

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: P946340

Luminaire Tested: **GALN-SB2A-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6910 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

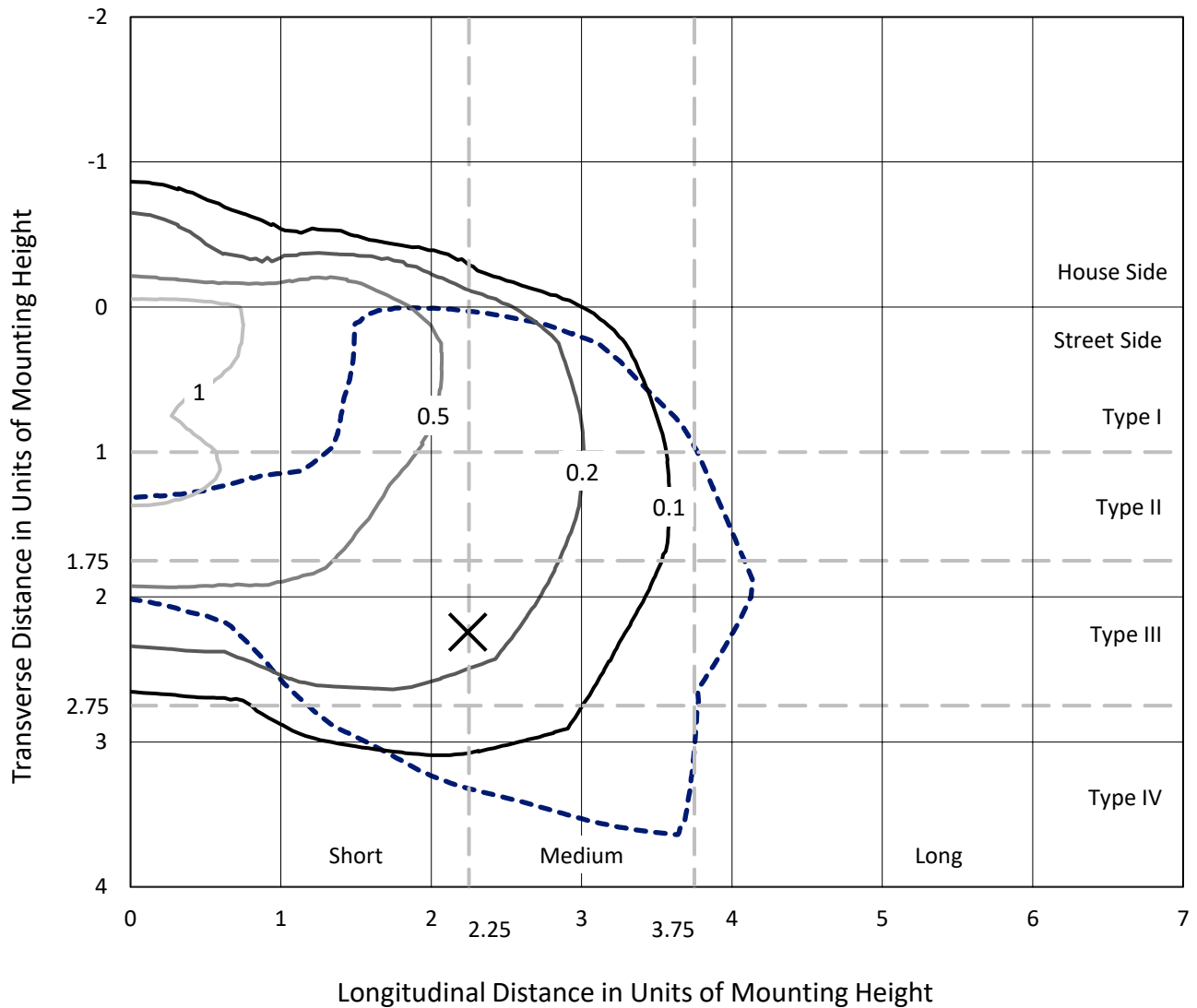
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

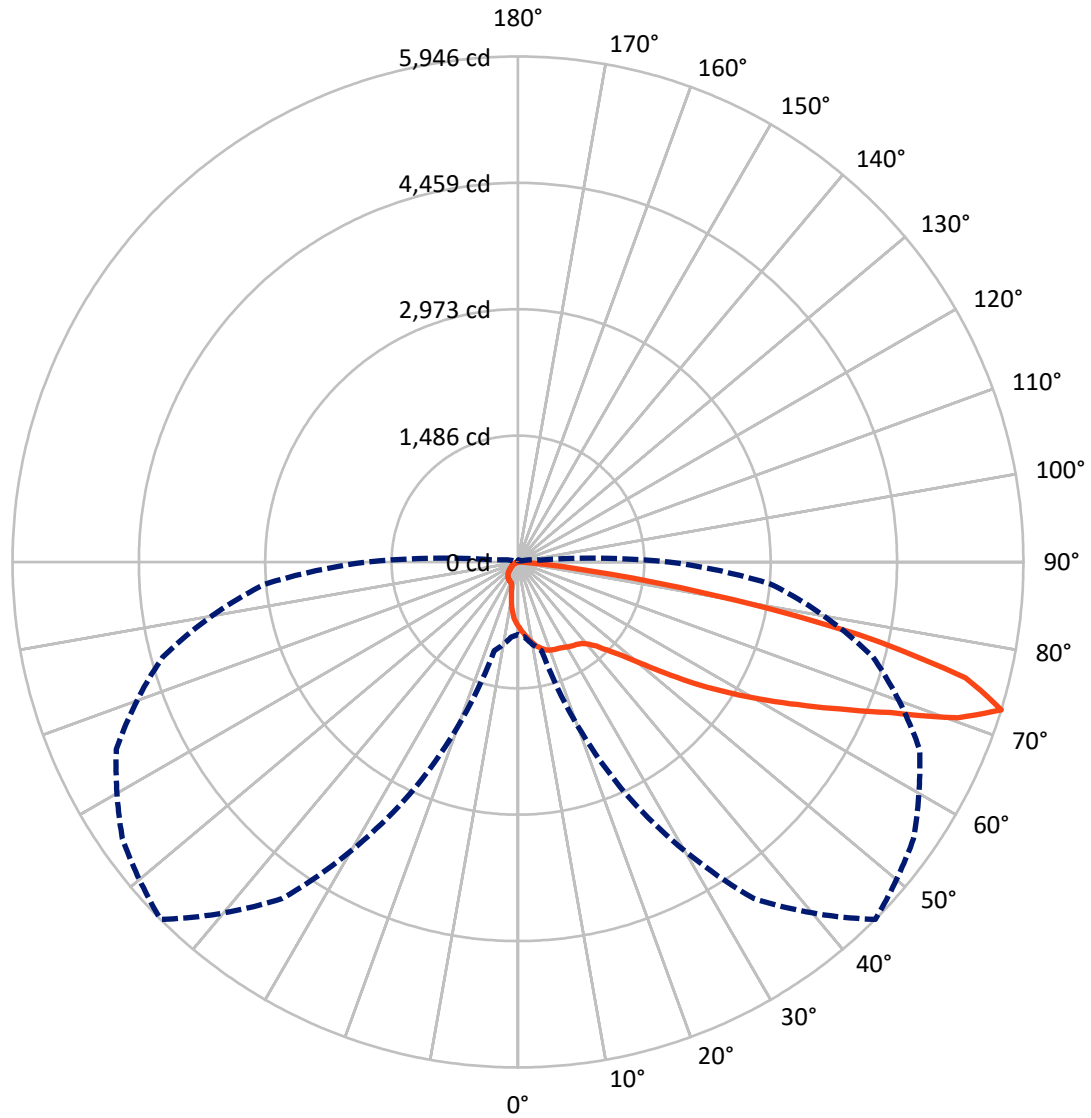
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	726.0	0.0	726.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6183.9	0.0	6183.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	6910.0	0.0	6910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	1.0
10°-20°	208.5	3.0
20°-30°	342.3	5.0
30°-40°	485.5	7.0
40°-50°	802.4	11.6
50°-60°	1441.5	20.9
60°-70°	2001.6	29.0
70°-80°	1451.9	21.0
80°-90°	105.0	1.5
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°	6910.0	100.0
0°-180°	6910.0	100.0

Coefficient of Utilization



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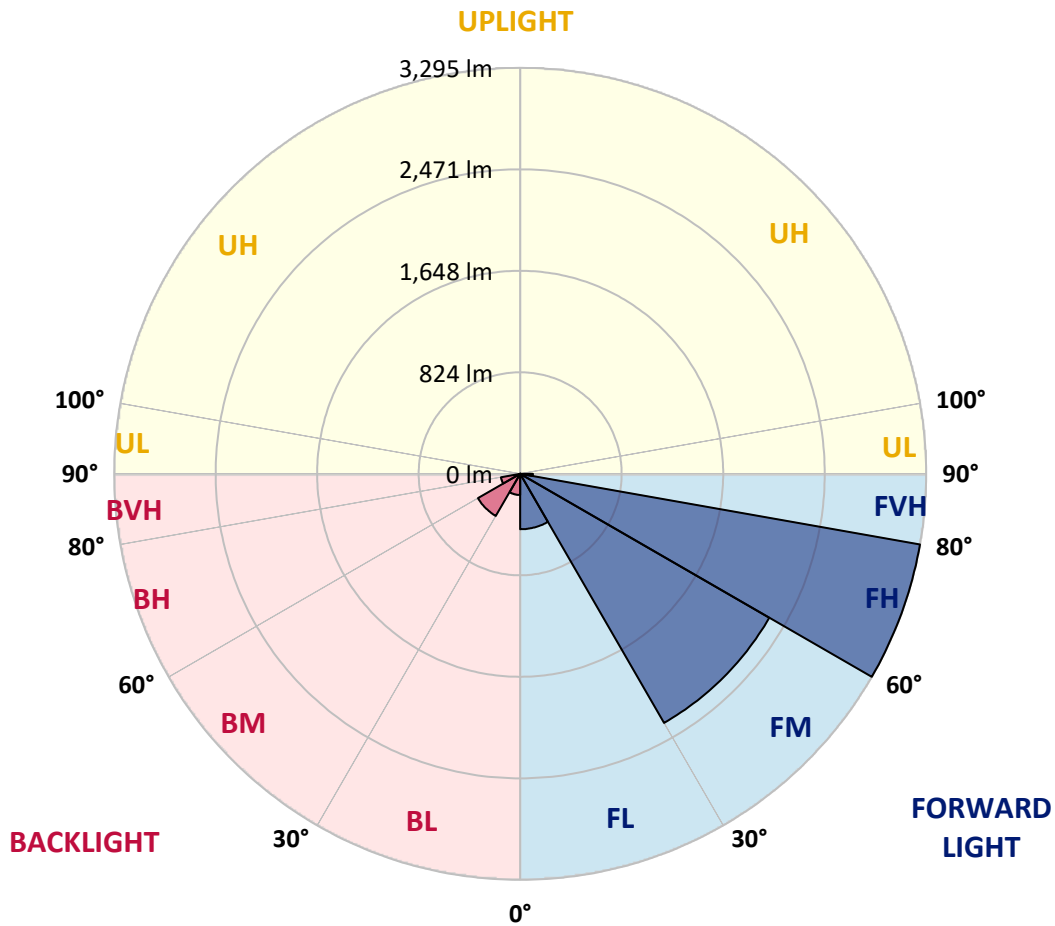
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.1	6.5			
FM (30°-60°)	2334.6	33.8			
FH (60°-80°)	3295.2	47.7			G2/5000
FVH (80°-90°)	104.1	1.5			G2/225
BL (0°-30°)	172.0	2.5	B1/500		
BM (30°-60°)	394.9	5.7	B1/1000		
BH (60°-80°)	158.3	2.3	B1/500		G1/500
BVH (80°-90°)	0.9	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0
2.5°	826.8	828.2	827.3	821.6	812.2	807.0	804.2	794.7	788.6	777.8
5°	902.7	908.4	905.1	893.8	875.9	863.1	859.4	840.0	822.6	802.3
7.5°	983.4	986.2	980.1	965.5	941.4	919.7	916.4	889.5	861.7	830.6
10°	1053.2	1056.5	1047.1	1025.8	998.5	971.6	966.9	937.2	904.2	866.0
12.5°	1111.7	1115.0	1102.7	1077.3	1047.1	1019.2	1014.5	983.4	947.1	904.6
15°	1156.0	1162.2	1145.6	1118.3	1085.7	1057.9	1055.6	1024.9	989.5	942.4
17.5°	1182.0	1188.1	1172.5	1139.5	1111.7	1088.1	1085.3	1059.8	1026.8	981.5
20°	1186.2	1191.9	1175.4	1146.6	1123.5	1104.6	1103.2	1084.8	1060.8	1017.4
22.5°	1173.5	1180.6	1165.5	1142.3	1126.3	1116.4	1114.5	1104.1	1090.5	1053.7
25°	1160.3	1165.9	1154.6	1134.3	1125.8	1124.9	1126.3	1124.4	1121.6	1090.5
27.5°	1159.3	1165.5	1152.7	1133.4	1128.7	1138.6	1140.0	1148.9	1151.3	1124.0
30°	1167.3	1171.6	1159.3	1139.0	1136.7	1159.3	1159.8	1175.8	1179.6	1152.3
32.5°	1184.8	1189.5	1177.2	1147.5	1144.2	1175.8	1177.2	1198.5	1204.6	1182.4
35°	1225.8	1231.5	1217.3	1171.1	1159.3	1191.4	1195.6	1220.6	1232.9	1214.5
37.5°	1328.2	1311.7	1292.3	1218.8	1193.8	1215.9	1223.0	1252.2	1273.9	1252.7
40°	1582.4	1530.5	1470.1	1299.9	1254.1	1268.3	1273.9	1303.2	1332.9	1312.1
42.5°	1964.0	1902.7	1805.5	1486.7	1345.2	1352.2	1356.5	1381.9	1423.9	1407.4
45°	2304.0	2281.9	2182.8	1805.5	1515.4	1480.5	1485.7	1498.9	1560.7	1554.6
47.5°	2565.3	2552.6	2476.2	2171.5	1803.1	1637.6	1652.2	1658.3	1747.5	1769.2
50°	2766.3	2761.5	2693.1	2496.9	2179.0	1869.2	1874.4	1861.1	1994.6	2048.4
52.5°	2955.9	2971.9	2921.4	2799.3	2580.4	2172.4	2171.5	2109.2	2289.4	2370.5
55°	3127.1	3132.7	3137.9	3107.7	2984.2	2517.7	2508.7	2406.9	2631.4	2715.3
57.5°	3287.9	3290.3	3336.5	3398.3	3404.4	2888.4	2871.9	2749.7	3004.9	3064.8
60°	3395.9	3406.8	3504.4	3676.1	3751.1	3270.9	3262.0	3137.4	3385.1	3412.9
62.5°	3240.3	3306.3	3552.5	3893.0	4078.4	3694.9	3690.7	3573.7	3785.0	3762.4
65°	2622.9	2734.7	3167.6	4039.7	4399.6	4168.5	4174.6	4050.1	4195.8	4122.3
67.5°	1834.7	1952.6	2464.9	4051.5	4758.5	4724.6	4759.9	4564.7	4632.1	4467.0
70°	1268.8	1329.6	1663.1	3797.8	5038.2	5490.5	5489.6	5196.7	5066.0	4624.1
72.5°	853.2	884.8	1080.1	3012.9	4832.6	5945.7	5918.3	5679.7	5212.3	4324.6
75°	359.9	383.0	500.0	1693.2	3823.2	5439.6	5365.5	5019.3	4631.2	3405.3
77.5°	114.1	124.0	197.2	606.1	2105.9	4088.8	4010.5	3134.6	3104.0	1708.3
80°	54.2	63.2	110.8	243.4	828.7	2223.9	2213.0	1422.0	1335.3	461.3
82.5°	23.6	27.8	61.3	130.2	370.7	793.3	809.4	483.9	400.4	175.0
85°	7.5	9.9	28.3	59.9	156.6	197.2	194.8	115.1	161.3	95.3
87.5°	0.0	0.0	9.4	13.7	16.0	11.3	12.7	9.9	44.8	26.4
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°
757.0	0°	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0
766.4	2.5°	760.8	753.2	740.0	727.8	716.9	706.1	699.5	690.0	689.1	689.1
778.7	5°	766.0	753.7	730.1	705.1	676.4	649.0	621.6	595.2	586.7	580.6
798.5	7.5°	781.1	761.7	724.5	676.8	622.1	562.2	520.2	475.0	457.5	448.1
824.9	10°	802.8	776.3	719.7	636.3	547.6	466.0	406.1	357.0	338.2	330.2
853.7	12.5°	826.8	794.3	711.3	585.8	466.0	368.4	309.9	287.2	284.4	284.4
888.1	15°	855.6	816.0	696.6	526.4	380.6	291.5	270.7	271.7	274.5	276.4
921.6	17.5°	885.3	839.1	673.5	459.9	305.2	262.2	262.7	264.1	266.5	268.4
957.9	20°	917.4	862.2	642.9	389.1	261.8	253.8	255.2	256.6	258.5	259.4
991.9	22.5°	951.8	883.9	606.5	319.8	247.1	246.7	247.1	248.6	250.9	250.9
1031.5	25°	988.6	907.9	565.0	269.3	239.6	239.6	240.5	241.5	243.4	243.4
1069.7	27.5°	1026.3	930.1	521.2	242.9	233.0	232.5	232.5	233.9	234.9	235.4
1107.4	30°	1067.8	956.0	477.3	237.2	227.8	225.5	224.0	225.0	225.9	226.4
1147.1	32.5°	1110.3	981.0	438.2	239.6	222.6	218.4	213.7	212.7	212.7	214.6
1188.1	35°	1157.4	1008.4	408.0	247.6	219.8	208.0	200.5	196.2	196.7	199.5
1237.1	37.5°	1214.0	1041.4	385.8	254.7	217.9	196.2	183.9	178.8	175.5	178.8
1304.6	40°	1288.1	1090.0	369.8	260.4	215.5	182.5	166.0	157.5	151.4	153.3
1409.3	42.5°	1397.0	1166.4	363.6	260.8	210.4	166.5	147.6	136.3	127.3	127.8
1566.8	45°	1549.9	1287.1	395.2	254.7	199.0	149.0	128.3	113.2	107.5	106.1
1802.2	47.5°	1759.3	1463.1	468.4	242.0	182.5	132.1	109.4	96.7	92.4	90.1
2111.1	50°	2039.9	1689.0	549.5	227.8	166.0	116.0	93.9	85.8	83.0	80.7
2477.6	52.5°	2365.3	1918.2	616.0	213.7	149.5	101.9	84.0	79.2	76.9	75.0
2831.3	55°	2663.9	2076.2	612.2	198.6	133.5	90.6	76.9	74.0	71.2	69.3
3136.0	57.5°	2849.7	2098.4	504.7	182.1	115.1	81.6	70.3	68.4	65.1	62.7
3399.7	60°	2935.1	1972.0	353.7	160.4	96.7	73.1	63.2	62.3	58.0	54.7
3649.2	62.5°	2950.7	1737.1	235.8	133.5	80.7	65.1	56.1	54.7	49.1	43.4
3852.0	65°	2887.5	1401.3	163.2	104.2	68.9	56.6	48.1	45.3	39.1	33.5
3900.1	67.5°	2687.5	983.9	113.7	75.0	58.5	44.8	38.2	37.3	32.5	27.8
3654.8	70°	2321.0	560.8	75.9	56.1	46.2	30.7	30.2	31.1	26.4	22.6
2986.0	72.5°	1779.6	256.6	47.2	41.0	31.6	20.8	24.1	24.5	20.3	17.0
1863.0	75°	1047.5	109.9	29.7	26.4	16.0	13.7	17.5	17.9	13.7	10.8
681.1	77.5°	356.6	41.5	18.9	15.6	8.0	7.5	11.3	11.3	7.5	4.2
136.8	80°	81.1	15.6	9.4	6.1	3.8	3.3	3.8	3.3	1.9	0.5
42.0	82.5°	23.1	6.1	3.8	2.4	1.4	1.4	0.5	0.0	0.0	0.0
14.6	85°	6.6	2.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
5.2	87.5°	2.8	0.5	0.0	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>
757.0
691.4
583.4
449.5
330.2
284.4
276.4
268.4
259.9
251.9
243.8
235.8
227.3
216.0
200.9
177.8
152.3
125.9
104.2
88.7
80.2
74.5
68.4
62.3
53.8
40.6
31.6
26.4
20.8
15.1
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