

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: P946697

Luminaire Tested: **GALN-SB2B-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946697
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-SB2B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA 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: 8674 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

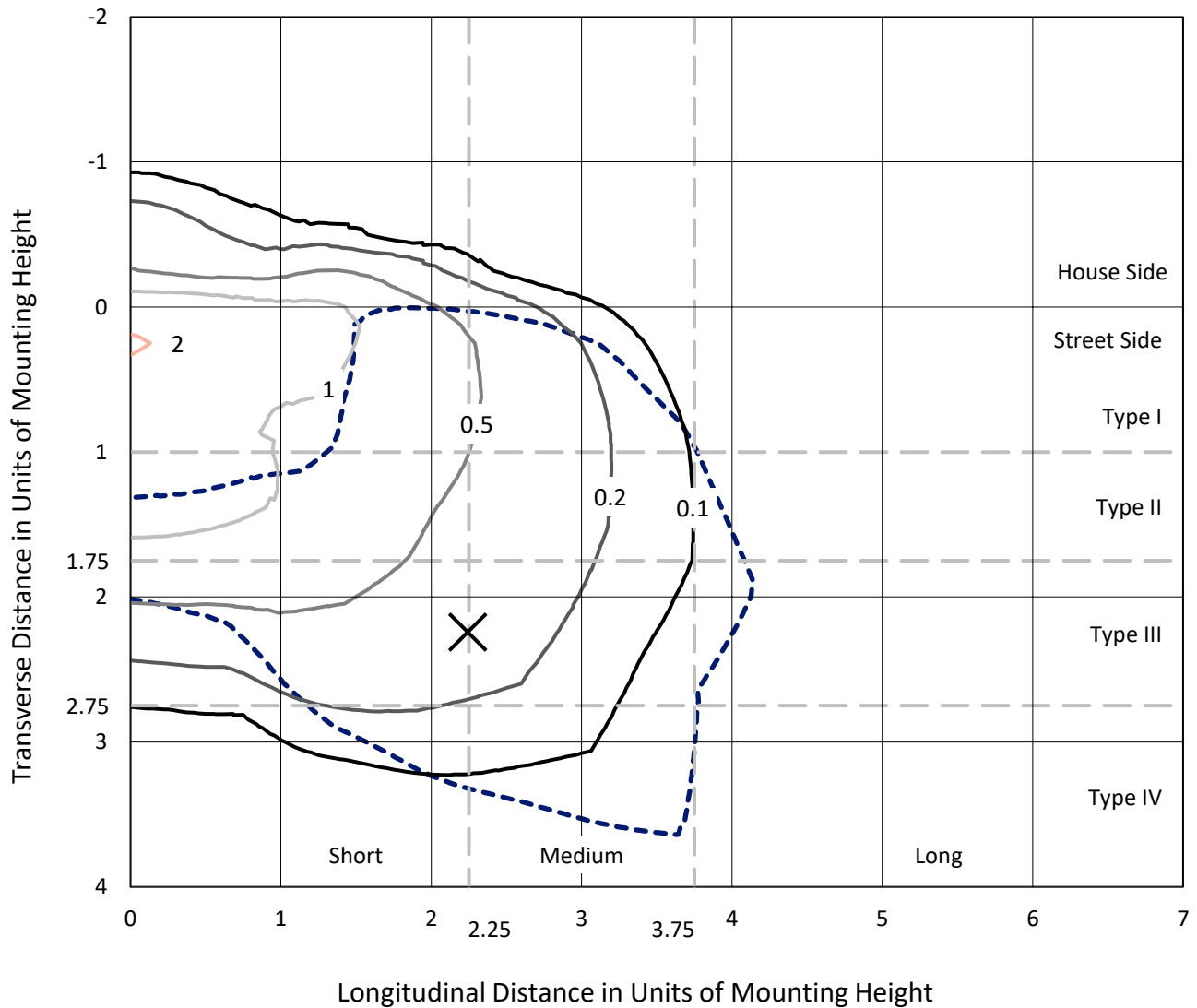
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

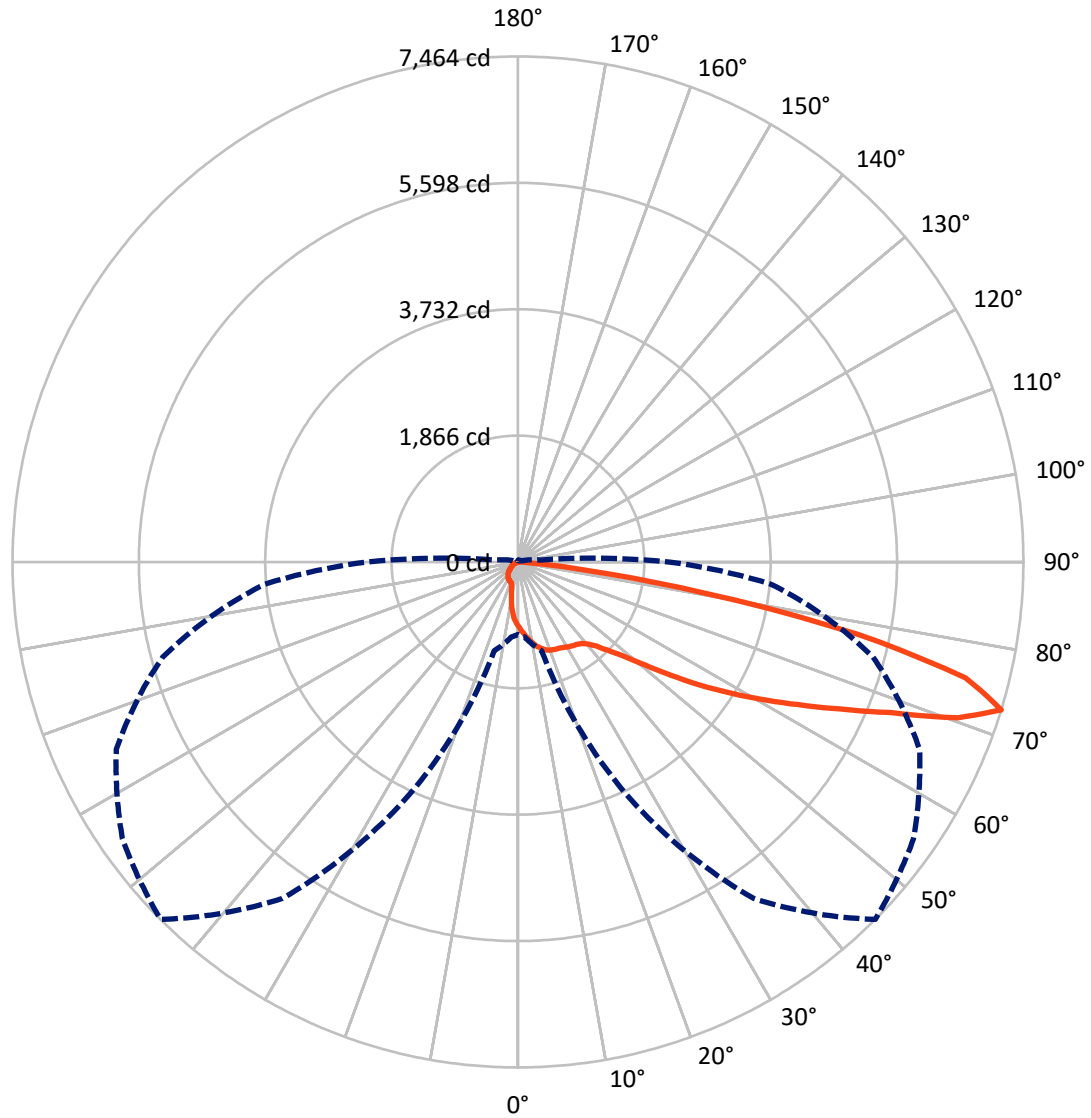
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	911.4	0.0	911.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	7762.6	0.0	7762.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	8674.0	0.0	8674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	1.0
10°-20°	261.7	3.0
20°-30°	429.7	5.0
30°-40°	609.4	7.0
40°-50°	1007.3	11.6
50°-60°	1809.5	20.9
60°-70°	2512.6	29.0
70°-80°	1822.5	21.0
80°-90°	131.8	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°	8674.0	100.0
0°-180°	8674.0	100.0

Coefficient of Utilization



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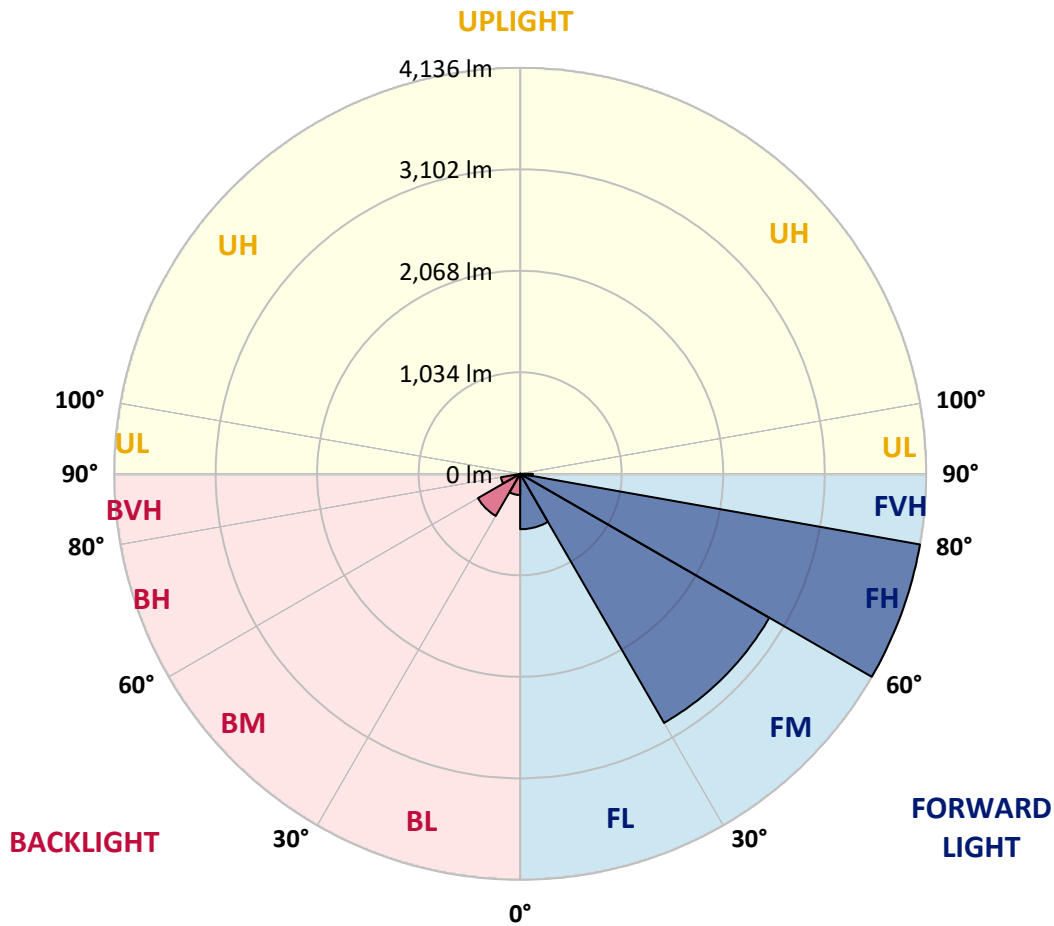
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	565.0	6.5			
FM (30°-60°)	2930.5	33.8			
FH (60°-80°)	4136.4	47.7			G2/5000
FVH (80°-90°)	130.7	1.5			G2/225
BL (0°-30°)	215.9	2.5	B1/500		
BM (30°-60°)	495.7	5.7	B1/1000		
BH (60°-80°)	198.7	2.3	B1/500		G1/500
BVH (80°-90°)	1.1	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°	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3
2.5°	1037.9	1039.7	1038.5	1031.4	1019.5	1013.0	1009.5	997.6	989.9	976.3
5°	1133.2	1140.3	1136.2	1122.0	1099.5	1083.5	1078.7	1054.5	1032.6	1007.1
7.5°	1234.4	1238.0	1230.3	1211.9	1181.8	1154.5	1150.4	1116.6	1081.7	1042.6
10°	1322.1	1326.2	1314.4	1287.7	1253.4	1219.6	1213.7	1176.4	1135.0	1087.0
12.5°	1395.5	1399.6	1384.2	1352.3	1314.4	1279.4	1273.5	1234.4	1188.9	1135.6
15°	1451.1	1458.8	1438.1	1403.8	1362.9	1328.0	1325.0	1286.5	1242.1	1182.9
17.5°	1483.7	1491.4	1471.9	1430.4	1395.5	1365.9	1362.3	1330.4	1288.9	1232.1
20°	1489.0	1496.1	1475.4	1439.3	1410.3	1386.6	1384.8	1361.7	1331.5	1277.1
22.5°	1473.0	1481.9	1463.0	1434.0	1413.8	1401.4	1399.0	1386.0	1368.8	1322.7
25°	1456.5	1463.6	1449.4	1423.9	1413.2	1412.1	1413.8	1411.5	1407.9	1368.8
27.5°	1455.3	1463.0	1447.0	1422.7	1416.8	1429.2	1431.0	1442.3	1445.2	1410.9
30°	1465.3	1470.7	1455.3	1429.8	1426.9	1455.3	1455.9	1476.0	1480.7	1446.4
32.5°	1487.3	1493.2	1477.8	1440.5	1436.3	1476.0	1477.8	1504.4	1512.1	1484.3
35°	1538.8	1545.9	1528.1	1470.1	1455.3	1495.5	1500.9	1532.2	1547.6	1524.6
37.5°	1667.2	1646.5	1622.2	1529.9	1498.5	1526.3	1535.2	1571.9	1599.2	1572.5
40°	1986.4	1921.2	1845.4	1631.7	1574.3	1592.0	1599.2	1635.9	1673.2	1647.1
42.5°	2465.3	2388.4	2266.4	1866.2	1688.6	1697.4	1702.8	1734.7	1787.4	1766.7
45°	2892.2	2864.4	2740.1	2266.4	1902.3	1858.5	1865.0	1881.6	1959.1	1951.4
47.5°	3220.2	3204.2	3108.3	2725.8	2263.4	2055.6	2074.0	2081.7	2193.6	2220.8
50°	3472.4	3466.5	3380.7	3134.4	2735.3	2346.3	2352.8	2336.3	2503.8	2571.3
52.5°	3710.4	3730.6	3667.2	3513.9	3239.2	2727.0	2725.8	2647.7	2873.9	2975.7
55°	3925.4	3932.5	3939.0	3901.1	3746.0	3160.4	3149.2	3021.3	3303.1	3408.5
57.5°	4127.2	4130.2	4188.2	4265.8	4273.5	3625.8	3605.0	3451.7	3772.0	3847.2
60°	4262.8	4276.4	4399.0	4614.5	4708.6	4105.9	4094.7	3938.4	4249.2	4284.1
62.5°	4067.4	4150.3	4459.4	4886.9	5119.5	4638.2	4632.9	4486.0	4751.3	4722.9
65°	3292.4	3432.8	3976.3	5071.0	5522.7	5232.6	5240.3	5084.0	5267.0	5174.6
67.5°	2303.1	2451.1	3094.1	5085.8	5973.3	5930.7	5975.1	5729.9	5814.6	5607.4
70°	1592.6	1669.0	2087.6	4767.3	6324.4	6892.2	6891.0	6523.3	6359.3	5804.5
72.5°	1071.0	1110.7	1355.8	3782.1	6066.2	7463.5	7429.2	7129.6	6542.8	5428.6
75°	451.7	480.8	627.6	2125.5	4799.2	6828.2	6735.3	6300.7	5813.4	4274.7
77.5°	143.3	155.7	247.5	760.8	2643.5	5132.6	5034.3	3934.8	3896.3	2144.4
80°	68.1	79.3	139.1	305.5	1040.2	2791.6	2777.9	1785.1	1676.1	579.0
82.5°	29.6	34.9	77.0	163.4	465.4	995.8	1016.0	607.5	502.7	219.7
85°	9.5	12.4	35.5	75.2	196.6	247.5	244.5	144.5	202.5	119.6
87.5°	0.0	0.0	11.8	17.2	20.1	14.2	16.0	12.4	56.2	33.2
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°
950.3	0°	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3
962.1	2.5°	955.0	945.5	928.9	913.5	899.9	886.3	878.0	866.2	865.0	865.0
977.5	5°	961.5	946.1	916.5	885.1	849.0	814.7	780.3	747.2	736.5	728.8
1002.4	7.5°	980.5	956.2	909.4	849.6	780.9	705.7	653.0	596.2	574.3	562.5
1035.5	10°	1007.7	974.5	903.5	798.7	687.4	585.0	509.8	448.2	424.5	414.4
1071.6	12.5°	1037.9	997.0	892.8	735.3	585.0	462.4	389.0	360.6	357.0	357.0
1114.8	15°	1074.0	1024.3	874.5	660.7	477.8	365.9	339.8	341.0	344.6	346.9
1156.9	17.5°	1111.3	1053.3	845.5	577.3	383.1	329.2	329.8	331.6	334.5	336.9
1202.5	20°	1151.6	1082.3	807.0	488.4	328.6	318.5	320.3	322.1	324.4	325.6
1245.1	22.5°	1194.8	1109.5	761.4	401.4	310.2	309.6	310.2	312.0	315.0	315.0
1294.8	25°	1241.0	1139.7	709.3	338.1	300.8	300.8	302.0	303.1	305.5	305.5
1342.8	27.5°	1288.3	1167.5	654.2	304.9	292.5	291.9	291.9	293.7	294.8	295.4
1390.2	30°	1340.4	1200.1	599.2	297.8	286.0	283.0	281.2	282.4	283.6	284.2
1439.9	32.5°	1393.7	1231.5	550.0	300.8	279.5	274.1	268.2	267.0	267.0	269.4
1491.4	35°	1452.9	1265.8	512.1	310.8	275.9	261.1	251.6	246.3	246.9	250.4
1553.0	37.5°	1524.0	1307.3	484.3	319.7	273.5	246.3	230.9	224.4	220.2	224.4
1637.6	40°	1616.9	1368.2	464.2	326.8	270.6	229.1	208.4	197.7	190.1	192.4
1769.1	42.5°	1753.7	1464.2	456.5	327.4	264.1	209.0	185.3	171.1	159.9	160.4
1966.8	45°	1945.5	1615.7	496.1	319.7	249.8	187.1	161.0	142.1	135.0	133.2
2262.3	47.5°	2208.4	1836.6	587.9	303.7	229.1	165.8	137.4	121.4	116.0	113.1
2650.1	50°	2560.7	2120.2	689.7	286.0	208.4	145.6	117.8	107.8	104.2	101.2
3110.1	52.5°	2969.2	2407.9	773.2	268.2	187.7	127.9	105.4	99.5	96.5	94.1
3554.1	55°	3344.0	2606.2	768.5	249.3	167.6	113.7	96.5	93.0	89.4	87.0
3936.6	57.5°	3577.2	2634.1	633.5	228.5	144.5	102.4	88.2	85.8	81.7	78.7
4267.6	60°	3684.4	2475.4	444.0	201.3	121.4	91.8	79.3	78.2	72.8	68.7
4580.8	62.5°	3703.9	2180.6	296.0	167.6	101.2	81.7	70.5	68.7	61.6	54.5
4835.3	65°	3624.6	1759.0	204.9	130.8	86.4	71.0	60.4	56.8	49.1	42.0
4895.7	67.5°	3373.6	1235.0	142.7	94.1	73.4	56.2	48.0	46.8	40.9	34.9
4587.9	70°	2913.5	704.0	95.3	70.5	58.0	38.5	37.9	39.1	33.2	28.4
3748.3	72.5°	2233.8	322.1	59.2	51.5	39.7	26.1	30.2	30.8	25.5	21.3
2338.6	75°	1315.0	137.9	37.3	33.2	20.1	17.2	21.9	22.5	17.2	13.6
854.9	77.5°	447.6	52.1	23.7	19.5	10.1	9.5	14.2	14.2	9.5	5.3
171.7	80°	101.8	19.5	11.8	7.7	4.7	4.1	4.7	4.1	2.4	0.6
52.7	82.5°	29.0	7.7	4.7	3.0	1.8	1.8	0.6	0.0	0.0	0.0
18.4	85°	8.3	3.6	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
6.5	87.5°	3.6	0.6	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>
950.3
868.0
732.4
564.2
414.4
357.0
346.9
336.9
326.2
316.2
306.1
296.0
285.4
271.2
252.2
223.2
191.2
158.1
130.8
111.3
100.7
93.5
85.8
78.2
67.5
50.9
39.7
33.2
26.1
18.9
11.8
4.1
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