

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: P947134

Luminaire Tested: **GALN-SB2C-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947134
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-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 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: 9953 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

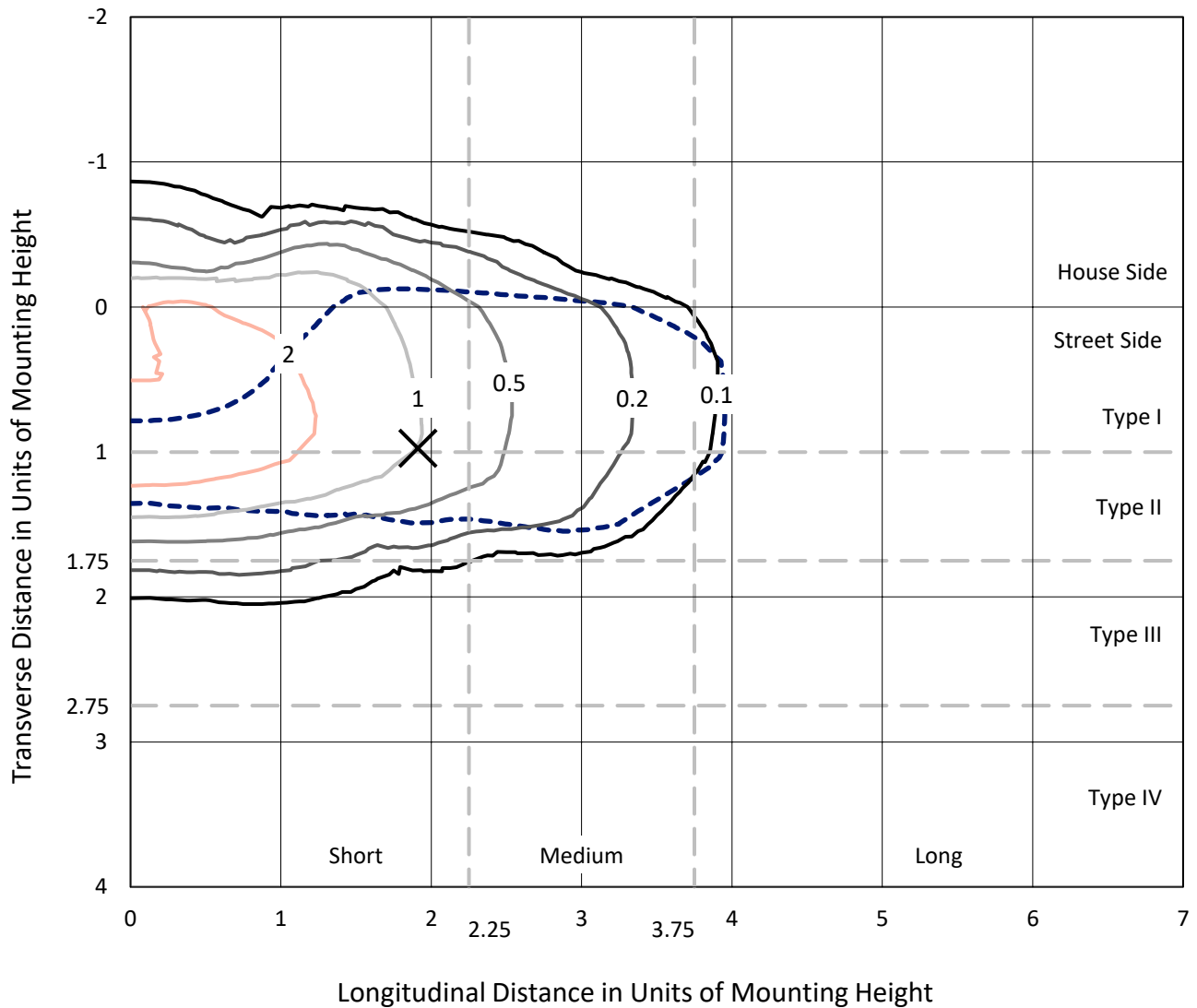
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

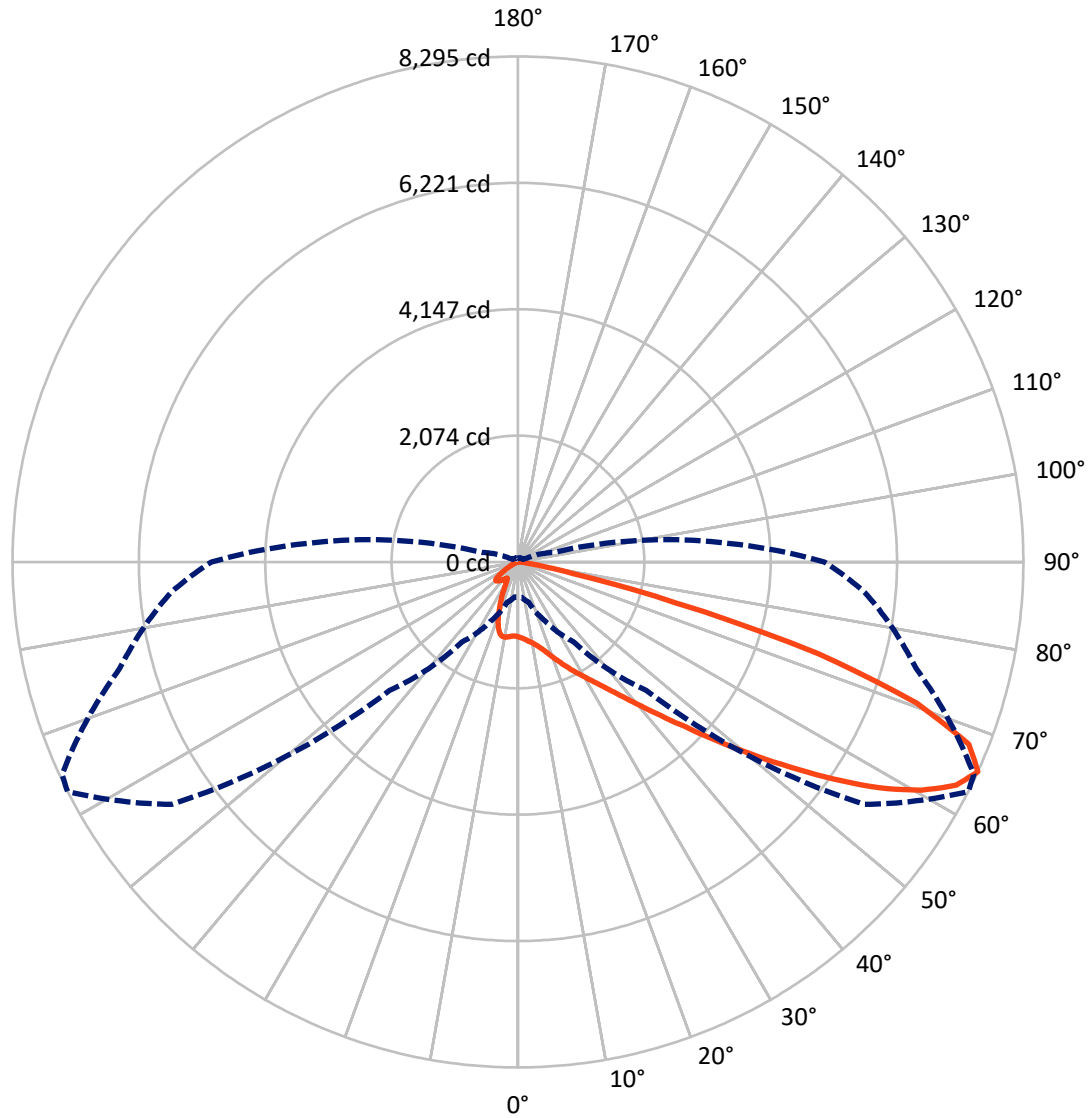
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	1463.0	0.0	1463.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	8490.0	0.0	8490.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	9953.0	0.0	9953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	1.2
10°-20°	321.1	3.2
20°-30°	559.2	5.6
30°-40°	1007.8	10.1
40°-50°	1998.9	20.1
50°-60°	2722.8	27.4
60°-70°	2173.3	21.8
70°-80°	983.5	9.9
80°-90°	70.7	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°	9953.0	100.0
0°-180°	9953.0	100.0

Coefficient of Utilization



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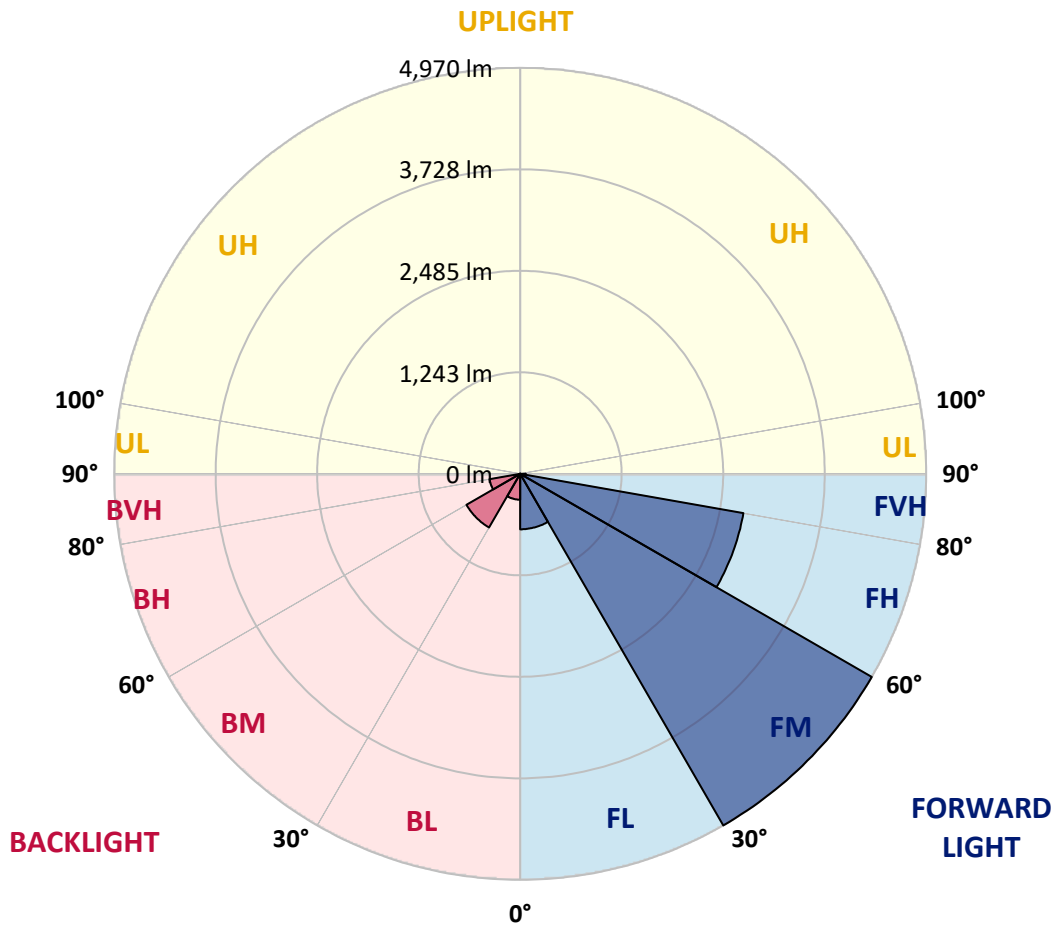
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	679.4	6.8			
FM (30°-60°)	4970.3	49.9			
FH (60°-80°)	2774.8	27.9			G2/5000
FVH (80°-90°)	65.4	0.7			G1/100
BL (0°-30°)	316.6	3.2	B1/500		
BM (30°-60°)	759.2	7.6	B1/1000		
BH (60°-80°)	381.9	3.8	B1/500		G1/500
BVH (80°-90°)	5.2	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°	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4
2.5°	1257.1	1253.7	1258.5	1256.5	1255.1	1252.4	1251.0	1249.6	1246.9	1244.8
5°	1260.6	1258.5	1263.3	1267.4	1271.5	1275.6	1277.7	1280.4	1277.7	1272.2
7.5°	1231.8	1230.4	1240.7	1253.0	1271.5	1287.3	1304.4	1314.0	1314.7	1312.6
10°	1229.8	1226.3	1236.6	1251.7	1275.6	1303.7	1333.8	1354.4	1357.1	1366.0
12.5°	1261.9	1258.5	1272.9	1289.3	1314.0	1343.4	1380.4	1409.2	1413.3	1425.6
15°	1316.0	1311.2	1327.7	1348.9	1380.4	1413.9	1453.0	1479.0	1482.4	1497.5
17.5°	1379.0	1374.2	1393.4	1416.0	1450.2	1496.1	1541.3	1570.1	1574.2	1583.8
20°	1459.8	1453.7	1468.7	1489.3	1525.6	1580.3	1634.4	1675.5	1674.8	1674.8
22.5°	1553.6	1544.0	1557.1	1573.5	1607.7	1674.1	1746.0	1794.7	1794.7	1775.5
25°	1654.3	1644.7	1659.1	1674.1	1704.3	1779.6	1863.8	1924.1	1926.8	1893.9
27.5°	1780.3	1767.9	1778.9	1796.7	1814.5	1891.2	1991.2	2061.0	2062.4	2011.7
30°	2022.7	1987.7	1953.5	1934.3	1942.6	2018.6	2125.4	2202.7	2209.6	2139.8
32.5°	2466.4	2459.5	2339.0	2181.5	2099.4	2155.5	2275.3	2368.4	2372.6	2282.9
35°	3155.9	3147.7	2953.9	2654.0	2386.3	2339.0	2457.5	2567.7	2565.0	2463.6
37.5°	3978.9	3971.4	3716.0	3314.7	2881.3	2616.3	2692.3	2808.0	2825.2	2692.3
40°	4682.1	4654.0	4492.5	4105.6	3538.6	3076.4	3026.5	3103.2	3121.0	2963.5
42.5°	5214.8	5190.9	5108.7	4867.0	4334.3	3757.1	3420.2	3449.6	3469.5	3280.5
45°	5490.8	5485.3	5518.2	5495.6	5145.0	4592.4	3983.0	3860.5	3868.0	3631.8
47.5°	5529.8	5527.1	5677.0	5889.3	5842.0	5534.6	4705.4	4372.6	4345.9	4028.2
50°	5299.7	5294.3	5581.8	5979.7	6307.6	6326.1	5525.7	4949.8	4891.0	4438.4
52.5°	4565.0	4563.7	5036.1	5698.2	6471.3	7019.1	6336.4	5583.9	5485.3	4872.5
55°	3512.6	3537.9	4079.6	4862.2	6172.8	7352.5	7064.3	6287.8	6136.5	5309.3
57.5°	2488.3	2525.2	3060.7	3757.7	5247.0	7155.3	7556.6	6993.0	6830.1	5744.8
60°	1336.6	1369.4	1905.6	2737.5	3903.6	6419.9	7816.1	7605.2	7451.1	6158.4
62.5°	796.3	807.3	1029.1	1767.3	2640.3	4904.7	7705.8	8071.5	7944.8	6505.5
65°	571.7	573.8	685.4	1079.1	1602.9	2979.9	6932.8	8294.7	8255.7	6767.1
67.5°	481.4	480.0	526.5	716.9	1092.1	1492.7	5313.4	7979.0	8144.7	6932.8
70°	412.9	414.9	469.7	525.2	821.0	844.9	2641.7	6947.2	7300.5	6976.6
72.5°	307.4	314.3	365.0	478.6	619.7	581.3	912.0	5151.2	5790.0	6573.3
75°	217.1	220.5	256.8	402.6	462.2	423.2	465.6	2662.9	3481.8	5039.5
77.5°	167.1	173.2	194.5	281.4	455.3	297.2	284.8	921.6	1416.0	3044.3
80°	90.4	101.3	140.4	203.4	319.8	210.2	141.1	367.0	480.0	1423.5
82.5°	46.6	52.0	97.9	146.5	182.1	183.5	69.8	152.7	197.9	439.6
85°	18.5	22.6	65.7	80.8	93.8	90.4	31.5	61.6	71.2	121.9
87.5°	4.1	6.8	24.0	18.5	17.8	19.2	7.5	14.4	13.7	14.4
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°
1228.4	0°	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4
1236.6	2.5°	1235.9	1233.2	1225.6	1217.4	1207.8	1202.4	1198.9	1198.3	1193.5	1190.0
1264.0	5°	1256.5	1253.7	1239.3	1222.2	1203.7	1189.4	1175.7	1163.3	1145.5	1142.1
1303.7	7.5°	1297.5	1290.0	1266.7	1243.5	1208.5	1166.8	1116.1	1057.9	1005.9	990.1
1356.4	10°	1348.2	1337.9	1308.5	1267.4	1190.0	1076.4	953.8	840.2	749.8	724.4
1418.7	12.5°	1405.7	1396.8	1357.8	1281.8	1112.7	906.6	719.0	577.9	490.3	468.3
1485.2	15°	1474.2	1461.2	1407.1	1259.9	974.4	688.8	493.7	410.1	378.7	374.5
1561.2	17.5°	1546.8	1525.6	1450.9	1181.1	788.1	489.6	381.4	357.4	343.7	339.6
1637.9	20°	1613.2	1585.8	1476.9	1062.0	588.9	381.4	341.7	325.9	313.6	308.8
1714.5	22.5°	1679.6	1640.6	1476.9	899.7	441.6	338.3	313.6	299.2	284.8	278.7
1796.7	25°	1748.8	1696.7	1450.9	719.0	355.4	310.2	286.9	271.1	258.8	251.3
1874.8	27.5°	1815.9	1744.0	1391.4	547.8	316.3	285.5	262.2	247.2	235.5	230.1
1959.7	30°	1879.6	1790.5	1307.8	415.6	291.0	261.6	239.7	226.6	215.0	209.5
2069.9	32.5°	1965.8	1849.4	1218.8	341.0	269.1	239.0	219.1	206.8	196.5	192.4
2213.0	35°	2085.7	1936.4	1142.1	334.8	250.6	220.5	200.6	189.0	178.7	175.3
2397.9	37.5°	2255.5	2076.8	1101.7	375.9	235.5	204.0	185.6	173.2	163.6	160.9
2632.7	40°	2465.0	2267.1	1123.6	417.0	225.3	189.7	171.9	159.5	151.3	147.9
2902.5	42.5°	2713.5	2502.0	1244.8	448.5	218.4	177.3	158.9	145.2	139.7	138.3
3208.6	45°	2999.1	2760.1	1430.4	482.0	207.5	165.7	145.8	135.6	131.5	130.8
3541.4	47.5°	3323.6	3043.6	1645.4	523.8	196.5	154.7	135.6	128.7	125.3	123.9
3888.5	50°	3645.5	3329.1	1866.5	547.1	187.6	144.5	127.4	121.9	119.1	118.5
4255.5	52.5°	3982.3	3622.9	2045.3	525.2	180.1	136.3	120.5	116.4	113.7	113.0
4593.8	55°	4303.5	3860.5	2076.1	445.8	165.0	128.0	113.0	110.9	107.5	107.5
4936.8	57.5°	4580.1	3979.6	1858.3	327.3	150.0	115.7	105.4	103.4	100.7	100.0
5246.3	60°	4834.1	3945.4	1434.5	220.5	133.5	103.4	95.9	94.5	91.8	88.3
5515.4	62.5°	4977.2	3794.7	981.2	143.8	117.1	90.4	84.9	84.2	78.1	71.2
5714.7	65°	5031.3	3485.2	612.1	104.8	97.9	77.4	73.3	71.9	63.0	55.5
5827.7	67.5°	4984.1	2975.8	308.8	82.9	77.4	64.4	60.3	60.3	54.1	47.2
5820.8	70°	4795.1	2230.8	130.1	66.4	59.6	49.3	49.3	52.0	45.9	38.3
5518.8	72.5°	4384.9	1500.9	69.2	50.7	44.5	34.9	40.4	42.5	36.3	28.8
4517.1	75°	3485.9	915.5	47.9	37.7	28.1	24.6	30.8	32.2	24.6	19.2
3097.0	77.5°	2384.2	525.9	32.2	24.0	17.8	14.4	21.2	19.9	13.0	8.9
1194.2	80°	1046.9	219.1	18.5	11.0	6.8	5.5	7.5	5.5	4.1	2.7
163.6	82.5°	122.6	51.4	6.8	4.1	2.7	1.4	0.7	0.0	0.0	0.0
50.0	85°	25.3	6.2	3.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0
8.9	87.5°	4.8	1.4	0.7	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>
1228.4
1193.5
1140.7
982.6
714.8
462.2
370.4
337.6
306.1
275.3
248.6
230.1
210.2
192.4
175.3
160.2
147.2
138.3
130.1
123.9
118.5
113.0
106.8
99.3
87.6
69.8
54.8
46.6
37.7
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