

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: P940916

Luminaire Tested: **GALN-SB4A-950-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-950-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9808 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

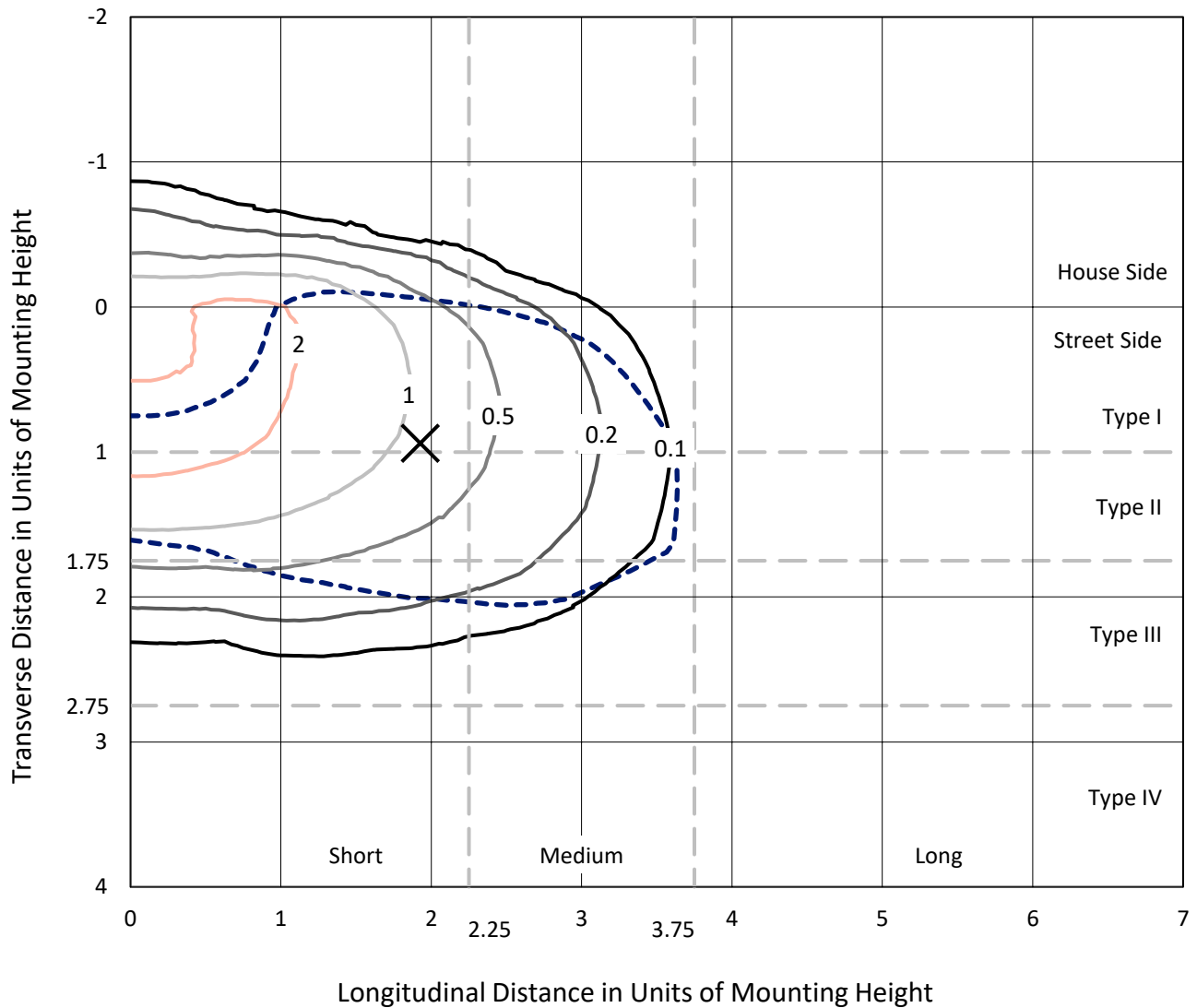
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

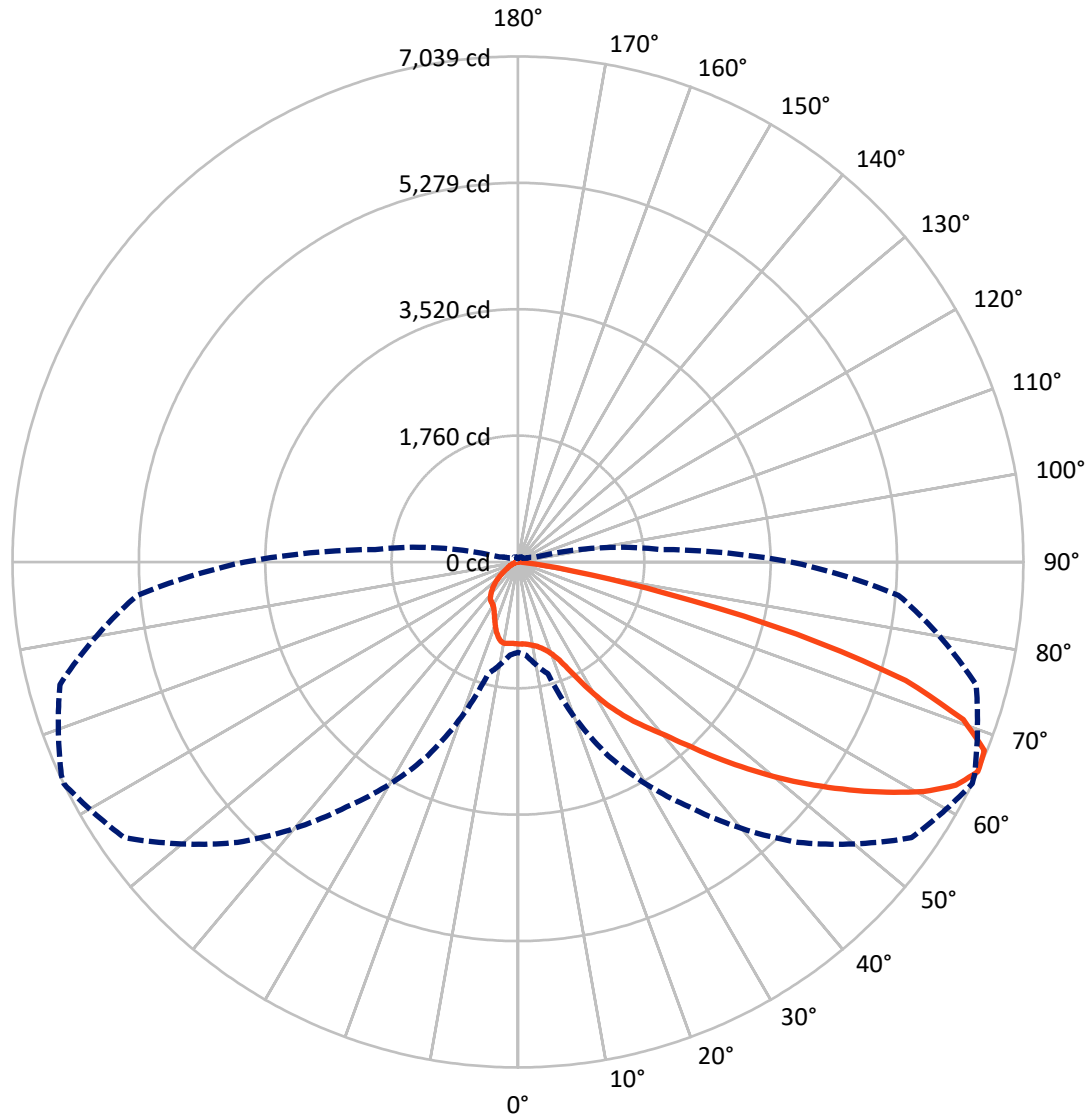
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1311.6	0.0	1311.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	8496.4	0.0	8496.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	9808.0	0.0	9808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	1.1
10°-20°	285.5	2.9
20°-30°	540.9	5.5
30°-40°	1094.6	11.2
40°-50°	1864.6	19.0
50°-60°	2535.7	25.9
60°-70°	2381.2	24.3
70°-80°	954.0	9.7
80°-90°	46.2	0.5
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°	9808.0	100.0
0°-180°	9808.0	100.0

Coefficient of Utilization



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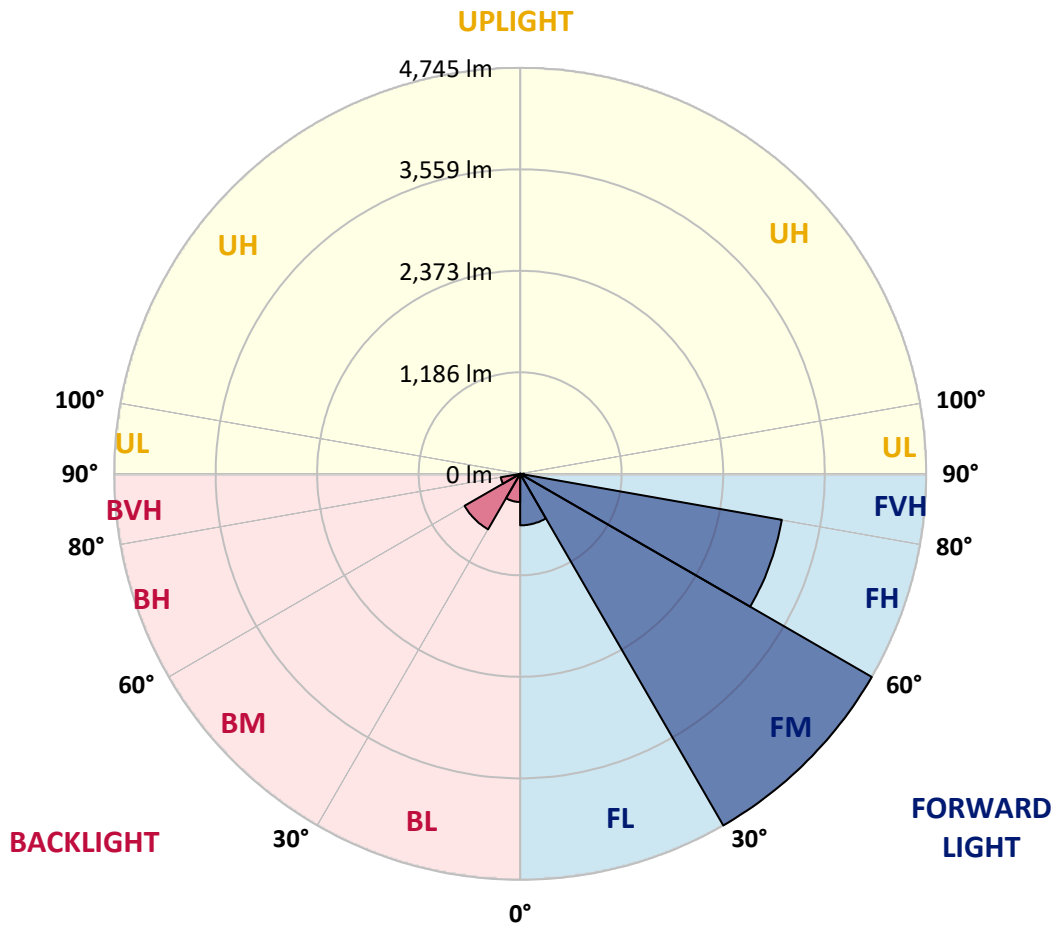
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	602.3	6.1			
FM (30°-60°)	4745.1	48.4			
FH (60°-80°)	3105.0	31.7			G2/5000
FVH (80°-90°)	44.0	0.4			G1/100
BL (0°-30°)	329.3	3.4	B1/500		
BM (30°-60°)	749.8	7.6	B1/1000		
BH (60°-80°)	230.2	2.3	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8
2.5°	1136.8	1144.7	1142.7	1140.8	1140.1	1141.4	1142.1	1141.4	1141.4	1141.4
5°	1115.1	1121.7	1121.7	1126.3	1132.9	1140.8	1146.7	1148.0	1149.3	1151.3
7.5°	1073.7	1079.0	1082.9	1098.0	1114.5	1135.5	1153.3	1162.5	1163.8	1171.0
10°	1045.4	1052.0	1058.6	1074.4	1098.0	1129.6	1159.8	1182.2	1185.5	1202.6
12.5°	1044.1	1050.7	1059.2	1076.3	1104.0	1137.5	1174.3	1206.5	1212.4	1237.4
15°	1057.9	1065.8	1073.7	1094.7	1124.3	1165.1	1204.6	1244.7	1250.6	1286.1
17.5°	1086.2	1096.7	1102.6	1123.7	1155.2	1200.6	1252.5	1298.6	1303.8	1345.3
20°	1142.1	1154.6	1156.6	1173.6	1204.6	1253.2	1315.0	1372.2	1378.8	1426.1
22.5°	1257.8	1275.6	1259.8	1268.3	1295.9	1344.6	1411.7	1484.0	1493.2	1547.1
25°	1461.6	1486.6	1445.9	1431.4	1443.2	1493.9	1578.0	1669.4	1679.9	1723.3
27.5°	1862.1	1829.8	1768.0	1707.5	1672.0	1701.0	1795.6	1908.7	1921.9	1964.0
30°	2301.9	2273.7	2190.2	2056.0	1971.9	1967.3	2054.7	2180.9	2196.1	2236.2
32.5°	2742.5	2715.5	2624.8	2459.7	2313.8	2241.4	2301.9	2442.0	2449.9	2475.5
35°	3175.8	3148.1	3057.4	2888.4	2708.9	2544.5	2532.7	2690.5	2693.1	2720.1
37.5°	3611.7	3588.7	3492.0	3326.3	3149.5	2922.6	2812.8	2925.9	2929.2	2955.5
40°	3922.7	3932.5	3866.1	3737.9	3586.0	3338.2	3127.1	3176.4	3156.7	3200.7
42.5°	4189.6	4209.4	4151.5	4087.1	3998.9	3780.7	3516.3	3507.8	3476.2	3499.9
45°	4420.4	4436.8	4384.9	4369.8	4367.8	4214.6	3941.7	3890.5	3846.4	3841.8
47.5°	4505.2	4536.8	4559.1	4609.8	4708.4	4644.0	4381.6	4302.1	4252.7	4216.6
50°	4537.4	4571.0	4647.2	4794.5	5027.9	5055.6	4819.5	4730.1	4669.6	4603.9
52.5°	4494.1	4553.9	4656.5	4904.3	5242.9	5385.6	5239.7	5161.4	5092.4	4985.2
55°	4238.3	4298.1	4507.9	4903.0	5350.1	5617.1	5636.8	5601.9	5524.4	5355.4
57.5°	3699.1	3787.9	4119.9	4736.0	5348.2	5816.3	6026.0	6051.0	5964.2	5722.3
60°	2952.2	3072.5	3477.5	4365.8	5183.1	5924.1	6367.3	6492.2	6400.2	6083.9
62.5°	2060.0	2199.4	2582.7	3785.9	4805.7	5846.5	6616.5	6847.3	6777.6	6407.4
65°	1256.5	1301.2	1610.2	2979.2	4164.0	5521.7	6693.4	7039.3	7016.2	6605.3
67.5°	837.0	874.5	963.2	2042.9	3232.3	4872.8	6509.3	7005.7	7012.3	6573.1
70°	504.3	536.5	594.4	1188.1	2094.8	3856.9	5939.2	6578.3	6616.5	6142.4
72.5°	207.8	229.5	282.1	538.5	1084.9	2447.9	4729.4	5648.0	5736.7	5164.7
75°	117.7	128.9	165.7	270.2	470.8	1140.8	2864.8	4009.5	4140.3	3559.7
77.5°	78.2	83.5	107.2	174.9	265.0	389.2	1224.3	2088.9	2338.7	1944.2
80°	52.6	57.2	73.6	117.0	172.3	167.0	389.9	773.9	952.1	668.0
82.5°	35.5	36.2	52.6	76.9	109.1	80.9	115.1	240.6	302.5	193.3
85°	20.4	19.7	38.8	44.7	48.7	33.5	34.8	72.3	94.7	81.5
87.5°	2.6	3.9	15.1	11.8	6.6	7.2	7.2	12.5	18.4	19.7
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°
1140.8	0°	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8
1142.1	2.5°	1142.1	1141.4	1139.5	1137.5	1132.9	1130.3	1131.6	1130.3	1129.6	1130.3
1150.6	5°	1150.6	1148.7	1143.4	1136.8	1127.6	1116.4	1109.2	1098.7	1088.8	1082.9
1173.6	7.5°	1173.6	1171.7	1164.4	1146.0	1116.4	1069.8	1027.0	989.5	961.3	944.8
1210.5	10°	1210.5	1207.2	1196.0	1155.2	1077.7	975.7	890.9	820.6	774.5	752.8
1253.9	12.5°	1253.9	1249.9	1230.2	1146.7	1004.0	844.9	727.9	649.6	606.9	587.8
1303.8	15°	1305.1	1299.9	1261.1	1105.9	896.8	700.2	593.1	534.6	506.9	489.8
1367.6	17.5°	1368.9	1359.7	1284.1	1044.8	780.5	589.8	510.2	466.2	441.8	425.4
1451.1	20°	1451.8	1436.6	1302.5	971.8	673.3	520.1	454.3	417.5	399.1	384.6
1569.5	22.5°	1567.5	1545.8	1324.9	892.9	597.7	472.1	412.9	386.0	370.8	354.4
1734.5	25°	1710.8	1685.2	1352.5	819.9	545.7	430.7	382.7	360.3	342.6	323.5
1950.8	27.5°	1911.4	1865.3	1385.4	760.1	501.0	395.2	355.1	330.1	309.7	293.9
2196.1	30°	2134.9	2059.3	1414.3	723.9	460.3	362.3	318.9	293.9	274.8	263.7
2416.3	32.5°	2346.6	2244.1	1433.4	708.1	423.4	324.8	279.4	252.5	238.0	234.7
2632.0	35°	2546.5	2411.1	1431.4	693.0	390.6	287.3	240.6	213.0	201.9	203.8
2864.1	37.5°	2776.6	2589.3	1417.6	669.3	363.6	253.1	207.1	182.8	172.9	173.6
3146.2	40°	3044.3	2795.1	1409.0	624.6	334.0	221.6	179.5	159.8	152.5	149.9
3443.4	42.5°	3329.6	2994.3	1410.3	574.0	297.2	193.3	160.4	144.0	137.4	135.4
3774.1	45°	3616.3	3184.3	1412.3	521.4	258.4	171.6	146.6	132.8	128.9	126.2
4109.4	47.5°	3885.9	3346.0	1375.5	464.9	220.3	155.2	135.4	126.2	123.0	119.7
4446.1	50°	4137.0	3453.9	1286.7	399.1	190.0	142.0	126.9	120.3	117.0	113.7
4751.1	52.5°	4332.3	3471.0	1140.1	331.4	169.0	132.2	121.6	115.7	111.8	108.5
4997.7	55°	4419.1	3363.8	931.7	268.3	152.5	123.6	116.4	110.5	105.9	102.6
5191.7	57.5°	4396.7	3138.3	726.5	215.7	136.8	115.1	109.8	105.9	100.6	95.3
5348.8	60°	4286.9	2836.5	547.7	179.5	122.3	105.9	102.6	99.3	92.1	84.2
5409.3	62.5°	4096.9	2457.1	390.6	148.6	106.5	95.3	94.0	91.4	80.9	66.4
5319.9	65°	3806.3	1996.2	263.0	123.6	91.4	83.5	84.2	79.6	65.8	49.3
4992.4	67.5°	3381.6	1459.7	168.3	101.3	76.3	69.7	70.4	67.7	55.9	42.1
4371.8	70°	2840.4	966.5	109.8	76.9	61.1	53.9	57.9	58.5	47.3	34.2
3355.3	72.5°	2082.3	570.7	76.9	57.2	44.7	37.5	47.3	48.7	38.1	25.6
2018.5	75°	1186.8	270.9	57.9	41.4	27.6	26.3	36.8	36.8	26.3	17.1
873.8	77.5°	498.4	113.1	40.8	27.0	15.8	15.1	25.0	23.0	13.2	7.9
213.0	80°	144.0	50.6	21.7	13.2	6.6	5.9	9.9	7.2	3.3	1.3
80.9	82.5°	56.5	22.4	8.5	5.3	2.6	2.6	1.3	0.0	0.0	0.0
46.0	85°	33.5	9.2	3.9	2.0	0.7	0.0	0.0	0.0	0.0	0.0
9.9	87.5°	8.5	2.0	1.3	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>
1140.8
1132.9
1084.2
945.5
750.9
585.8
490.5
424.1
382.0
351.8
321.5
290.6
261.7
236.7
203.8
176.2
149.3
134.8
126.2
119.7
113.7
107.8
101.9
94.7
82.8
65.1
48.0
40.1
32.9
24.3
15.8
7.9
1.3
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