

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: P949444

Luminaire Tested: **GALN-SB4A-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949444
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-SB4A-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 350mA 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: 9956 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

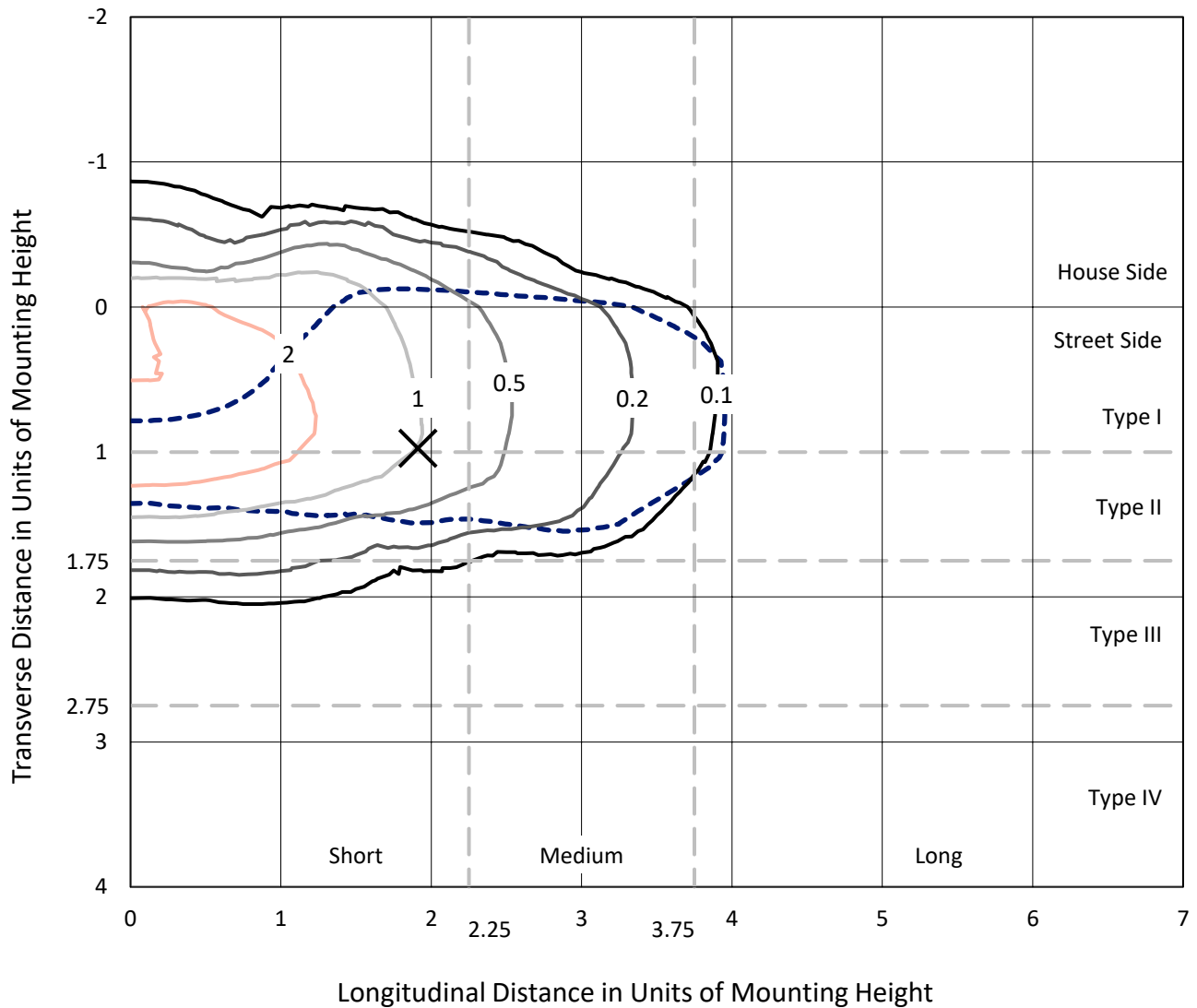
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

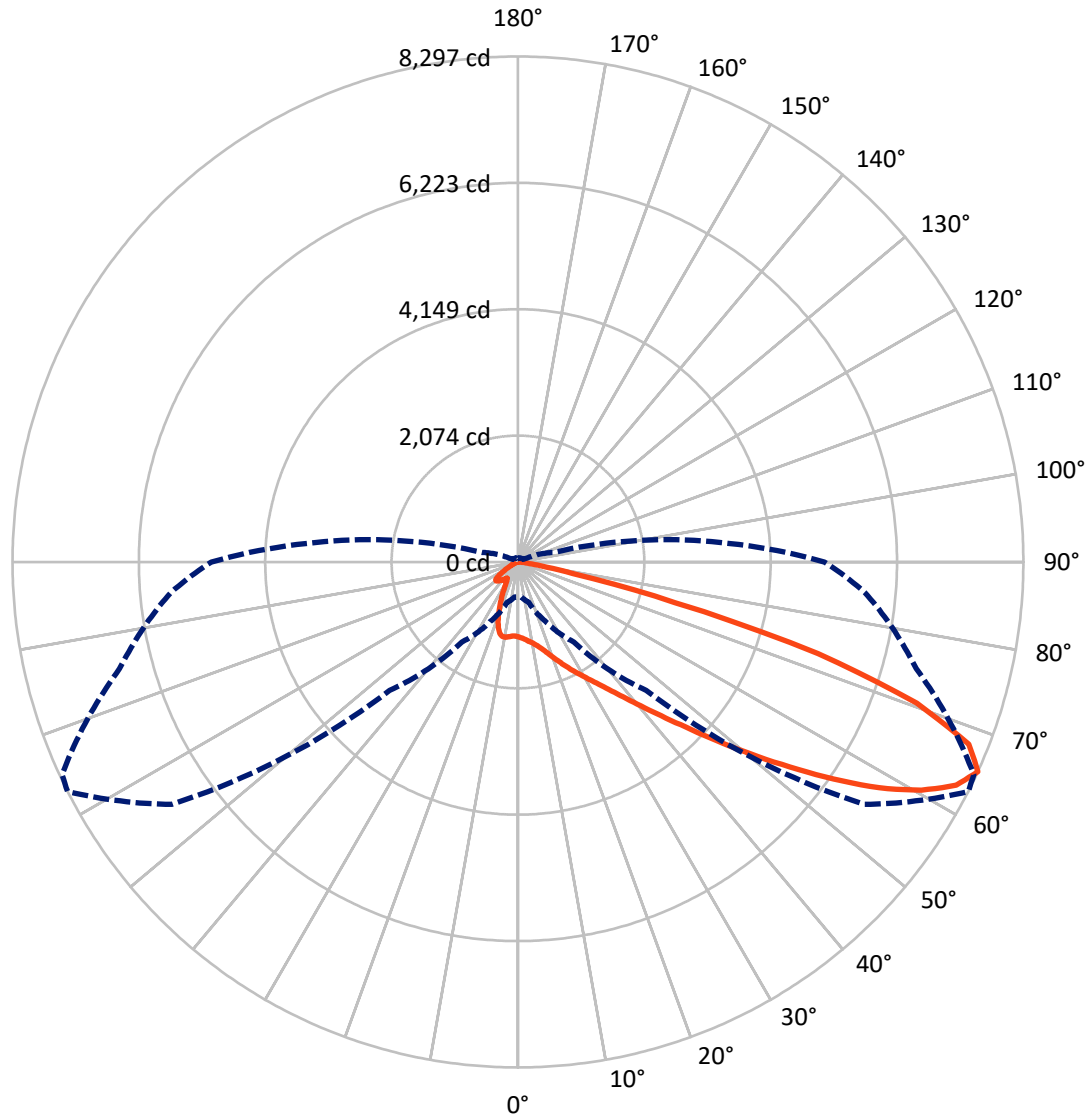
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1463.5	0.0	1463.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	8492.5	0.0	8492.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	9956.0	0.0	9956.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	1.2
10°-20°	321.2	3.2
20°-30°	559.3	5.6
30°-40°	1008.1	10.1
40°-50°	1999.5	20.1
50°-60°	2723.6	27.4
60°-70°	2174.0	21.8
70°-80°	983.8	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°	9956.0	100.0
0°-180°	9956.0	100.0

Coefficient of Utilization



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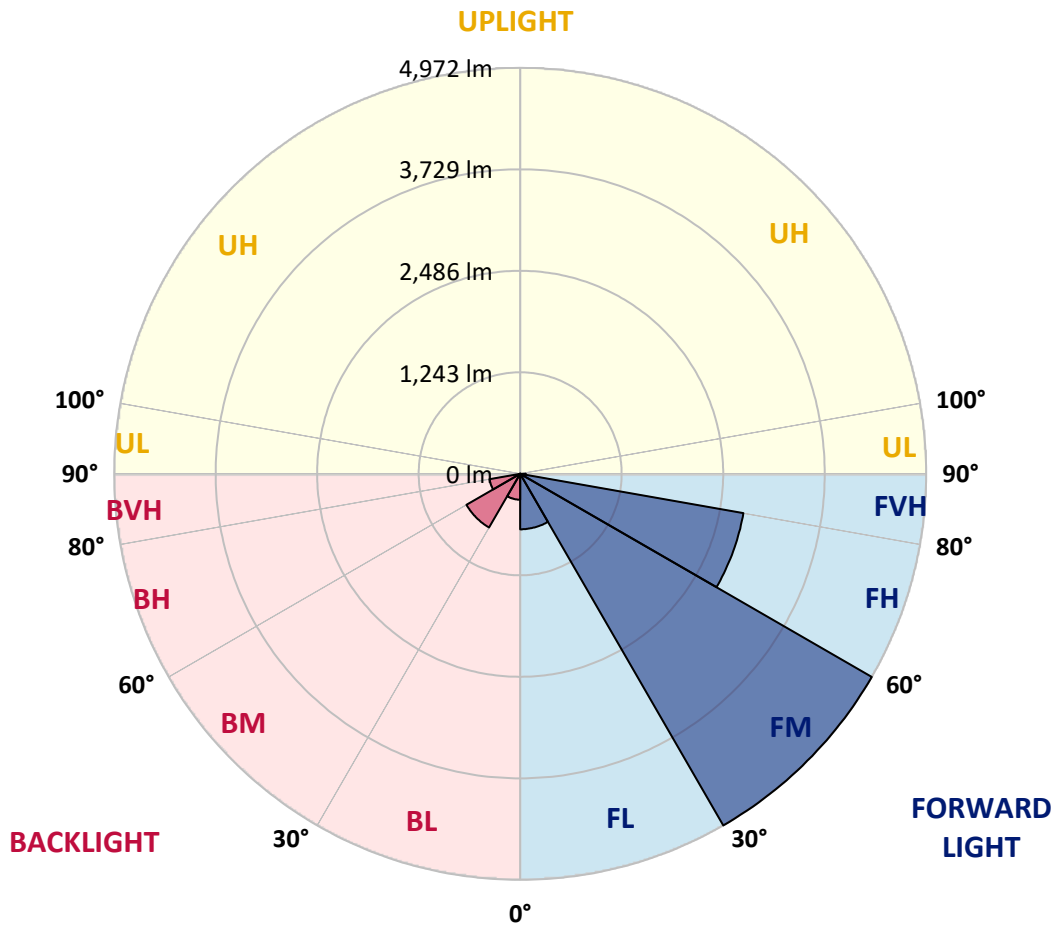
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	679.6	6.8			
FM (30°-60°)	4971.8	49.9			
FH (60°-80°)	2775.7	27.9			G2/5000
FVH (80°-90°)	65.5	0.7			G1/100
BL (0°-30°)	316.7	3.2	B1/500		
BM (30°-60°)	759.4	7.6	B1/1000		
BH (60°-80°)	382.1	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°	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8
2.5°	1257.5	1254.1	1258.9	1256.8	1255.5	1252.7	1251.4	1250.0	1247.3	1245.2
5°	1261.0	1258.9	1263.7	1267.8	1271.9	1276.0	1278.1	1280.8	1278.1	1272.6
7.5°	1232.2	1230.8	1241.1	1253.4	1271.9	1287.7	1304.8	1314.4	1315.1	1313.0
10°	1230.1	1226.7	1237.0	1252.0	1276.0	1304.1	1334.2	1354.8	1357.5	1366.4
12.5°	1262.3	1258.9	1273.3	1289.7	1314.4	1343.8	1380.8	1409.6	1413.7	1426.0
15°	1316.4	1311.6	1328.1	1349.3	1380.8	1414.4	1453.4	1479.4	1482.9	1497.9
17.5°	1379.4	1374.6	1393.8	1416.4	1450.7	1496.6	1541.8	1570.5	1574.6	1584.2
20°	1460.3	1454.1	1469.2	1489.7	1526.0	1580.8	1634.9	1676.0	1675.3	1675.3
22.5°	1554.1	1544.5	1557.5	1574.0	1608.2	1674.6	1746.6	1795.2	1795.2	1776.0
25°	1654.8	1645.2	1659.6	1674.6	1704.8	1780.1	1864.4	1924.6	1927.4	1894.5
27.5°	1780.8	1768.5	1779.4	1797.2	1815.1	1891.8	1991.8	2061.6	2063.0	2012.3
30°	2023.3	1988.3	1954.1	1934.9	1943.1	2019.2	2126.0	2203.4	2210.3	2140.4
32.5°	2467.1	2460.3	2339.7	2182.2	2100.0	2156.1	2276.0	2369.2	2373.3	2283.5
35°	3156.8	3148.6	2954.8	2654.8	2387.0	2339.7	2458.2	2568.5	2565.7	2464.4
37.5°	3980.1	3972.6	3717.1	3315.7	2882.2	2617.1	2693.1	2808.9	2826.0	2693.1
40°	4683.5	4655.4	4493.8	4106.8	3539.7	3077.4	3027.4	3104.1	3121.9	2964.4
42.5°	5216.4	5192.4	5110.2	4868.5	4335.6	3758.2	3421.2	3450.7	3470.5	3281.5
45°	5492.4	5486.9	5519.8	5497.2	5146.5	4593.8	3984.2	3861.6	3869.2	3632.9
47.5°	5531.5	5528.7	5678.7	5891.1	5843.8	5536.3	4706.8	4373.9	4347.2	4029.4
50°	5301.3	5295.9	5583.5	5981.5	6309.5	6328.0	5527.4	4951.3	4892.4	4439.7
52.5°	4566.4	4565.0	5037.6	5700.0	6473.2	7021.2	6338.3	5585.6	5486.9	4873.9
55°	3513.7	3539.0	4080.8	4863.7	6174.6	7354.7	7066.4	6289.7	6138.3	5310.9
57.5°	2489.0	2526.0	3061.6	3758.9	5248.6	7157.5	7558.9	6995.2	6832.1	5746.5
60°	1337.0	1369.9	1906.2	2738.3	3904.8	6421.9	7818.4	7607.5	7453.4	6160.2
62.5°	796.6	807.5	1029.4	1767.8	2641.1	4906.1	7708.2	8073.9	7947.2	6507.5
65°	571.9	574.0	685.6	1079.4	1603.4	2980.8	6934.9	8297.2	8258.2	6769.1
67.5°	481.5	480.1	526.7	717.1	1092.5	1493.1	5315.0	7981.5	8147.2	6934.9
70°	413.0	415.1	469.9	525.3	821.2	845.2	2642.4	6949.3	7302.7	6978.7
72.5°	307.5	314.4	365.1	478.8	619.9	581.5	912.3	5152.7	5791.7	6575.3
75°	217.1	220.5	256.8	402.7	462.3	423.3	465.8	2663.7	3482.9	5041.1
77.5°	167.1	173.3	194.5	281.5	455.5	297.3	284.9	921.9	1416.4	3045.2
80°	90.4	101.4	140.4	203.4	319.9	210.3	141.1	367.1	480.1	1424.0
82.5°	46.6	52.1	97.9	146.6	182.2	183.6	69.9	152.7	197.9	439.7
85°	18.5	22.6	65.8	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°
1228.8	0°	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8
1237.0	2.5°	1236.3	1233.6	1226.0	1217.8	1208.2	1202.7	1199.3	1198.6	1193.8	1190.4
1264.4	5°	1256.8	1254.1	1239.7	1222.6	1204.1	1189.7	1176.0	1163.7	1145.9	1142.5
1304.1	7.5°	1297.9	1290.4	1267.1	1243.8	1208.9	1167.1	1116.4	1058.2	1006.2	990.4
1356.8	10°	1348.6	1338.3	1308.9	1267.8	1190.4	1076.7	954.1	840.4	750.0	724.7
1419.2	12.5°	1406.2	1397.3	1358.2	1282.2	1113.0	906.8	719.2	578.1	490.4	468.5
1485.6	15°	1474.6	1461.6	1407.5	1260.3	974.7	689.0	493.8	410.3	378.8	374.7
1561.6	17.5°	1547.2	1526.0	1451.4	1181.5	788.4	489.7	381.5	357.5	343.8	339.7
1638.3	20°	1613.7	1586.3	1477.4	1062.3	589.0	381.5	341.8	326.0	313.7	308.9
1715.1	22.5°	1680.1	1641.1	1477.4	900.0	441.8	338.4	313.7	299.3	284.9	278.8
1797.2	25°	1749.3	1697.2	1451.4	719.2	355.5	310.3	287.0	271.2	258.9	251.4
1875.3	27.5°	1816.4	1744.5	1391.8	547.9	316.4	285.6	262.3	247.3	235.6	230.1
1960.3	30°	1880.1	1791.1	1308.2	415.8	291.1	261.6	239.7	226.7	215.1	209.6
2070.5	32.5°	1966.4	1850.0	1219.2	341.1	269.2	239.0	219.2	206.8	196.6	192.5
2213.7	35°	2086.3	1937.0	1142.5	334.9	250.7	220.5	200.7	189.0	178.8	175.3
2398.6	37.5°	2256.1	2077.4	1102.0	376.0	235.6	204.1	185.6	173.3	163.7	161.0
2633.5	40°	2465.7	2267.8	1124.0	417.1	225.3	189.7	171.9	159.6	151.4	147.9
2903.4	42.5°	2714.4	2502.7	1245.2	448.6	218.5	177.4	158.9	145.2	139.7	138.4
3209.6	45°	3000.0	2760.9	1430.8	482.2	207.5	165.8	145.9	135.6	131.5	130.8
3542.4	47.5°	3324.6	3044.5	1645.9	524.0	196.6	154.8	135.6	128.8	125.3	124.0
3889.7	50°	3646.5	3330.1	1867.1	547.3	187.7	144.5	127.4	121.9	119.2	118.5
4256.8	52.5°	3983.5	3623.9	2045.9	525.3	180.1	136.3	120.5	116.4	113.7	113.0
4595.2	55°	4304.8	3861.6	2076.7	445.9	165.1	128.1	113.0	111.0	107.5	107.5
4938.3	57.5°	4581.5	3980.8	1858.9	327.4	150.0	115.8	105.5	103.4	100.7	100.0
5247.9	60°	4835.6	3946.5	1434.9	220.5	133.6	103.4	95.9	94.5	91.8	88.4
5517.1	62.5°	4978.7	3795.9	981.5	143.8	117.1	90.4	84.9	84.2	78.1	71.2
5716.4	65°	5032.8	3486.3	612.3	104.8	97.9	77.4	73.3	71.9	63.0	55.5
5829.4	67.5°	4985.6	2976.7	308.9	82.9	77.4	64.4	60.3	60.3	54.1	47.3
5822.6	70°	4796.5	2231.5	130.1	66.4	59.6	49.3	49.3	52.1	45.9	38.4
5520.5	72.5°	4386.3	1501.4	69.2	50.7	44.5	34.9	40.4	42.5	36.3	28.8
4518.5	75°	3487.0	915.7	47.9	37.7	28.1	24.7	30.8	32.2	24.7	19.2
3097.9	77.5°	2384.9	526.0	32.2	24.0	17.8	14.4	21.2	19.9	13.0	8.9
1194.5	80°	1047.3	219.2	18.5	11.0	6.8	5.5	7.5	5.5	4.1	2.7
163.7	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

180°
1228.8
1193.8
1141.1
982.9
715.1
462.3
370.5
337.7
306.2
275.3
248.6
230.1
210.3
192.5
175.3
160.3
147.3
138.4
130.1
124.0
118.5
113.0
106.8
99.3
87.7
69.9
54.8
46.6
37.7
28.8
18.5
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