

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: P946777

Luminaire Tested: **GALN-SB2B-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946777
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-SB2B-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA 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: 7484 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

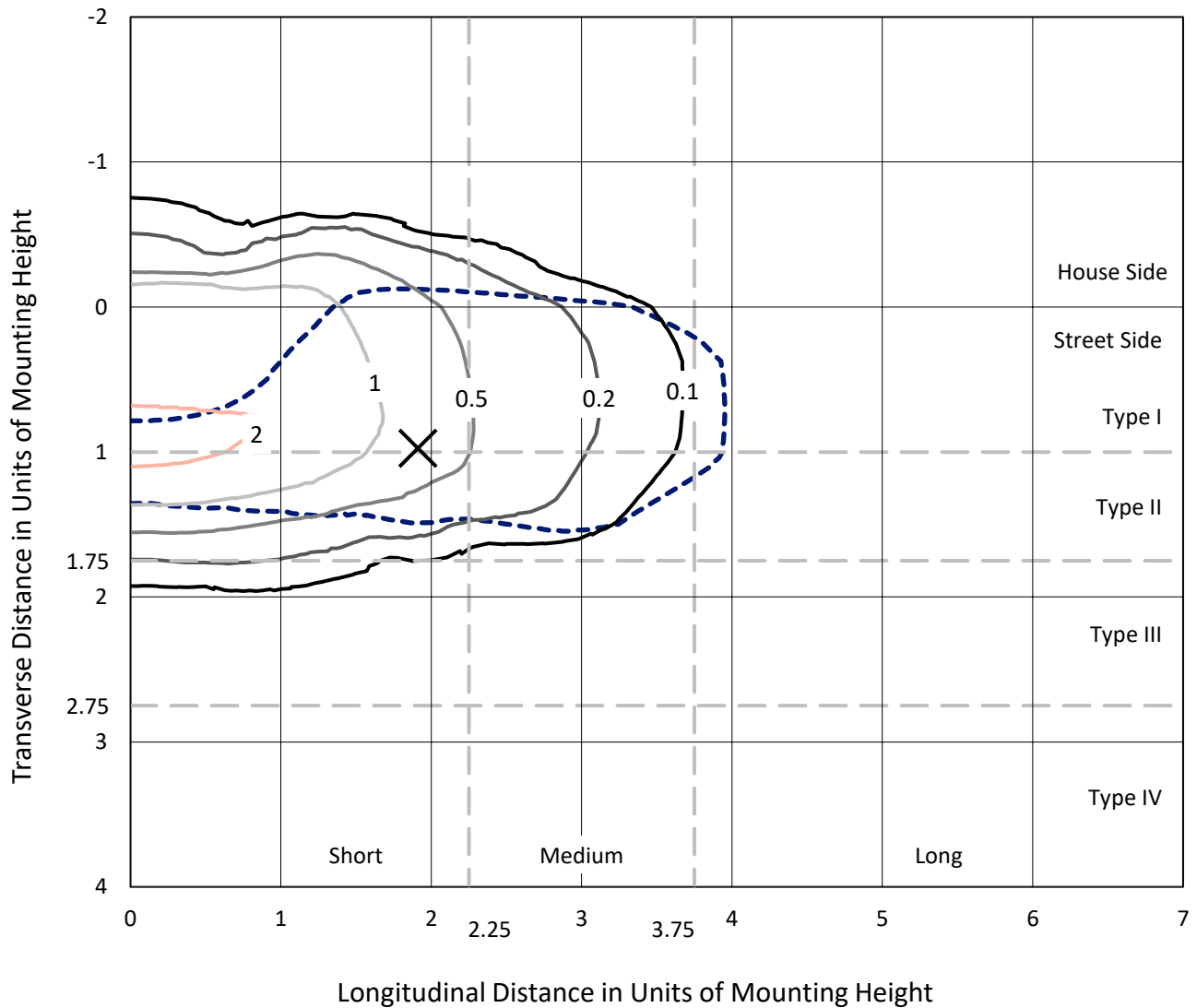
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

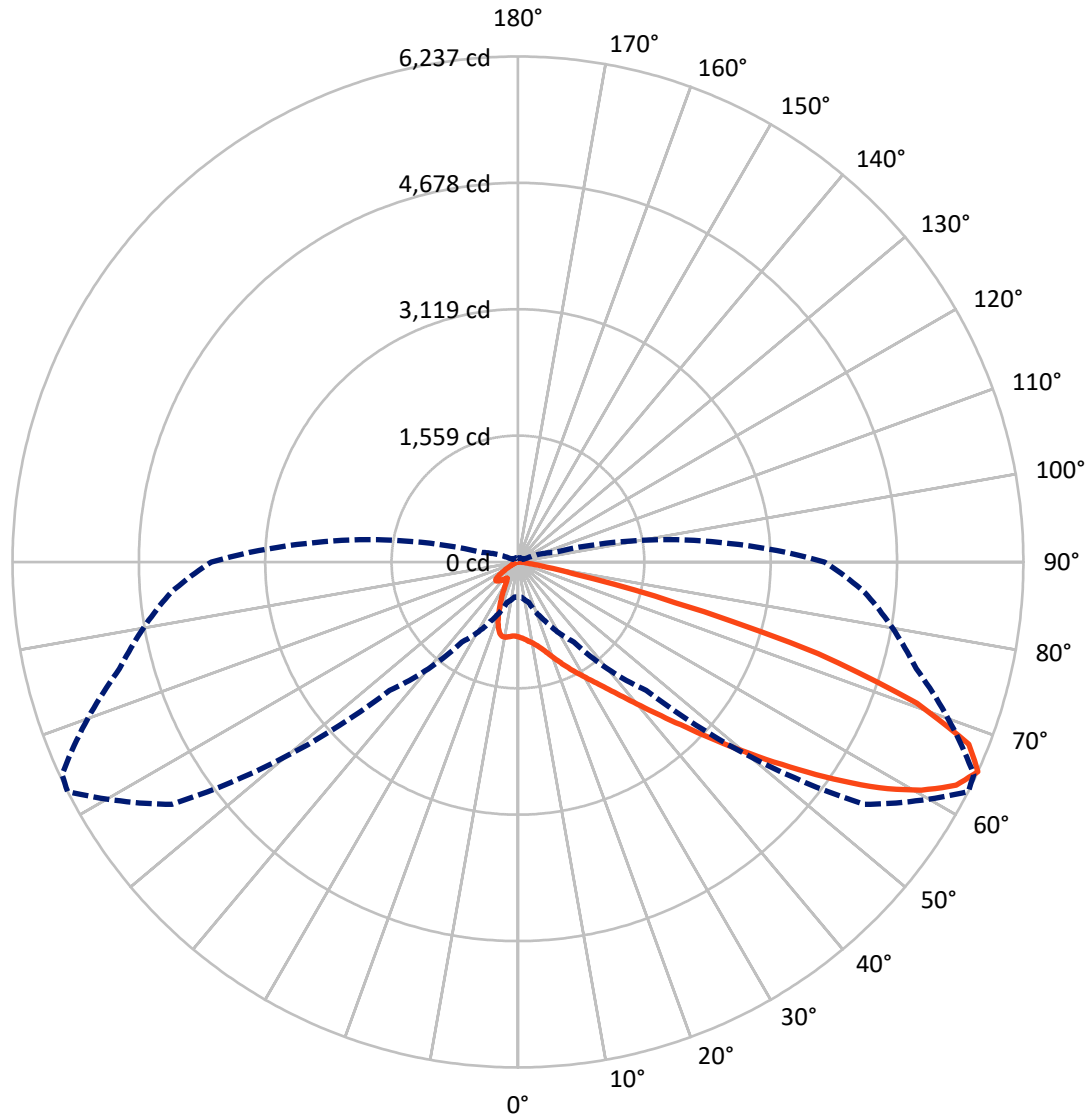
✕ Max cd
 - - - 1/2 Max cd



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	1100.1	0.0	1100.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	6383.9	0.0	6383.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	7484.0	0.0	7484.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	1.2
10°-20°	241.5	3.2
20°-30°	420.5	5.6
30°-40°	757.8	10.1
40°-50°	1503.0	20.1
50°-60°	2047.4	27.4
60°-70°	1634.2	21.8
70°-80°	739.5	9.9
80°-90°	53.2	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°	7484.0	100.0
0°-180°	7484.0	100.0



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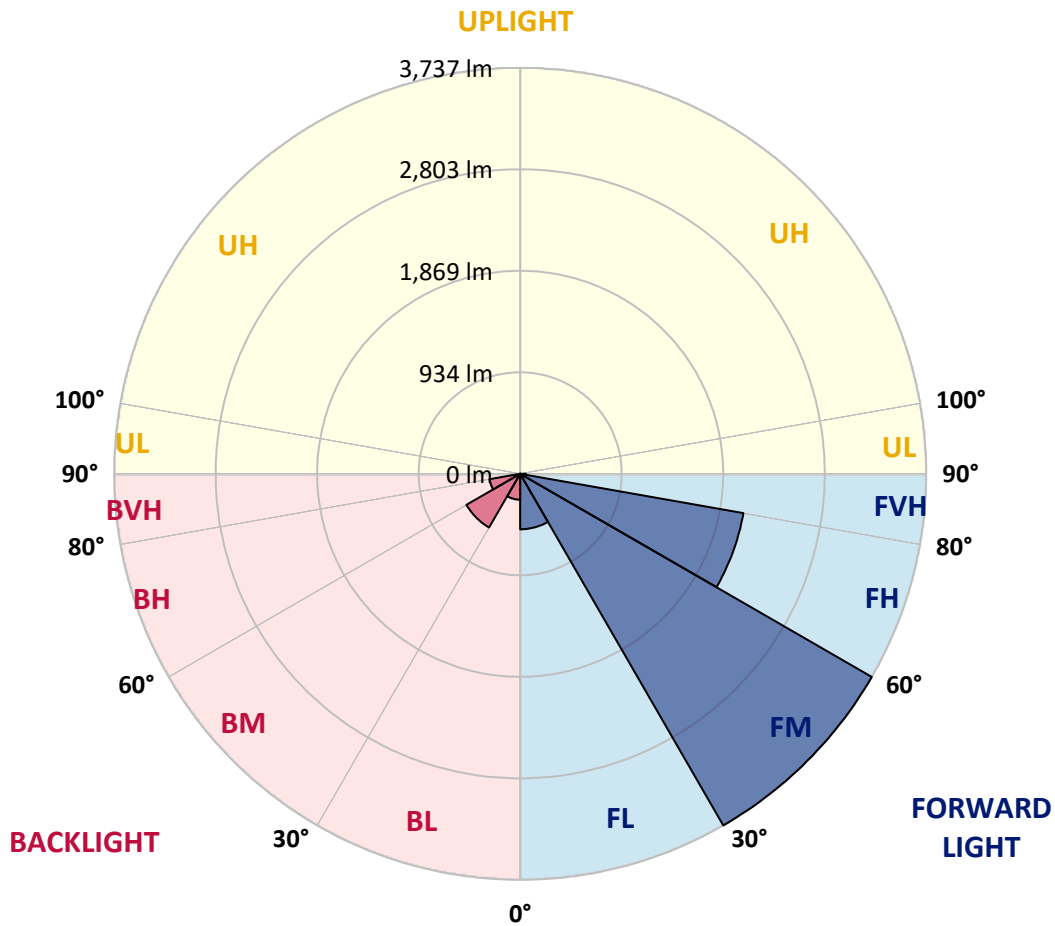
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	510.9	6.8			
FM (30°-60°)	3737.3	49.9			
FH (60°-80°)	2086.5	27.9			G2/5000
FVH (80°-90°)	49.2	0.7			G1/100
BL (0°-30°)	238.1	3.2	B1/500		
BM (30°-60°)	570.9	7.6	B1/1000		
BH (60°-80°)	287.2	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°	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7
2.5°	945.3	942.7	946.3	944.8	943.7	941.7	940.7	939.6	937.6	936.0
5°	947.9	946.3	949.9	953.0	956.1	959.2	960.7	962.8	960.7	956.6
7.5°	926.2	925.2	932.9	942.2	956.1	967.9	980.8	988.0	988.5	987.0
10°	924.7	922.1	929.8	941.2	959.2	980.3	1003.0	1018.4	1020.5	1027.2
12.5°	948.9	946.3	957.1	969.5	988.0	1010.2	1038.0	1059.6	1062.7	1071.9
15°	989.6	986.0	998.3	1014.3	1038.0	1063.2	1092.5	1112.1	1114.7	1126.0
17.5°	1036.9	1033.3	1047.7	1064.7	1090.5	1125.0	1159.0	1180.6	1183.7	1190.9
20°	1097.7	1093.1	1104.4	1119.8	1147.1	1188.3	1229.0	1259.9	1259.4	1259.4
22.5°	1168.2	1161.0	1170.8	1183.2	1208.9	1258.8	1312.9	1349.5	1349.5	1335.0
25°	1243.9	1236.7	1247.5	1258.8	1281.5	1338.1	1401.5	1446.8	1448.8	1424.1
27.5°	1338.6	1329.4	1337.6	1351.0	1364.4	1422.1	1497.2	1549.7	1550.8	1512.7
30°	1520.9	1494.7	1468.9	1454.5	1460.7	1517.8	1598.1	1656.3	1661.5	1609.0
32.5°	1854.5	1849.4	1758.8	1640.4	1578.6	1620.8	1710.9	1780.9	1784.0	1716.6
35°	2373.0	2366.8	2221.1	1995.6	1794.3	1758.8	1847.8	1930.7	1928.7	1852.5
37.5°	2991.9	2986.2	2794.2	2492.5	2166.6	1967.3	2024.4	2111.5	2124.3	2024.4
40°	3520.6	3499.5	3378.0	3087.1	2660.8	2313.3	2275.7	2333.4	2346.8	2228.3
42.5°	3921.2	3903.2	3841.4	3659.7	3259.1	2825.1	2571.7	2593.9	2608.8	2466.7
45°	4128.7	4124.6	4149.3	4132.3	3868.7	3453.2	2995.0	2902.8	2908.5	2730.8
47.5°	4158.0	4156.0	4268.7	4428.4	4392.8	4161.7	3538.1	3287.9	3267.8	3028.9
50°	3985.1	3980.9	4197.2	4496.3	4742.9	4756.8	4155.0	3722.0	3677.7	3337.4
52.5°	3432.6	3431.6	3786.8	4284.7	4866.0	5277.9	4764.6	4198.7	4124.6	3663.8
55°	2641.3	2660.3	3067.6	3656.1	4641.5	5528.6	5311.9	4728.0	4614.2	3992.3
57.5°	1871.0	1898.8	2301.4	2825.6	3945.4	5380.3	5682.0	5258.3	5135.8	4319.7
60°	1005.0	1029.7	1432.9	2058.4	2935.2	4827.4	5877.2	5718.6	5602.8	4630.7
62.5°	598.8	607.0	773.8	1328.9	1985.3	3688.0	5794.3	6069.2	5974.0	4891.7
65°	429.9	431.5	515.4	811.4	1205.3	2240.7	5213.0	6237.1	6207.7	5088.4
67.5°	361.9	360.9	395.9	539.1	821.2	1122.4	3995.3	5999.7	6124.3	5213.0
70°	310.5	312.0	353.2	394.9	617.3	635.3	1986.3	5223.8	5489.5	5246.0
72.5°	231.2	236.3	274.4	359.9	466.0	437.1	685.8	3873.3	4353.7	4942.7
75°	163.2	165.8	193.1	302.7	347.5	318.2	350.1	2002.3	2618.1	3789.4
77.5°	125.6	130.3	146.2	211.6	342.4	223.5	214.2	693.0	1064.7	2289.1
80°	68.0	76.2	105.5	152.9	240.4	158.1	106.1	276.0	360.9	1070.4
82.5°	35.0	39.1	73.6	110.2	137.0	138.0	52.5	114.8	148.8	330.5
85°	13.9	17.0	49.4	60.8	70.5	68.0	23.7	46.3	53.5	91.6
87.5°	3.1	5.1	18.0	13.9	13.4	14.4	5.7	10.8	10.3	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°
923.7	0°	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7
929.8	2.5°	929.3	927.3	921.6	915.4	908.2	904.1	901.5	901.0	897.4	894.8
950.4	5°	944.8	942.7	931.9	919.0	905.1	894.3	884.0	874.8	861.4	858.8
980.3	7.5°	975.7	970.0	952.5	935.0	908.7	877.3	839.2	795.5	756.3	744.5
1019.9	10°	1013.8	1006.0	983.9	953.0	894.8	809.4	717.2	631.7	563.8	544.7
1066.8	12.5°	1057.0	1050.3	1021.0	963.8	836.7	681.7	540.6	434.5	368.6	352.2
1116.7	15°	1108.5	1098.7	1058.0	947.4	732.7	518.0	371.2	308.4	284.7	281.6
1173.9	17.5°	1163.1	1147.1	1091.0	888.1	592.6	368.1	286.8	268.8	258.5	255.4
1231.6	20°	1213.0	1192.4	1110.6	798.6	442.8	286.8	256.9	245.1	235.8	232.2
1289.2	22.5°	1263.0	1233.6	1110.6	676.5	332.1	254.3	235.8	225.0	214.2	209.5
1351.0	25°	1315.0	1275.8	1091.0	540.6	267.2	233.2	215.7	203.9	194.6	189.0
1409.7	27.5°	1365.4	1311.4	1046.2	411.9	237.9	214.7	197.2	185.9	177.1	173.0
1473.5	30°	1413.3	1346.4	983.4	312.5	218.8	196.7	180.2	170.4	161.7	157.5
1556.4	32.5°	1478.2	1390.6	916.5	256.4	202.3	179.7	164.8	155.5	147.8	144.7
1664.0	35°	1568.3	1456.0	858.8	251.8	188.4	165.8	150.9	142.1	134.4	131.8
1803.1	37.5°	1696.0	1561.6	828.4	282.7	177.1	153.4	139.5	130.3	123.1	121.0
1979.7	40°	1853.5	1704.7	844.9	313.6	169.4	142.6	129.2	120.0	113.8	111.2
2182.5	42.5°	2040.4	1881.3	936.0	337.2	164.2	133.3	119.4	109.2	105.0	104.0
2412.7	45°	2255.1	2075.4	1075.6	362.5	156.0	124.6	109.7	101.9	98.9	98.3
2662.9	47.5°	2499.2	2288.6	1237.2	393.9	147.8	116.4	101.9	96.8	94.2	93.2
2923.9	50°	2741.1	2503.3	1403.5	411.4	141.1	108.6	95.8	91.6	89.6	89.1
3199.9	52.5°	2994.5	2724.1	1537.9	394.9	135.4	102.5	90.6	87.5	85.5	85.0
3454.2	55°	3235.9	2902.8	1561.1	335.2	124.1	96.3	85.0	83.4	80.8	80.8
3712.2	57.5°	3443.9	2992.4	1397.3	246.1	112.8	87.0	79.3	77.7	75.7	75.2
3944.9	60°	3634.9	2966.6	1078.6	165.8	100.4	77.7	72.1	71.1	69.0	66.4
4147.2	62.5°	3742.6	2853.4	737.8	108.1	88.0	68.0	63.8	63.3	58.7	53.5
4297.1	65°	3783.2	2620.7	460.3	78.8	73.6	58.2	55.1	54.1	47.4	41.7
4382.0	67.5°	3747.7	2237.6	232.2	62.3	58.2	48.4	45.3	45.3	40.7	35.5
4376.9	70°	3605.6	1677.4	97.8	49.9	44.8	37.1	37.1	39.1	34.5	28.8
4149.8	72.5°	3297.2	1128.6	52.0	38.1	33.5	26.3	30.4	31.9	27.3	21.6
3396.6	75°	2621.2	688.4	36.0	28.3	21.1	18.5	23.2	24.2	18.5	14.4
2328.7	77.5°	1792.8	395.4	24.2	18.0	13.4	10.8	16.0	14.9	9.8	6.7
897.9	80°	787.2	164.8	13.9	8.2	5.1	4.1	5.7	4.1	3.1	2.1
123.1	82.5°	92.2	38.6	5.1	3.1	2.1	1.0	0.5	0.0	0.0	0.0
37.6	85°	19.0	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>
923.7
897.4
857.8
738.8
537.5
347.5
278.5
253.8
230.1
207.0
186.9
173.0
158.1
144.7
131.8
120.5
110.7
104.0
97.8
93.2
89.1
85.0
80.3
74.7
65.9
52.5
41.2
35.0
28.3
21.6
13.9
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