

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: P949381

Luminaire Tested: **GALN-SB4A-927-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949381
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-927-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 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: 8363 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

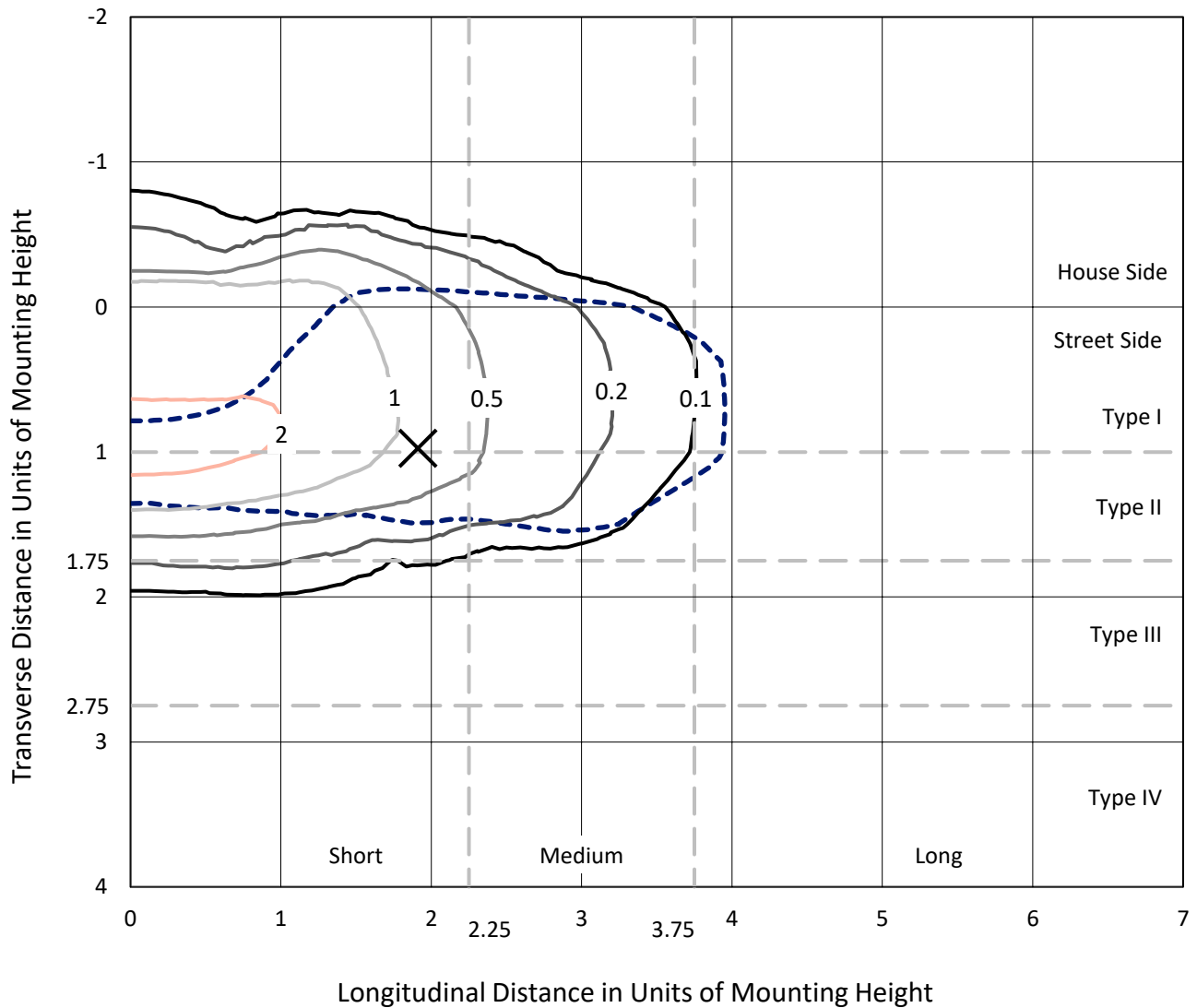
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

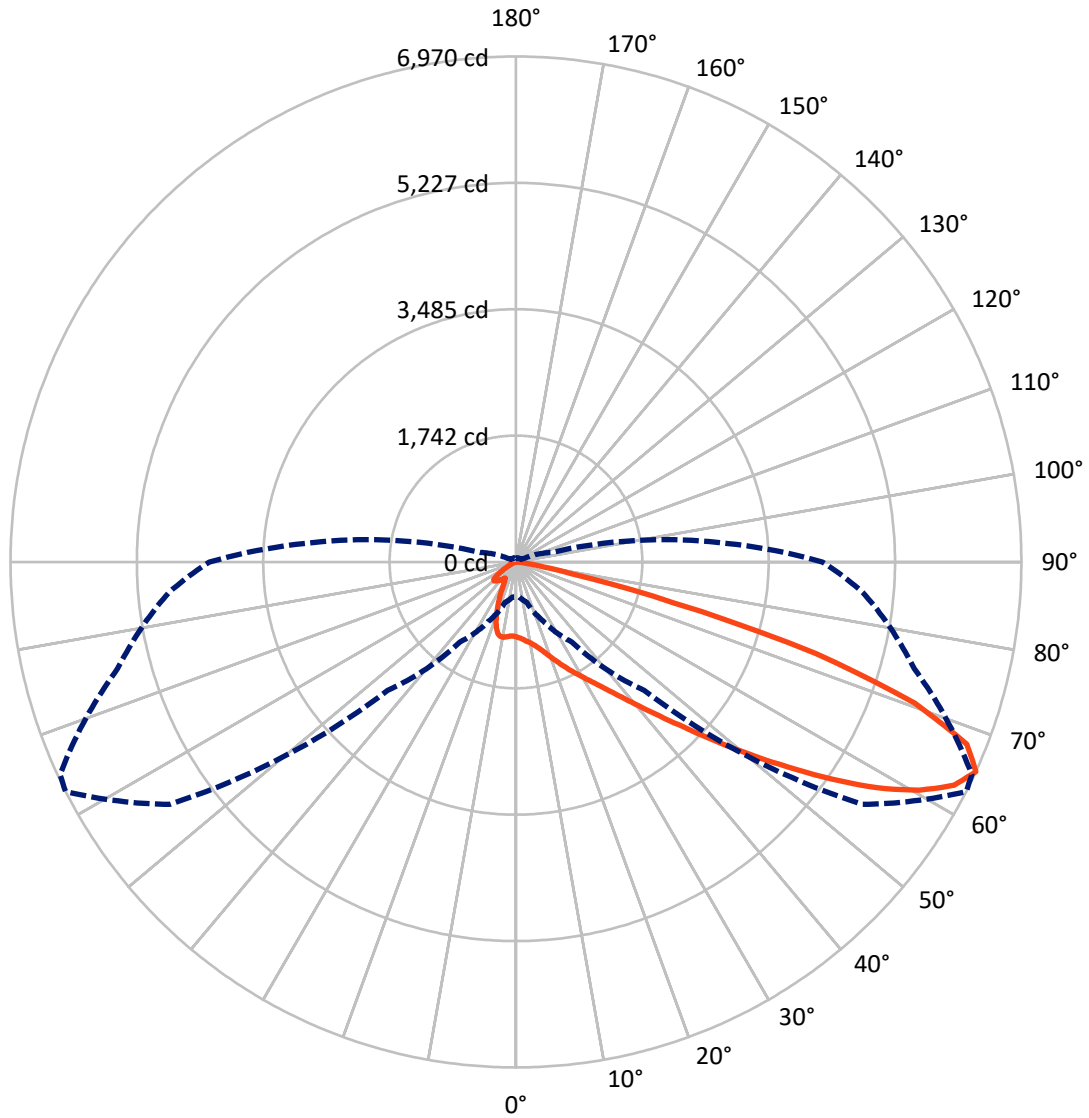
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1229.3	0.0	1229.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	7133.7	0.0	7133.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	8363.0	0.0	8363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	1.2
10°-20°	269.8	3.2
20°-30°	469.8	5.6
30°-40°	846.8	10.1
40°-50°	1679.5	20.1
50°-60°	2287.8	27.4
60°-70°	1826.1	21.8
70°-80°	826.4	9.9
80°-90°	59.4	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°	8363.0	100.0
0°-180°	8363.0	100.0

Coefficient of Utilization



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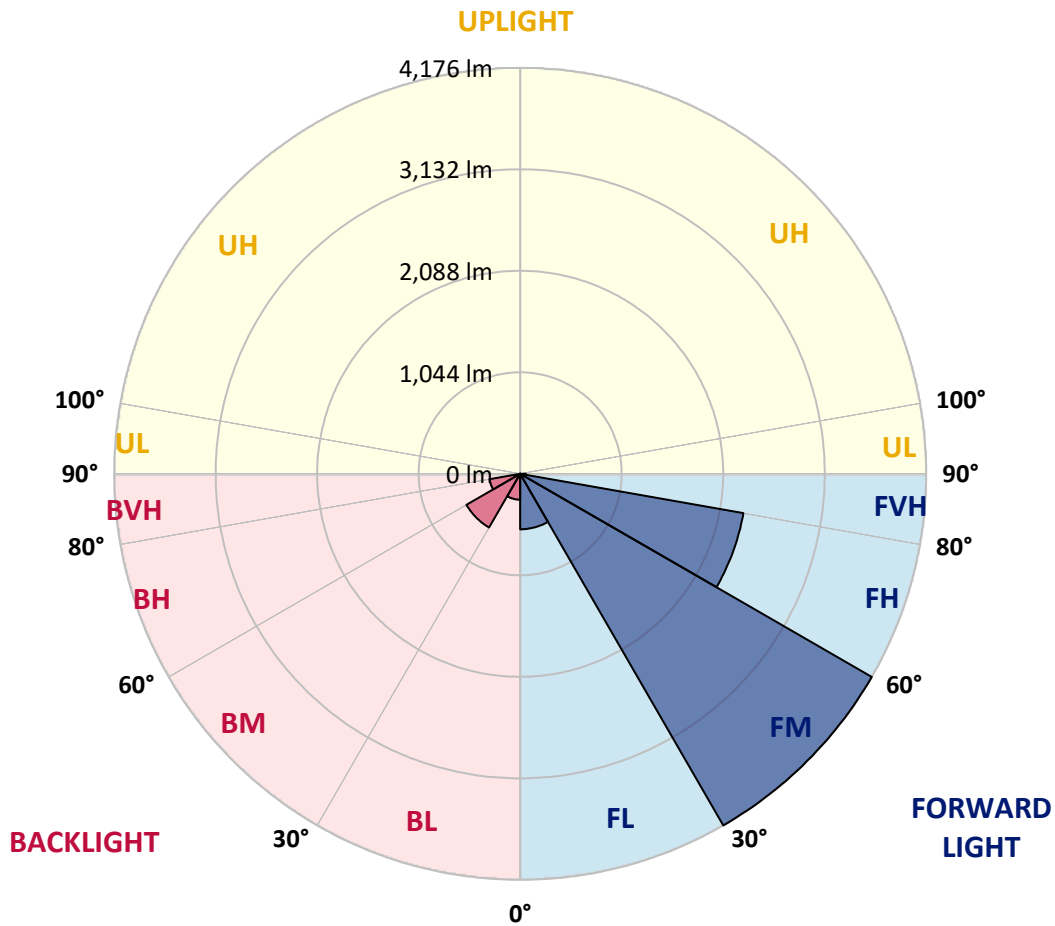
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	570.9	6.8			
FM (30°-60°)	4176.3	49.9			
FH (60°-80°)	2331.6	27.9			G2/5000
FVH (80°-90°)	55.0	0.7			G1/100
BL (0°-30°)	266.0	3.2	B1/500		
BM (30°-60°)	637.9	7.6	B1/1000		
BH (60°-80°)	320.9	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°	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2
2.5°	1056.3	1053.4	1057.5	1055.7	1054.6	1052.3	1051.1	1050.0	1047.7	1046.0
5°	1059.2	1057.5	1061.5	1064.9	1068.4	1071.9	1073.6	1075.9	1073.6	1069.0
7.5°	1035.0	1033.9	1042.5	1052.9	1068.4	1081.6	1096.0	1104.1	1104.6	1102.9
10°	1033.3	1030.4	1039.1	1051.7	1071.9	1095.4	1120.8	1138.0	1140.3	1147.8
12.5°	1060.3	1057.5	1069.5	1083.4	1104.1	1128.8	1159.9	1184.0	1187.5	1197.8
15°	1105.8	1101.8	1115.6	1133.4	1159.9	1188.1	1220.9	1242.7	1245.6	1258.3
17.5°	1158.7	1154.7	1170.8	1189.8	1218.6	1257.1	1295.1	1319.2	1322.7	1330.8
20°	1226.6	1221.4	1234.1	1251.4	1281.8	1327.9	1373.3	1407.8	1407.3	1407.3
22.5°	1305.4	1297.4	1308.3	1322.1	1350.9	1406.7	1467.1	1508.0	1508.0	1491.8
25°	1390.0	1382.0	1394.0	1406.7	1432.0	1495.3	1566.1	1616.7	1619.0	1591.4
27.5°	1495.9	1485.5	1494.7	1509.7	1524.6	1589.1	1673.1	1731.8	1732.9	1690.3
30°	1699.5	1670.2	1641.4	1625.3	1632.2	1696.1	1785.8	1850.9	1856.6	1797.9
32.5°	2072.4	2066.6	1965.3	1833.0	1764.0	1811.2	1911.8	1990.1	1993.5	1918.2
35°	2651.7	2644.8	2482.0	2230.0	2005.0	1965.3	2064.9	2157.5	2155.2	2070.1
37.5°	3343.3	3336.9	3122.3	2785.2	2421.0	2198.4	2262.2	2359.5	2373.8	2262.2
40°	3934.1	3910.6	3774.8	3449.7	2973.3	2585.0	2543.0	2607.4	2622.4	2490.1
42.5°	4381.8	4361.6	4292.6	4089.5	3641.9	3156.9	2873.8	2898.5	2915.2	2756.4
45°	4613.6	4609.0	4636.6	4617.6	4323.1	3858.8	3346.7	3243.7	3250.1	3051.6
47.5°	4646.4	4644.1	4770.1	4948.5	4908.8	4650.4	3953.7	3674.1	3651.7	3384.7
50°	4453.1	4448.5	4690.1	5024.4	5300.0	5315.5	4643.0	4159.1	4109.6	3729.3
52.5°	3835.8	3834.6	4231.6	4787.9	5437.5	5897.8	5324.2	4691.9	4609.0	4094.1
55°	2951.5	2972.8	3427.8	4085.5	5186.7	6178.0	5935.7	5283.3	5156.2	4461.2
57.5°	2090.8	2121.8	2571.8	3157.4	4408.8	6012.3	6349.4	5875.9	5739.0	4827.1
60°	1123.1	1150.7	1601.2	2300.2	3280.0	5394.3	6567.5	6390.3	6260.8	5174.6
62.5°	669.1	678.3	864.7	1484.9	2218.5	4121.1	6474.8	6782.1	6675.6	5466.3
65°	480.4	482.1	575.9	906.7	1346.9	2503.9	5825.3	6969.6	6936.8	5686.0
67.5°	404.5	403.3	442.4	602.4	917.7	1254.2	4464.6	6704.4	6843.6	5825.3
70°	346.9	348.7	394.7	441.3	689.8	710.0	2219.6	5837.4	6134.2	5862.1
72.5°	258.3	264.1	306.7	402.2	520.7	488.5	766.3	4328.3	4865.0	5523.2
75°	182.4	185.3	215.8	338.3	388.4	355.6	391.2	2237.5	2925.6	4234.5
77.5°	140.4	145.6	163.4	236.5	382.6	249.7	239.3	774.4	1189.8	2557.9
80°	75.9	85.1	117.9	170.9	268.7	176.6	118.5	308.4	403.3	1196.1
82.5°	39.1	43.7	82.3	123.1	153.0	154.2	58.7	128.3	166.3	369.4
85°	15.5	19.0	55.2	67.9	78.8	75.9	26.5	51.8	59.8	102.4
87.5°	3.5	5.8	20.1	15.5	15.0	16.1	6.3	12.1	11.5	12.1
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°
1032.2	0°	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2
1039.1	2.5°	1038.5	1036.2	1029.9	1022.9	1014.9	1010.3	1007.4	1006.8	1002.8	999.9
1062.1	5°	1055.7	1053.4	1041.4	1027.0	1011.4	999.4	987.9	977.5	962.5	959.7
1095.4	7.5°	1090.3	1083.9	1064.4	1044.8	1015.5	980.4	937.8	888.9	845.2	831.9
1139.7	10°	1132.8	1124.2	1099.5	1064.9	999.9	904.4	801.4	705.9	630.0	608.7
1192.1	12.5°	1181.2	1173.7	1140.9	1077.0	934.9	761.7	604.1	485.6	411.9	393.5
1247.9	15°	1238.7	1227.8	1182.3	1058.6	818.7	578.8	414.8	344.6	318.2	314.7
1311.8	17.5°	1299.7	1281.8	1219.1	992.5	662.2	411.4	320.5	300.3	288.8	285.4
1376.2	20°	1355.5	1332.5	1241.0	892.3	494.8	320.5	287.1	273.9	263.5	259.5
1440.6	22.5°	1411.3	1378.5	1241.0	756.0	371.1	284.2	263.5	251.4	239.3	234.2
1509.7	25°	1469.4	1425.7	1219.1	604.1	298.6	260.6	241.1	227.8	217.5	211.1
1575.3	27.5°	1525.8	1465.4	1169.1	460.3	265.8	239.9	220.4	207.7	197.9	193.3
1646.6	30°	1579.3	1504.5	1098.9	349.2	244.5	219.8	201.4	190.4	180.7	176.1
1739.2	32.5°	1651.8	1554.0	1024.1	286.5	226.1	200.8	184.1	173.8	165.1	161.7
1859.5	35°	1752.5	1627.0	959.7	281.3	210.6	185.3	168.6	158.8	150.2	147.3
2014.8	37.5°	1895.2	1745.0	925.7	315.9	197.9	171.5	155.9	145.6	137.5	135.2
2212.2	40°	2071.2	1904.9	944.1	350.4	189.3	159.4	144.4	134.1	127.1	124.3
2438.8	42.5°	2280.1	2102.3	1046.0	376.8	183.5	149.0	133.5	122.0	117.4	116.2
2696.0	45°	2520.0	2319.2	1201.9	405.0	174.3	139.2	122.5	113.9	110.5	109.9
2975.6	47.5°	2792.7	2557.4	1382.5	440.1	165.1	130.0	113.9	108.2	105.3	104.1
3267.3	50°	3063.1	2797.3	1568.4	459.7	157.6	121.4	107.0	102.4	100.1	99.5
3575.7	52.5°	3346.2	3044.1	1718.5	441.3	151.3	114.5	101.3	97.8	95.5	94.9
3859.9	55°	3616.0	3243.7	1744.4	374.5	138.7	107.6	94.9	93.2	90.3	90.3
4148.2	57.5°	3848.4	3343.9	1561.5	275.0	126.0	97.2	88.6	86.9	84.6	84.0
4408.2	60°	4061.9	3315.1	1205.3	185.3	112.2	86.9	80.5	79.4	77.1	74.2
4634.3	62.5°	4182.1	3188.5	824.5	120.8	98.4	75.9	71.3	70.8	65.6	59.8
4801.8	65°	4227.6	2928.5	514.4	88.0	82.3	65.0	61.6	60.4	52.9	46.6
4896.7	67.5°	4187.9	2500.4	259.5	69.6	65.0	54.1	50.6	50.6	45.5	39.7
4890.9	70°	4029.1	1874.4	109.3	55.8	50.1	41.4	41.4	43.7	38.5	32.2
4637.2	72.5°	3684.4	1261.1	58.1	42.6	37.4	29.3	33.9	35.7	30.5	24.2
3795.5	75°	2929.0	769.2	40.3	31.6	23.6	20.7	25.9	27.0	20.7	16.1
2602.2	77.5°	2003.3	441.9	27.0	20.1	15.0	12.1	17.8	16.7	10.9	7.5
1003.4	80°	879.7	184.1	15.5	9.2	5.8	4.6	6.3	4.6	3.5	2.3
137.5	82.5°	103.0	43.2	5.8	3.5	2.3	1.2	0.6	0.0	0.0	0.0
42.0	85°	21.3	5.2	2.9	1.2	0.6	0.0	0.0	0.0	0.0	0.0
7.5	87.5°	4.0	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>
1032.2
1002.8
958.5
825.6
600.7
388.4
311.3
283.6
257.2
231.3
208.8
193.3
176.6
161.7
147.3
134.6
123.7
116.2
109.3
104.1
99.5
94.9
89.8
83.4
73.6
58.7
46.0
39.1
31.6
24.2
15.5
8.1
2.3
0.0
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