15.4	9.1	5.7	4.6	6.3	4.6	3.4	2.3
136.4	82.5°	102.1	42.8	5.7	3.4	2.3	1.1	0.6	0.0	0.0	0.0
41.7	85°	21.1	5.1	2.9	1.1	0.6	0.0	0.0	0.0	0.0	0.0
7.4	87.5°	4.0	1.1	0.6	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

180°
1023.6
994.5
950.6
818.8
595.7
385.1
308.7
281.3
255.1
229.4
207.1
191.7
175.2
160.3
146.1
133.5
122.7
115.3
108.4
103.3
98.7
94.1
89.0
82.7
73.0
58.2
45.6
38.8
31.4
24.0
15.4
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