

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: P946088

Luminaire Tested: **GALN-SB1D-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946088
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-SB1D-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7046 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

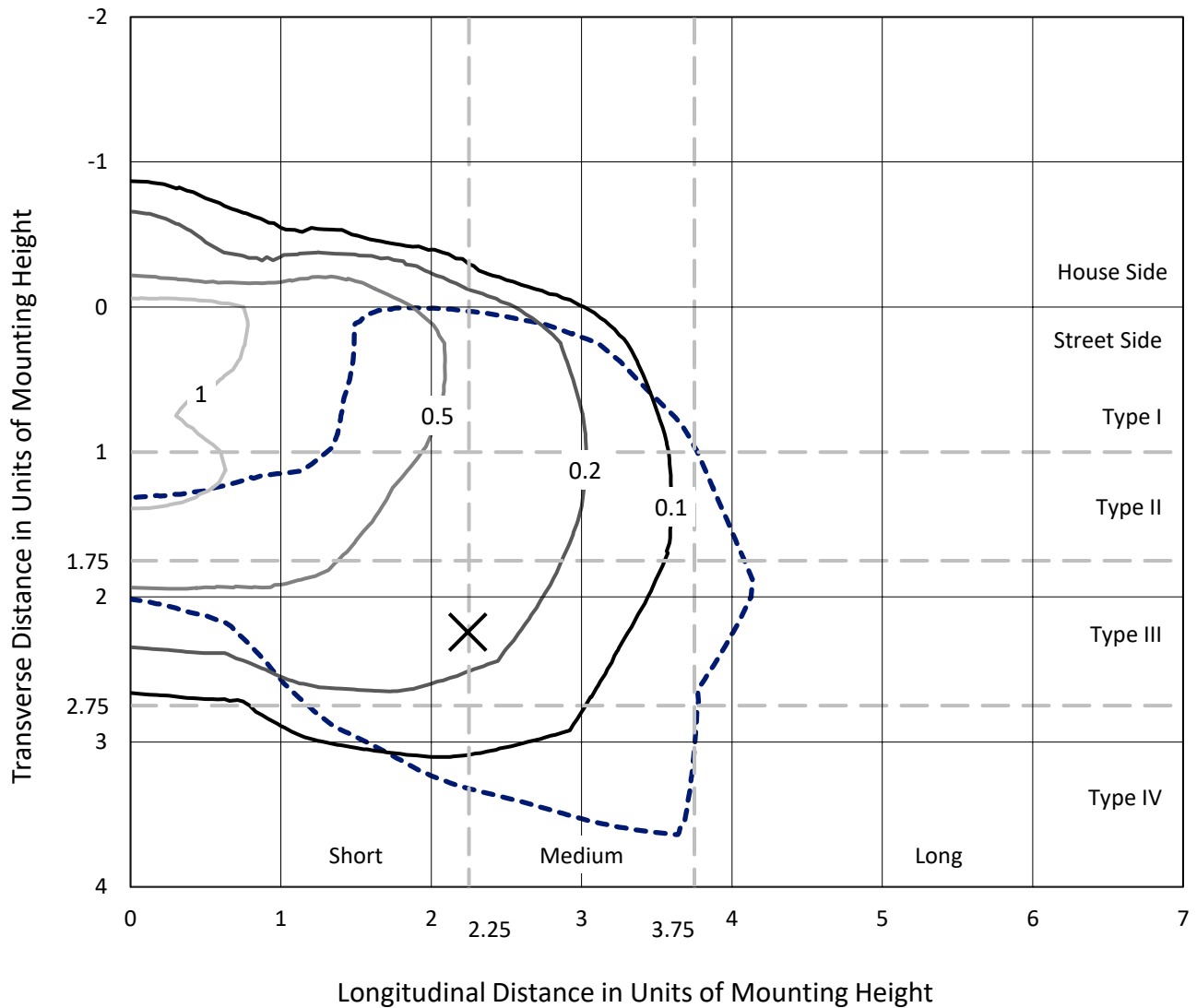
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

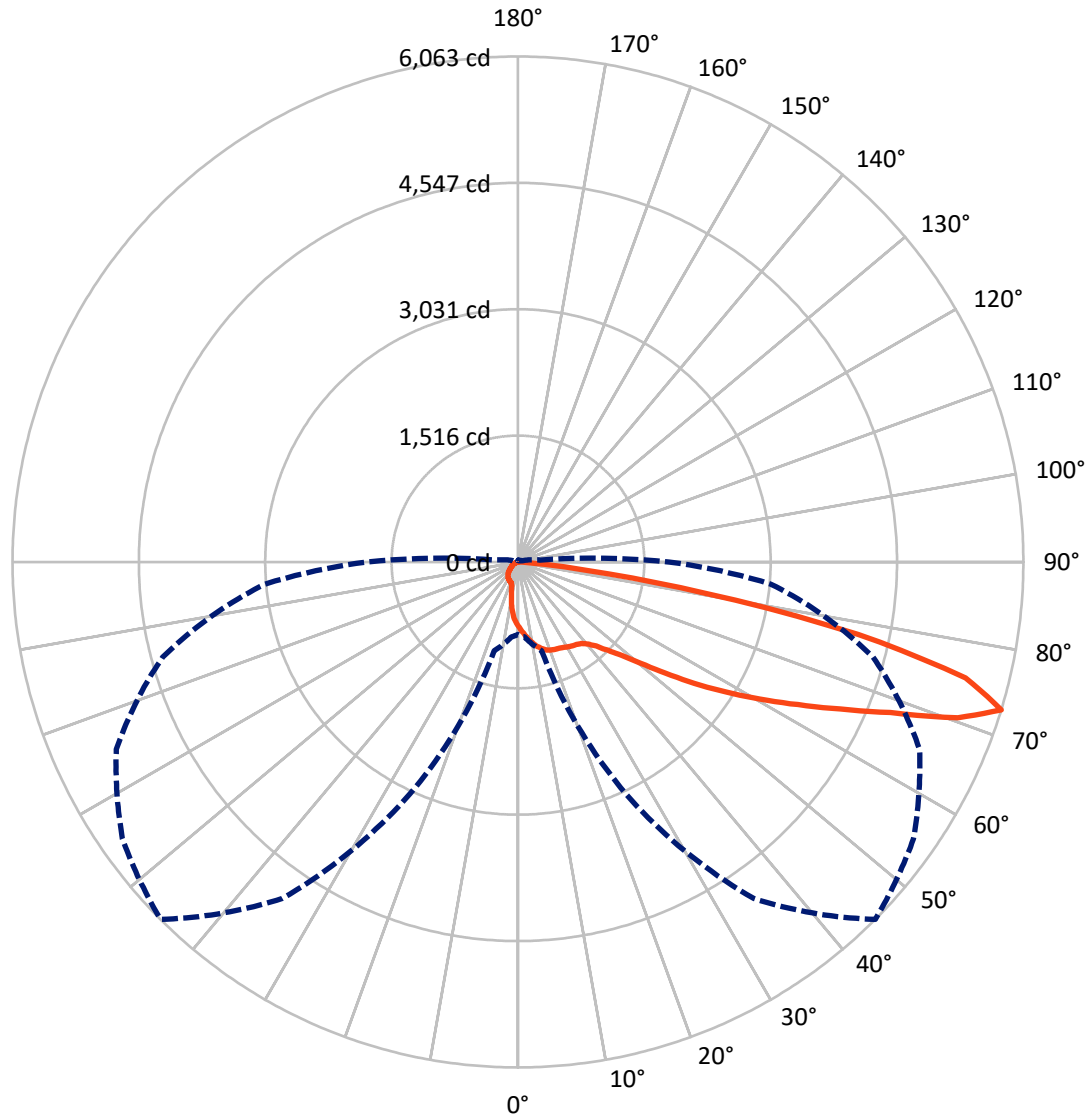
✕ Max cd
 - - - 1/2 Max cd



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	740.3	0.0	740.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6305.7	0.0	6305.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	7046.0	0.0	7046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	1.0
10°-20°	212.6	3.0
20°-30°	349.1	5.0
30°-40°	495.0	7.0
40°-50°	818.2	11.6
50°-60°	1469.9	20.9
60°-70°	2041.0	29.0
70°-80°	1480.5	21.0
80°-90°	107.0	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°	7046.0	100.0
0°-180°	7046.0	100.0

Coefficient of Utilization



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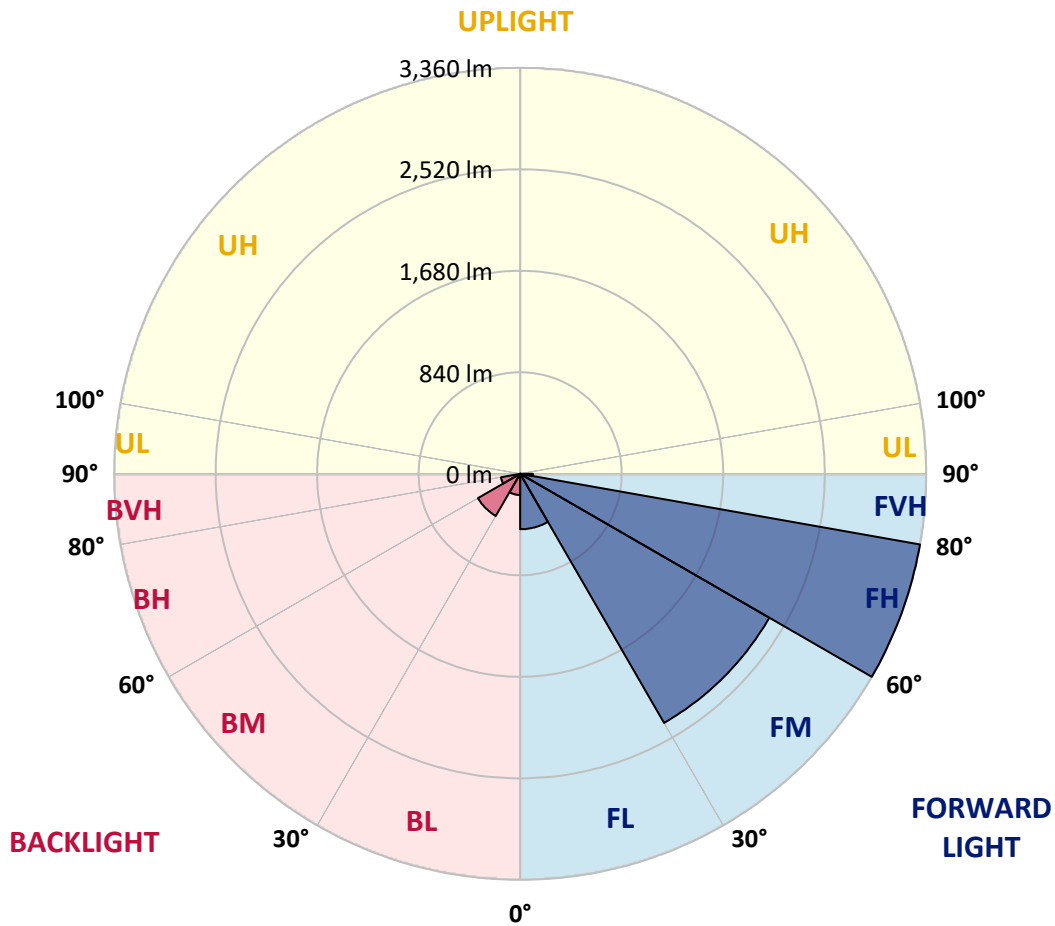
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.0	6.5			
FM (30°-60°)	2380.5	33.8			
FH (60°-80°)	3360.0	47.7			G2/5000
FVH (80°-90°)	106.1	1.5			G2/225
BL (0°-30°)	175.4	2.5	B1/500		
BM (30°-60°)	402.6	5.7	B1/1000		
BH (60°-80°)	161.4	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°	771.9	771.9	771.9	771.9	771.9	771.9	771.9	771.9	771.9	771.9
2.5°	843.1	844.5	843.6	837.8	828.2	822.9	820.0	810.4	804.1	793.1
5°	920.5	926.3	922.9	911.4	893.1	880.1	876.3	856.5	838.8	818.1
7.5°	1002.8	1005.6	999.4	984.5	960.0	937.8	934.5	907.0	878.7	846.9
10°	1073.9	1077.3	1067.7	1046.0	1018.1	990.7	985.9	955.6	922.0	883.0
12.5°	1133.6	1136.9	1124.4	1098.5	1067.7	1039.3	1034.5	1002.8	965.7	922.4
15°	1178.8	1185.0	1168.2	1140.3	1107.1	1078.7	1076.3	1045.1	1009.0	960.9
17.5°	1205.2	1211.5	1195.6	1161.9	1133.6	1109.5	1106.6	1080.7	1047.0	1000.8
20°	1209.6	1215.3	1198.5	1169.2	1145.6	1126.4	1124.9	1106.2	1081.6	1037.4
22.5°	1196.6	1203.8	1188.4	1164.8	1148.5	1138.4	1136.5	1125.9	1111.9	1074.4
25°	1183.1	1188.9	1177.3	1156.7	1148.0	1147.0	1148.5	1146.6	1143.7	1111.9
27.5°	1182.1	1188.4	1175.4	1155.7	1150.9	1161.0	1162.4	1171.6	1174.0	1146.1
30°	1190.3	1194.6	1182.1	1161.5	1159.1	1182.1	1182.6	1199.0	1202.8	1174.9
32.5°	1208.1	1212.9	1200.4	1170.1	1166.8	1199.0	1200.4	1222.1	1228.3	1205.7
35°	1250.0	1255.7	1241.3	1194.2	1182.1	1214.8	1219.2	1244.7	1257.2	1238.4
37.5°	1354.3	1337.5	1317.8	1242.7	1217.3	1239.9	1247.1	1276.9	1299.0	1277.4
40°	1613.5	1560.6	1499.1	1325.5	1278.8	1293.2	1299.0	1328.8	1359.1	1338.0
42.5°	2002.6	1940.1	1841.0	1515.9	1371.6	1378.8	1383.2	1409.1	1451.9	1435.1
45°	2349.4	2326.8	2225.8	1841.0	1545.3	1509.7	1515.0	1528.4	1591.4	1585.2
47.5°	2615.8	2602.8	2524.9	2214.2	1838.6	1669.8	1684.7	1691.0	1781.9	1804.0
50°	2820.7	2815.9	2746.2	2546.1	2221.9	1906.0	1911.2	1897.8	2033.9	2088.7
52.5°	3014.0	3030.4	2978.9	2854.4	2631.2	2215.2	2214.2	2150.8	2334.5	2417.2
55°	3188.6	3194.4	3199.7	3168.9	3042.9	2567.2	2558.1	2454.2	2683.1	2768.8
57.5°	3352.6	3355.0	3402.2	3465.2	3471.4	2945.3	2928.4	2803.9	3064.1	3125.1
60°	3462.7	3473.8	3573.4	3748.4	3824.9	3335.3	3326.2	3199.2	3451.7	3480.1
62.5°	3304.0	3371.4	3622.4	3969.7	4158.7	3767.7	3763.3	3644.1	3859.5	3836.4
65°	2674.5	2788.5	3230.0	4119.2	4486.2	4250.5	4256.8	4129.8	4278.4	4203.4
67.5°	1870.8	1991.1	2513.4	4131.3	4852.2	4817.5	4853.6	4654.5	4723.3	4555.0
70°	1293.7	1355.8	1695.8	3872.5	5137.4	5598.6	5597.6	5299.0	5165.7	4715.1
72.5°	870.0	902.2	1101.3	3072.2	4927.7	6062.7	6034.8	5791.4	5314.8	4409.7
75°	367.0	390.5	509.8	1726.6	3898.5	5546.6	5471.1	5118.1	4722.3	3472.4
77.5°	116.4	126.5	201.0	618.0	2147.4	4169.2	4089.4	3196.3	3165.0	1742.0
80°	55.3	64.4	113.0	248.2	845.0	2267.6	2256.6	1450.0	1361.5	470.4
82.5°	24.0	28.4	62.5	132.7	378.0	808.9	825.3	493.4	408.3	178.4
85°	7.7	10.1	28.9	61.1	159.7	201.0	198.6	117.3	164.5	97.1
87.5°	0.0	0.0	9.6	13.9	16.4	11.5	13.0	10.1	45.7	26.9
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°
771.9	0°	771.9	771.9	771.9	771.9	771.9	771.9	771.9	771.9	771.9	771.9
781.5	2.5°	775.8	768.1	754.6	742.1	731.0	720.0	713.2	703.6	702.6	702.6
794.0	5°	781.0	768.5	744.5	719.0	689.7	661.8	633.9	606.9	598.3	592.0
814.2	7.5°	796.4	776.7	738.7	690.1	634.4	573.3	530.5	484.3	466.5	456.9
841.2	10°	818.6	791.6	733.9	648.8	558.4	475.2	414.1	364.1	344.8	336.7
870.5	12.5°	843.1	809.9	725.3	597.3	475.2	375.6	316.0	292.9	290.0	290.0
905.6	15°	872.4	832.0	710.3	536.7	388.1	297.2	276.1	277.0	279.9	281.8
939.8	17.5°	902.7	855.6	686.8	468.9	311.2	267.4	267.9	269.3	271.7	273.7
976.8	20°	935.4	879.2	655.5	396.8	266.9	258.7	260.2	261.6	263.6	264.5
1011.4	22.5°	970.5	901.3	618.5	326.1	252.0	251.5	252.0	253.5	255.9	255.9
1051.8	25°	1008.0	925.8	576.2	274.6	244.3	244.3	245.3	246.2	248.2	248.2
1090.8	27.5°	1046.5	948.4	531.4	247.7	237.6	237.1	237.1	238.5	239.5	240.0
1129.2	30°	1088.8	974.9	486.7	241.9	232.3	229.9	228.4	229.4	230.4	230.8
1169.6	32.5°	1132.1	1000.3	446.8	244.3	227.0	222.7	217.9	216.9	216.9	218.8
1211.5	35°	1180.2	1028.2	416.0	252.5	224.1	212.1	204.4	200.1	200.6	203.4
1261.5	37.5°	1237.9	1061.9	393.4	259.7	222.2	200.1	187.6	182.3	178.9	182.3
1330.3	40°	1313.4	1111.4	377.1	265.5	219.8	186.1	169.3	160.6	154.4	156.3
1437.0	42.5°	1424.5	1189.4	370.8	266.0	214.5	169.8	150.5	139.0	129.9	130.3
1597.7	45°	1580.4	1312.5	403.0	259.7	203.0	152.0	130.8	115.4	109.7	108.2
1837.7	47.5°	1793.9	1491.9	477.6	246.7	186.1	134.7	111.6	98.6	94.3	91.9
2152.7	50°	2080.1	1722.2	560.3	232.3	169.3	118.3	95.7	87.5	84.6	82.2
2526.4	52.5°	2411.9	1956.0	628.1	217.9	152.5	103.9	85.6	80.8	78.4	76.5
2887.1	55°	2716.3	2117.1	624.3	202.5	136.1	92.3	78.4	75.5	72.6	70.7
3197.8	57.5°	2905.8	2139.7	514.6	185.6	117.3	83.2	71.7	69.7	66.4	64.0
3466.6	60°	2992.9	2010.8	360.7	163.5	98.6	74.5	64.4	63.5	59.2	55.8
3721.0	62.5°	3008.7	1771.3	240.5	136.1	82.2	66.4	57.2	55.8	50.0	44.2
3927.8	65°	2944.3	1428.9	166.4	106.3	70.2	57.7	49.1	46.2	39.9	34.1
3976.9	67.5°	2740.4	1003.2	115.9	76.5	59.6	45.7	39.0	38.0	33.2	28.4
3726.8	70°	2366.7	571.8	77.4	57.2	47.1	31.3	30.8	31.7	26.9	23.1
3044.8	72.5°	1814.6	261.6	48.1	41.8	32.2	21.2	24.5	25.0	20.7	17.3
1899.7	75°	1068.2	112.1	30.3	26.9	16.4	13.9	17.8	18.3	13.9	11.1
694.5	77.5°	363.6	42.3	19.2	15.9	8.2	7.7	11.5	11.5	7.7	4.3
139.5	80°	82.7	15.9	9.6	6.3	3.8	3.4	3.8	3.4	1.9	0.5
42.8	82.5°	23.6	6.3	3.8	2.4	1.4	1.4	0.5	0.0	0.0	0.0
14.9	85°	6.7	2.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
5.3	87.5°	2.9	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>
771.9
705.1
594.9
458.3
336.7
290.0
281.8
273.7
265.0
256.8
248.6
240.5
231.8
220.3
204.9
181.3
155.3
128.4
106.3
90.4
81.8
76.0
69.7
63.5
54.8
41.4
32.2
26.9
21.2
15.4
9.6
3.4
0.0
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