

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: P946147

Luminaire Tested: **GALN-SB1D-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946147
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-SB1D-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7441 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

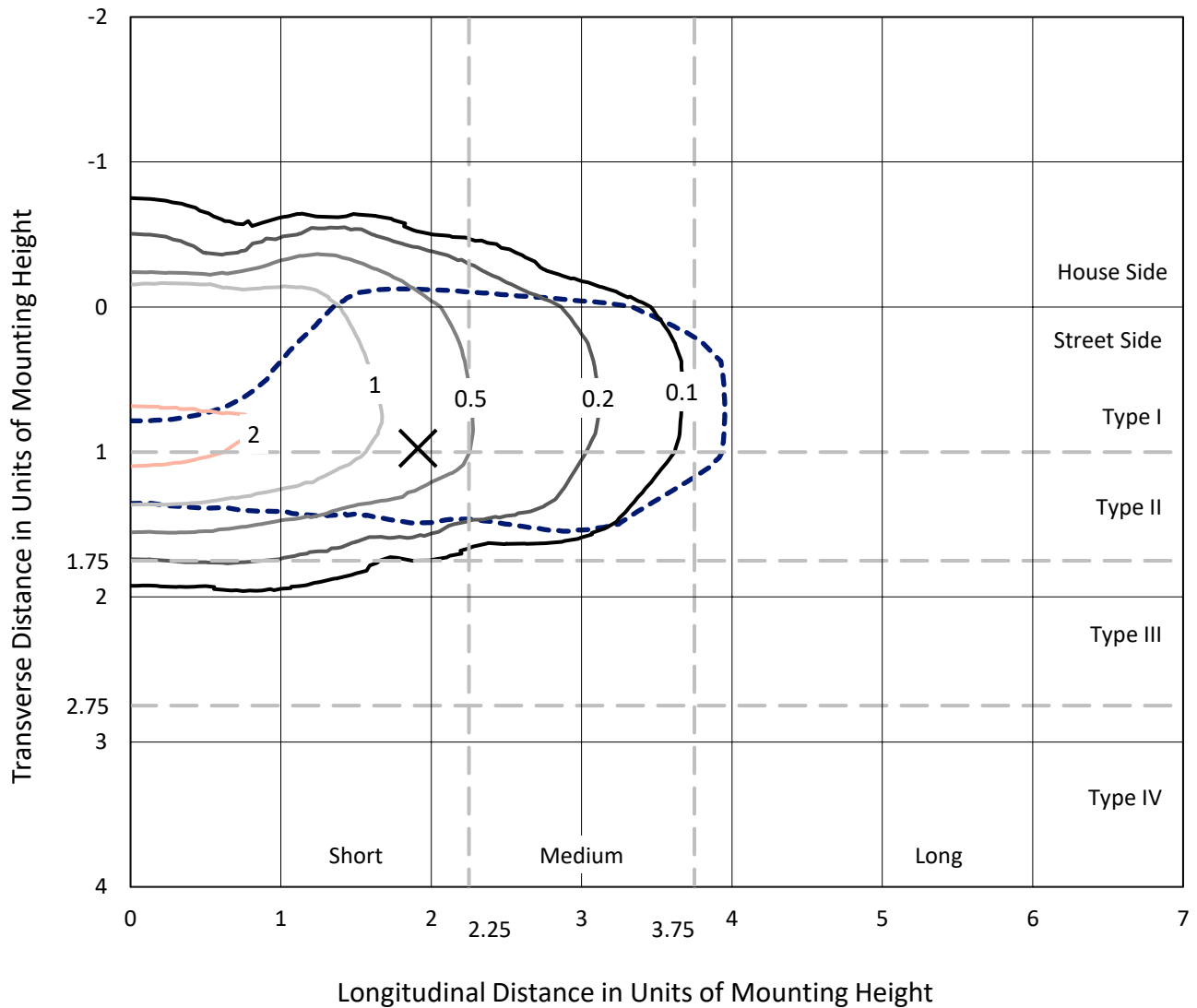
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

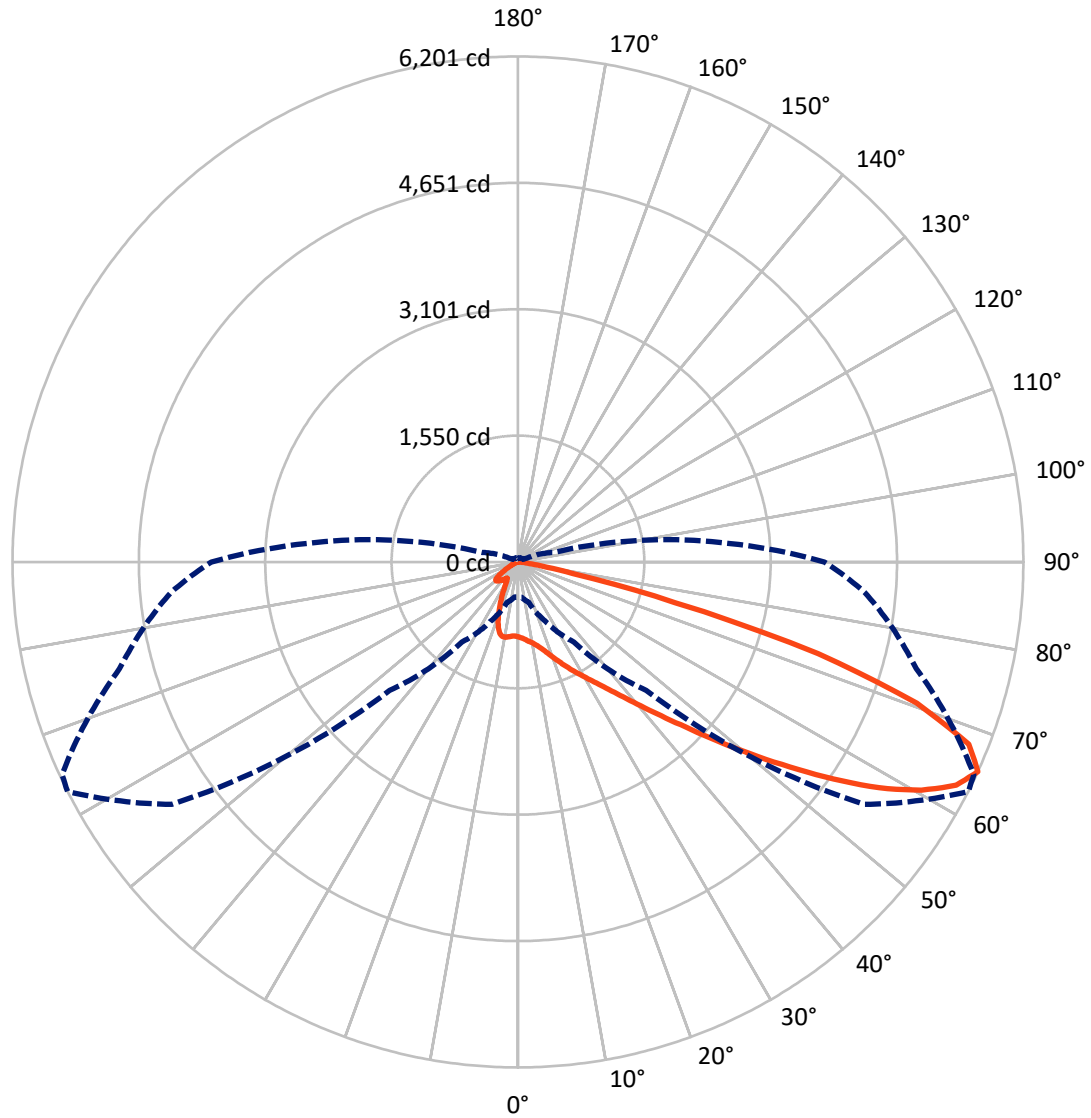
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	1093.8	0.0	1093.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	6347.2	0.0	6347.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	7441.0	0.0	7441.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	1.2
10°-20°	240.1	3.2
20°-30°	418.0	5.6
30°-40°	753.5	10.1
40°-50°	1494.4	20.1
50°-60°	2035.6	27.4
60°-70°	1624.8	21.8
70°-80°	735.3	9.9
80°-90°	52.8	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°	7441.0	100.0
0°-180°	7441.0	100.0

Coefficient of Utilization



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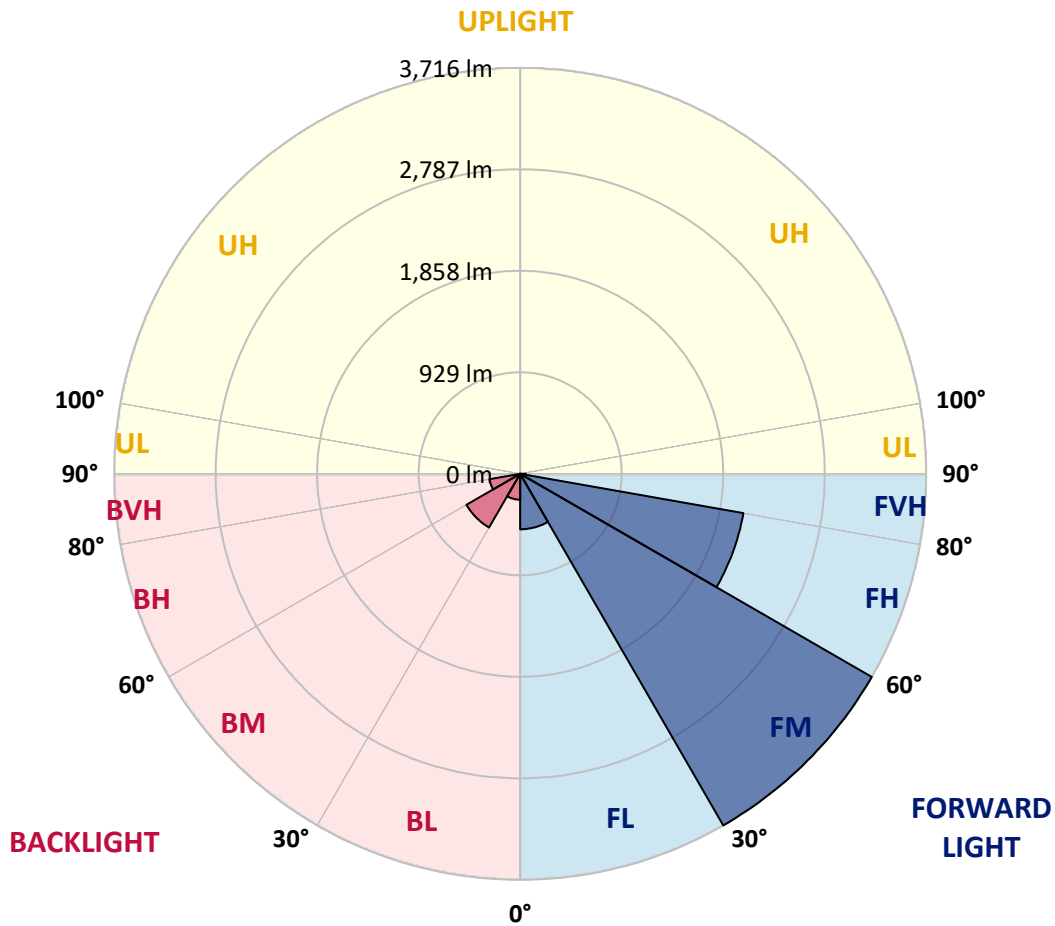
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.9	6.8			
FM (30°-60°)	3715.8	49.9			
FH (60°-80°)	2074.5	27.9			G2/5000
FVH (80°-90°)	48.9	0.7			G1/100
BL (0°-30°)	236.7	3.2	B1/500		
BM (30°-60°)	567.6	7.6	B1/1000		
BH (60°-80°)	285.5	3.8	B1/500		G1/500
BVH (80°-90°)	3.9	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°	918.4	918.4	918.4	918.4	918.4	918.4	918.4	918.4	918.4	918.4
2.5°	939.9	937.3	940.9	939.3	938.3	936.3	935.3	934.2	932.2	930.6
5°	942.4	940.9	944.5	947.5	950.6	953.7	955.2	957.3	955.2	951.1
7.5°	920.9	919.9	927.6	936.8	950.6	962.4	975.2	982.3	982.9	981.3
10°	919.4	916.8	924.5	935.8	953.7	974.7	997.2	1012.6	1014.6	1021.3
12.5°	943.4	940.9	951.6	963.9	982.3	1004.4	1032.0	1053.5	1056.6	1065.8
15°	983.9	980.3	992.6	1008.5	1032.0	1057.1	1086.3	1105.7	1108.3	1119.5
17.5°	1031.0	1027.4	1041.7	1058.6	1084.2	1118.5	1152.3	1173.8	1176.9	1184.0
20°	1091.4	1086.8	1098.0	1113.4	1140.5	1181.5	1221.9	1252.6	1252.1	1252.1
22.5°	1161.5	1154.3	1164.1	1176.4	1202.0	1251.6	1305.4	1341.7	1341.7	1327.4
25°	1236.8	1229.6	1240.3	1251.6	1274.1	1330.4	1393.4	1438.5	1440.5	1415.9
27.5°	1331.0	1321.7	1329.9	1343.2	1356.6	1413.9	1488.6	1540.8	1541.9	1504.0
30°	1512.2	1486.1	1460.5	1446.1	1452.3	1509.1	1589.0	1646.8	1651.9	1599.7
32.5°	1843.9	1838.8	1748.7	1630.9	1569.5	1611.5	1701.1	1770.7	1773.8	1706.7
35°	2359.4	2353.2	2208.4	1984.1	1784.0	1748.7	1837.2	1919.6	1917.6	1841.8
37.5°	2974.7	2969.1	2778.1	2478.1	2154.1	1956.0	2012.8	2099.3	2112.1	2012.8
40°	3500.4	3479.4	3358.6	3069.4	2645.5	2300.0	2262.6	2320.0	2333.3	2215.5
42.5°	3898.7	3880.8	3819.3	3638.6	3240.4	2808.8	2557.0	2579.0	2593.8	2452.5
45°	4105.0	4100.9	4125.5	4108.6	3846.5	3433.4	2977.8	2886.1	2891.8	2715.2
47.5°	4134.2	4132.1	4244.2	4402.9	4367.6	4137.7	3517.8	3269.0	3249.1	3011.5
50°	3962.2	3958.1	4173.1	4470.5	4715.7	4729.5	4131.1	3700.6	3656.5	3318.2
52.5°	3412.9	3411.9	3765.1	4260.1	4838.0	5247.6	4737.2	4174.6	4100.9	3642.7
55°	2626.1	2645.0	3049.9	3635.0	4614.8	5496.9	5281.3	4700.8	4587.7	3969.3
57.5°	1860.3	1887.9	2288.2	2809.3	3922.7	5349.4	5649.4	5228.1	5106.3	4294.9
60°	999.2	1023.8	1424.6	2046.6	2918.4	4799.6	5843.4	5685.7	5570.6	4604.1
62.5°	595.3	603.5	769.4	1321.2	1973.9	3666.8	5761.0	6034.4	5939.6	4863.6
65°	427.4	429.0	512.4	806.8	1198.4	2227.8	5183.1	6201.2	6172.1	5059.2
67.5°	359.9	358.8	393.7	536.0	816.5	1116.0	3972.4	5965.2	6089.1	5183.1
70°	308.7	310.2	351.2	392.6	613.8	631.7	1974.9	5193.8	5457.9	5215.8
72.5°	229.8	235.0	272.8	357.8	463.3	434.6	681.9	3851.1	4328.7	4914.3
75°	162.3	164.8	192.0	301.0	345.5	316.4	348.1	1990.8	2603.0	3767.6
77.5°	124.9	129.5	145.4	210.4	340.4	222.2	213.0	689.0	1058.6	2275.9
80°	67.6	75.8	104.9	152.0	239.1	157.2	105.5	274.4	358.8	1064.3
82.5°	34.8	38.9	73.2	109.5	136.2	137.2	52.2	114.2	147.9	328.6
85°	13.8	16.9	49.1	60.4	70.1	67.6	23.5	46.1	53.2	91.1
87.5°	3.1	5.1	17.9	13.8	13.3	14.3	5.6	10.8	10.2	10.8
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°
918.4	0°	918.4	918.4	918.4	918.4	918.4	918.4	918.4	918.4	918.4	918.4
924.5	2.5°	924.0	921.9	916.3	910.2	903.0	898.9	896.3	895.8	892.3	889.7
945.0	5°	939.3	937.3	926.6	913.8	899.9	889.2	878.9	869.7	856.4	853.9
974.7	7.5°	970.1	964.4	947.0	929.6	903.5	872.3	834.4	790.9	752.0	740.2
1014.1	10°	1007.9	1000.3	978.3	947.5	889.7	804.7	713.1	628.1	560.5	541.6
1060.7	12.5°	1050.9	1044.3	1015.1	958.3	831.8	677.8	537.5	432.0	366.5	350.1
1110.3	15°	1102.1	1092.4	1052.0	941.9	728.4	515.0	369.1	306.6	283.1	280.0
1167.1	17.5°	1156.4	1140.5	1084.7	883.0	589.2	366.0	285.1	267.2	257.0	253.9
1224.5	20°	1206.1	1185.6	1104.2	794.0	440.2	285.1	255.4	243.7	234.5	230.9
1281.8	22.5°	1255.7	1226.5	1104.2	672.6	330.2	252.9	234.5	223.7	213.0	208.3
1343.2	25°	1307.4	1268.5	1084.7	537.5	265.7	231.9	214.5	202.7	193.5	187.9
1401.6	27.5°	1357.6	1303.8	1040.2	409.5	236.5	213.5	196.1	184.8	176.1	172.0
1465.1	30°	1405.2	1338.6	977.7	310.7	217.6	195.5	179.2	169.4	160.7	156.6
1547.5	32.5°	1469.7	1382.7	911.2	254.9	201.2	178.7	163.8	154.6	146.9	143.8
1654.5	35°	1559.3	1447.7	853.9	250.3	187.4	164.8	150.0	141.3	133.6	131.0
1792.7	37.5°	1686.2	1552.6	823.7	281.0	176.1	152.5	138.7	129.5	122.3	120.3
1968.3	40°	1842.9	1694.9	840.0	311.8	168.4	141.8	128.5	119.3	113.1	110.6
2170.0	42.5°	2028.7	1870.5	930.6	335.3	163.3	132.6	118.8	108.5	104.4	103.4
2398.8	45°	2242.1	2063.5	1069.4	360.4	155.1	123.9	109.0	101.4	98.3	97.8
2647.6	47.5°	2484.8	2275.4	1230.1	391.6	146.9	115.7	101.4	96.2	93.7	92.7
2907.1	50°	2725.4	2488.9	1395.5	409.0	140.3	108.0	95.2	91.1	89.1	88.6
3181.5	52.5°	2977.2	2708.5	1529.1	392.6	134.6	101.9	90.1	87.0	85.0	84.5
3434.4	55°	3217.3	2886.1	1552.1	333.3	123.4	95.7	84.5	82.9	80.4	80.4
3690.8	57.5°	3424.1	2975.2	1389.3	244.7	112.1	86.5	78.8	77.3	75.3	74.7
3922.2	60°	3614.1	2949.6	1072.4	164.8	99.8	77.3	71.7	70.6	68.6	66.0
4123.4	62.5°	3721.0	2837.0	733.6	107.5	87.5	67.6	63.5	63.0	58.4	53.2
4272.4	65°	3761.5	2605.6	457.6	78.3	73.2	57.8	54.8	53.8	47.1	41.5
4356.8	67.5°	3726.2	2224.7	230.9	61.9	57.8	48.1	45.0	45.0	40.4	35.3
4351.7	70°	3584.9	1667.8	97.3	49.7	44.5	36.9	36.9	38.9	34.3	28.7
4126.0	72.5°	3278.2	1122.1	51.7	37.9	33.3	26.1	30.2	31.7	27.1	21.5
3377.0	75°	2606.1	684.4	35.8	28.2	21.0	18.4	23.0	24.1	18.4	14.3
2315.4	77.5°	1782.5	393.1	24.1	17.9	13.3	10.8	15.9	14.8	9.7	6.7
892.8	80°	782.7	163.8	13.8	8.2	5.1	4.1	5.6	4.1	3.1	2.0
122.3	82.5°	91.6	38.4	5.1	3.1	2.0	1.0	0.5	0.0	0.0	0.0
37.4	85°	18.9	4.6	2.6	1.0	0.5	0.0	0.0	0.0	0.0	0.0
6.7	87.5°	3.6	1.0	0.5	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>
918.4
892.3
852.8
734.6
534.4
345.5
276.9
252.4
228.8
205.8
185.8
172.0
157.2
143.8
131.0
119.8
110.1
103.4
97.3
92.7
88.6
84.5
79.9
74.2
65.5
52.2
41.0
34.8
28.2
21.5
13.8
7.2
2.0
0.0
0.0
0.0
0.0

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