

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: P946693

Luminaire Tested: **GALN-SB2B-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946693
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-SB2B-735-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA 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: 8606 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

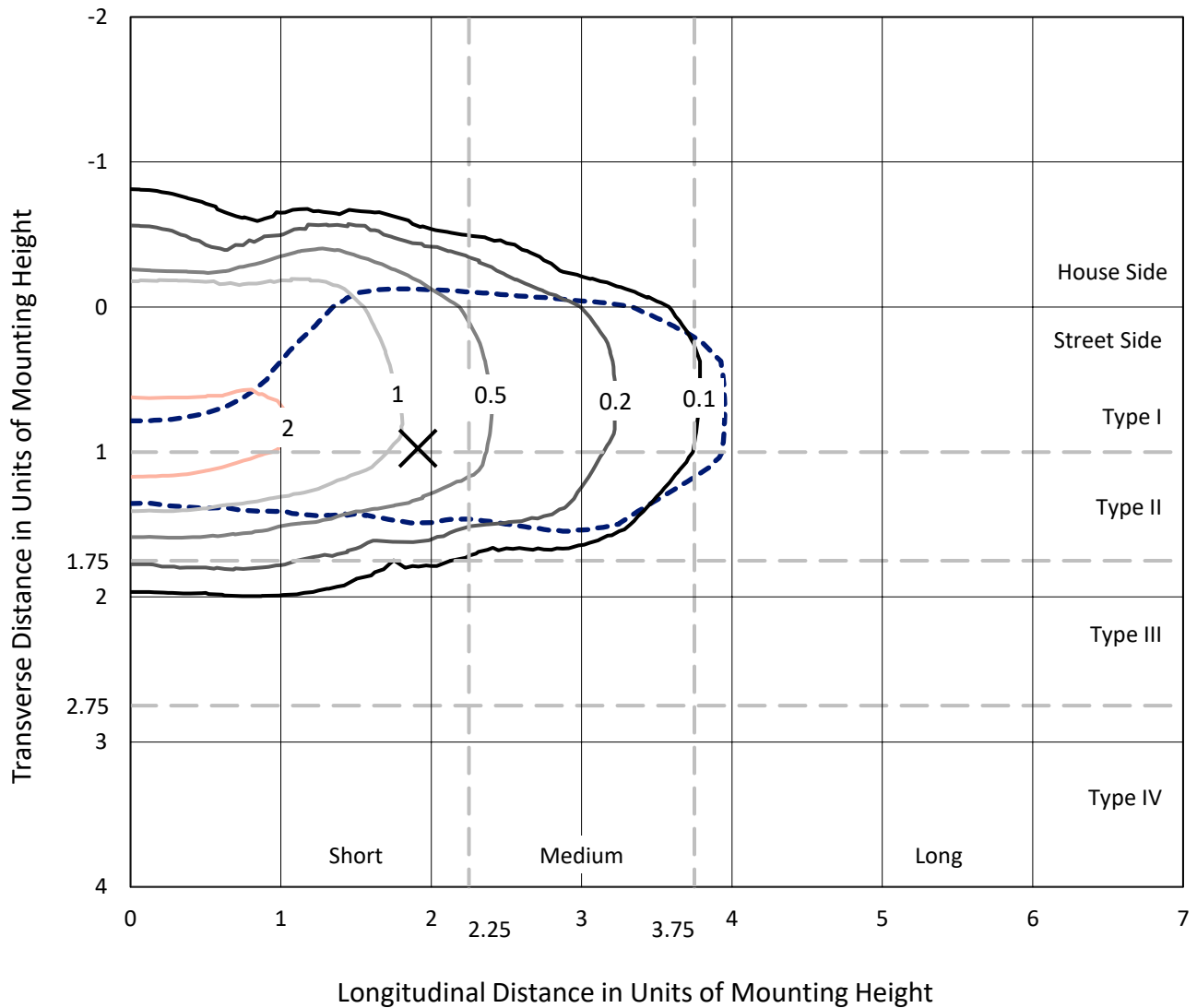
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

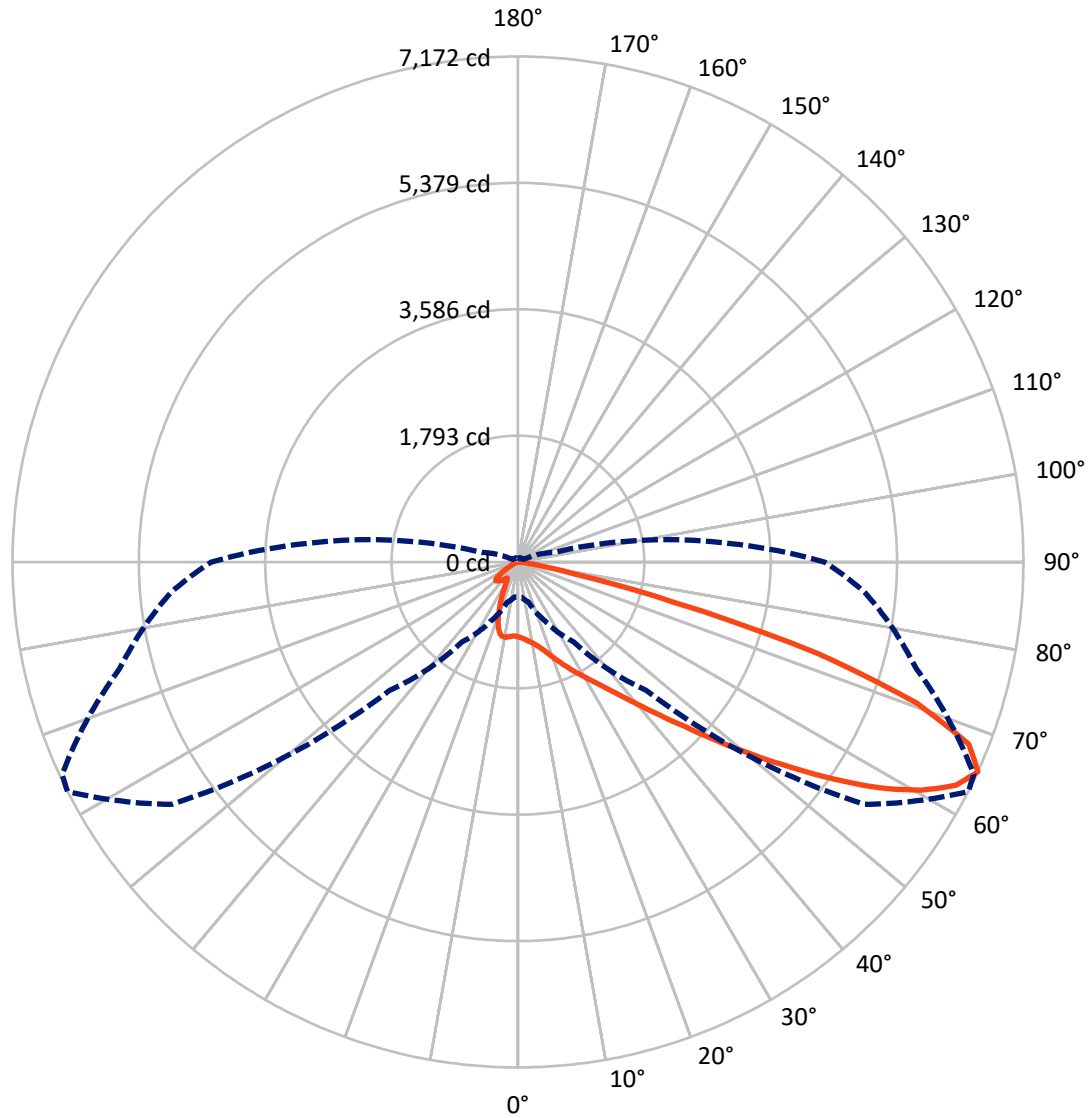
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	1265.0	0.0	1265.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	7341.0	0.0	7341.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	8606.0	0.0	8606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	1.2
10°-20°	277.7	3.2
20°-30°	483.5	5.6
30°-40°	871.4	10.1
40°-50°	1728.3	20.1
50°-60°	2354.3	27.4
60°-70°	1879.2	21.8
70°-80°	850.4	9.9
80°-90°	61.1	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°	8606.0	100.0
0°-180°	8606.0	100.0

Coefficient of Utilization



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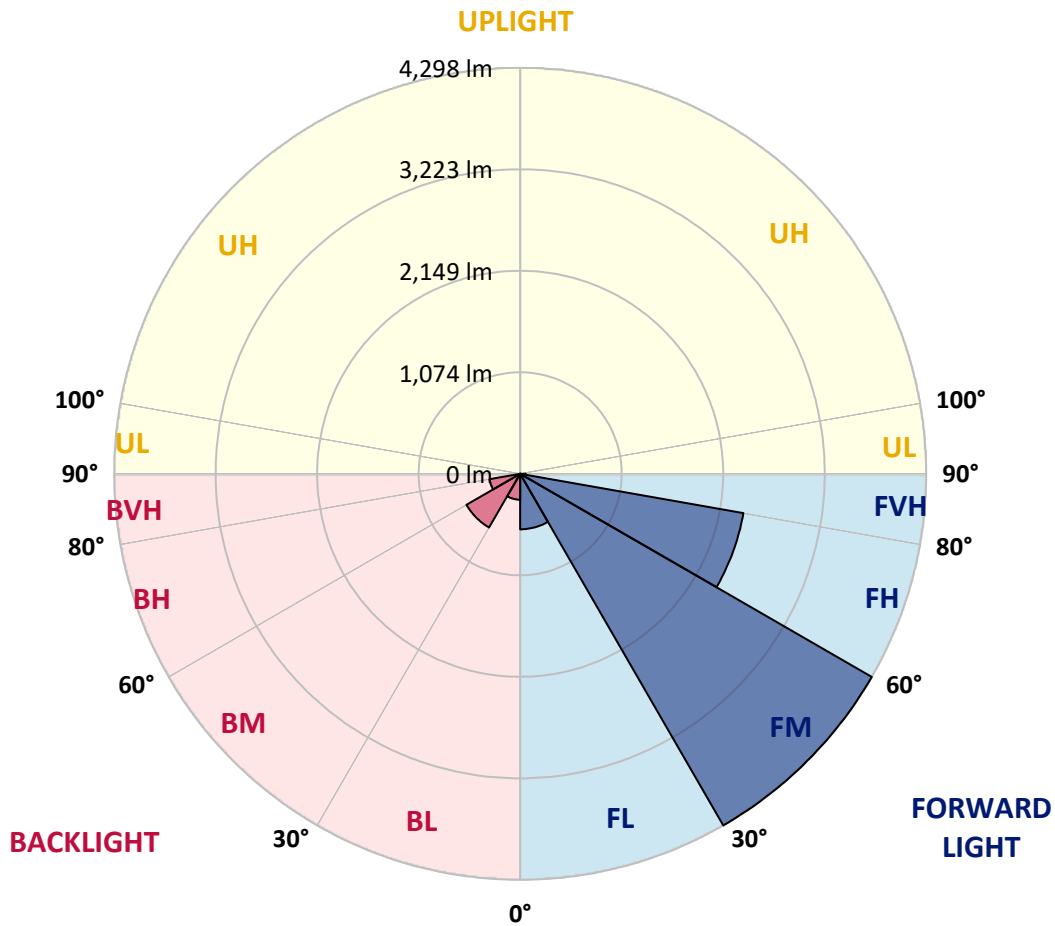
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	587.5	6.8			
FM (30°-60°)	4297.6	49.9			
FH (60°-80°)	2399.3	27.9			G2/5000
FVH (80°-90°)	56.6	0.7			G1/100
BL (0°-30°)	273.8	3.2	B1/500		
BM (30°-60°)	656.5	7.6	B1/1000		
BH (60°-80°)	330.2	3.8	B1/500		G1/500
BVH (80°-90°)	4.5	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°	1062.1	1062.1	1062.1	1062.1	1062.1	1062.1	1062.1	1062.1	1062.1	1062.1
2.5°	1087.0	1084.0	1088.2	1086.4	1085.2	1082.9	1081.7	1080.5	1078.1	1076.4
5°	1090.0	1088.2	1092.3	1095.9	1099.4	1103.0	1104.8	1107.1	1104.8	1100.0
7.5°	1065.1	1063.9	1072.8	1083.5	1099.4	1113.1	1127.9	1136.1	1136.7	1135.0
10°	1063.3	1060.4	1069.2	1082.3	1103.0	1127.3	1153.3	1171.1	1173.4	1181.1
12.5°	1091.2	1088.2	1100.6	1114.8	1136.1	1161.6	1193.6	1218.4	1222.0	1232.7
15°	1137.9	1133.8	1148.0	1166.3	1193.6	1222.6	1256.3	1278.8	1281.8	1294.8
17.5°	1192.4	1188.3	1204.8	1224.4	1254.0	1293.6	1332.7	1357.6	1361.1	1369.4
20°	1262.3	1256.9	1270.0	1287.7	1319.1	1366.5	1413.2	1448.8	1448.2	1448.2
22.5°	1343.4	1335.1	1346.3	1360.5	1390.1	1447.6	1509.7	1551.8	1551.8	1535.2
25°	1430.4	1422.1	1434.5	1447.6	1473.6	1538.7	1611.6	1663.7	1666.0	1637.6
27.5°	1539.3	1528.7	1538.2	1553.5	1568.9	1635.3	1721.7	1782.1	1783.3	1739.5
30°	1748.9	1718.7	1689.1	1672.5	1679.7	1745.4	1837.7	1904.6	1910.6	1850.2
32.5°	2132.6	2126.7	2022.5	1886.3	1815.2	1863.8	1967.4	2047.9	2051.5	1973.9
35°	2728.8	2721.7	2554.1	2294.8	2063.3	2022.5	2124.9	2220.2	2217.8	2130.2
37.5°	3440.4	3433.9	3213.1	2866.1	2491.4	2262.2	2328.0	2428.0	2442.8	2328.0
40°	4048.5	4024.2	3884.5	3549.9	3059.7	2660.1	2616.9	2683.2	2698.6	2562.4
42.5°	4509.1	4488.4	4417.3	4208.3	3747.7	3248.6	2957.3	2982.8	2999.9	2836.5
45°	4747.7	4742.9	4771.4	4751.8	4448.7	3970.9	3444.0	3338.0	3344.5	3140.2
47.5°	4781.4	4779.1	4908.7	5092.2	5051.4	4785.6	4068.6	3780.9	3757.8	3483.0
50°	4582.5	4577.8	4826.4	5170.4	5454.0	5470.0	4777.9	4280.0	4229.0	3837.7
52.5°	3947.2	3946.0	4354.5	4927.1	5595.5	6069.1	5478.9	4828.2	4742.9	4213.0
55°	3037.2	3059.1	3527.5	4204.2	5337.4	6357.5	6108.2	5436.8	5306.0	4590.8
57.5°	2151.5	2183.5	2646.5	3249.2	4536.9	6187.0	6533.9	6046.6	5905.7	4967.3
60°	1155.7	1184.1	1647.7	2367.0	3375.3	5551.1	6758.3	6575.9	6442.7	5324.9
62.5°	688.6	698.0	889.9	1528.1	2283.0	4240.9	6663.0	6979.1	6869.6	5625.1
65°	494.4	496.1	592.6	933.1	1386.0	2576.6	5994.5	7172.1	7138.4	5851.3
67.5°	416.2	415.0	455.3	619.9	944.3	1290.7	4594.3	6899.2	7042.5	5994.5
70°	357.0	358.8	406.1	454.1	709.9	730.6	2284.1	6007.0	6312.5	6032.4
72.5°	265.8	271.8	315.6	413.8	535.8	502.7	788.6	4454.0	5006.4	5683.7
75°	187.7	190.6	222.0	348.1	399.6	365.9	402.6	2302.5	3010.6	4357.5
77.5°	144.5	149.8	168.1	243.3	393.7	257.0	246.3	796.9	1224.4	2632.3
80°	78.2	87.6	121.4	175.8	276.5	181.8	122.0	317.3	415.0	1230.9
82.5°	40.3	45.0	84.7	126.7	157.5	158.7	60.4	132.0	171.1	380.1
85°	16.0	19.5	56.8	69.9	81.1	78.2	27.2	53.3	61.6	105.4
87.5°	3.6	5.9	20.7	16.0	15.4	16.6	6.5	12.4	11.8	12.4
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°
1062.1	0°	1062.1	1062.1	1062.1	1062.1	1062.1	1062.1	1062.1	1062.1	1062.1	1062.1
1069.2	2.5°	1068.7	1066.3	1059.8	1052.7	1044.4	1039.6	1036.7	1036.1	1031.9	1029.0
1092.9	5°	1086.4	1084.0	1071.6	1056.8	1040.8	1028.4	1016.6	1005.9	990.5	987.5
1127.3	7.5°	1121.9	1115.4	1095.3	1075.2	1045.0	1008.9	965.0	914.7	869.7	856.1
1172.9	10°	1165.8	1156.9	1131.4	1095.9	1029.0	930.7	824.7	726.4	648.3	626.4
1226.7	12.5°	1215.5	1207.8	1174.0	1108.3	962.1	783.9	621.7	499.7	423.9	405.0
1284.2	15°	1274.7	1263.4	1216.7	1089.4	842.5	595.6	426.9	354.6	327.4	323.9
1349.9	17.5°	1337.4	1319.1	1254.6	1021.3	681.5	423.3	329.8	309.1	297.2	293.7
1416.2	20°	1394.9	1371.2	1277.1	918.3	509.2	329.8	295.4	281.8	271.2	267.0
1482.5	22.5°	1452.3	1418.6	1277.1	778.0	381.9	292.5	271.2	258.7	246.3	241.0
1553.5	25°	1512.1	1467.1	1254.6	621.7	307.3	268.2	248.1	234.5	223.8	217.3
1621.0	27.5°	1570.1	1508.0	1203.1	473.6	273.5	246.9	226.8	213.7	203.7	198.9
1694.5	30°	1625.2	1548.2	1130.8	359.4	251.6	226.2	207.2	196.0	185.9	181.2
1789.8	32.5°	1699.8	1599.1	1053.9	294.8	232.7	206.6	189.5	178.8	169.9	166.4
1913.5	35°	1803.4	1674.3	987.5	289.5	216.7	190.6	173.5	163.4	154.5	151.6
2073.4	37.5°	1950.2	1795.7	952.6	325.0	203.7	176.4	160.4	149.8	141.5	139.1
2276.4	40°	2131.4	1960.3	971.6	360.6	194.8	164.0	148.6	137.9	130.8	127.9
2509.7	42.5°	2346.3	2163.4	1076.4	387.8	188.9	153.3	137.4	125.5	120.8	119.6
2774.4	45°	2593.2	2386.6	1236.8	416.8	179.4	143.3	126.1	117.2	113.7	113.1
3062.1	47.5°	2873.8	2631.7	1422.7	452.9	169.9	133.8	117.2	111.3	108.3	107.2
3362.3	50°	3152.1	2878.6	1613.9	473.1	162.2	124.9	110.1	105.4	103.0	102.4
3679.6	52.5°	3443.4	3132.6	1768.5	454.1	155.7	117.8	104.2	100.6	98.3	97.7
3972.1	55°	3721.1	3338.0	1795.1	385.4	142.7	110.7	97.7	95.9	93.0	93.0
4268.7	57.5°	3960.2	3441.0	1606.8	283.0	129.7	100.1	91.2	89.4	87.0	86.4
4536.3	60°	4179.9	3411.4	1240.4	190.6	115.5	89.4	82.9	81.7	79.3	76.4
4769.0	62.5°	4303.6	3281.2	848.4	124.3	101.2	78.2	73.4	72.8	67.5	61.6
4941.3	65°	4350.4	3013.5	529.3	90.6	84.7	66.9	63.3	62.2	54.5	48.0
5039.0	67.5°	4309.6	2573.1	267.0	71.6	66.9	55.7	52.1	52.1	46.8	40.9
5033.0	70°	4146.1	1928.9	112.5	57.4	51.5	42.6	42.6	45.0	39.7	33.2
4771.9	72.5°	3791.5	1297.8	59.8	43.8	38.5	30.2	34.9	36.7	31.4	24.9
3905.8	75°	3014.1	791.6	41.4	32.6	24.3	21.3	26.6	27.8	21.3	16.6
2677.9	77.5°	2061.5	454.7	27.8	20.7	15.4	12.4	18.4	17.2	11.2	7.7
1032.5	80°	905.2	189.5	16.0	9.5	5.9	4.7	6.5	4.7	3.6	2.4
141.5	82.5°	106.0	44.4	5.9	3.6	2.4	1.2	0.6	0.0	0.0	0.0
43.2	85°	21.9	5.3	3.0	1.2	0.6	0.0	0.0	0.0	0.0	0.0
7.7	87.5°	4.1	1.2	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

<u>180°</u>
1062.1
1031.9
986.4
849.6
618.1
399.6
320.3
291.9
264.6
238.0
214.9
198.9
181.8
166.4
151.6
138.5
127.3
119.6
112.5
107.2
102.4
97.7
92.4
85.8
75.8
60.4
47.4
40.3
32.6
24.9
16.0
8.3
2.4
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