

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: P940884

Luminaire Tested: **GALN-SB4A-930-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-930-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9132 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

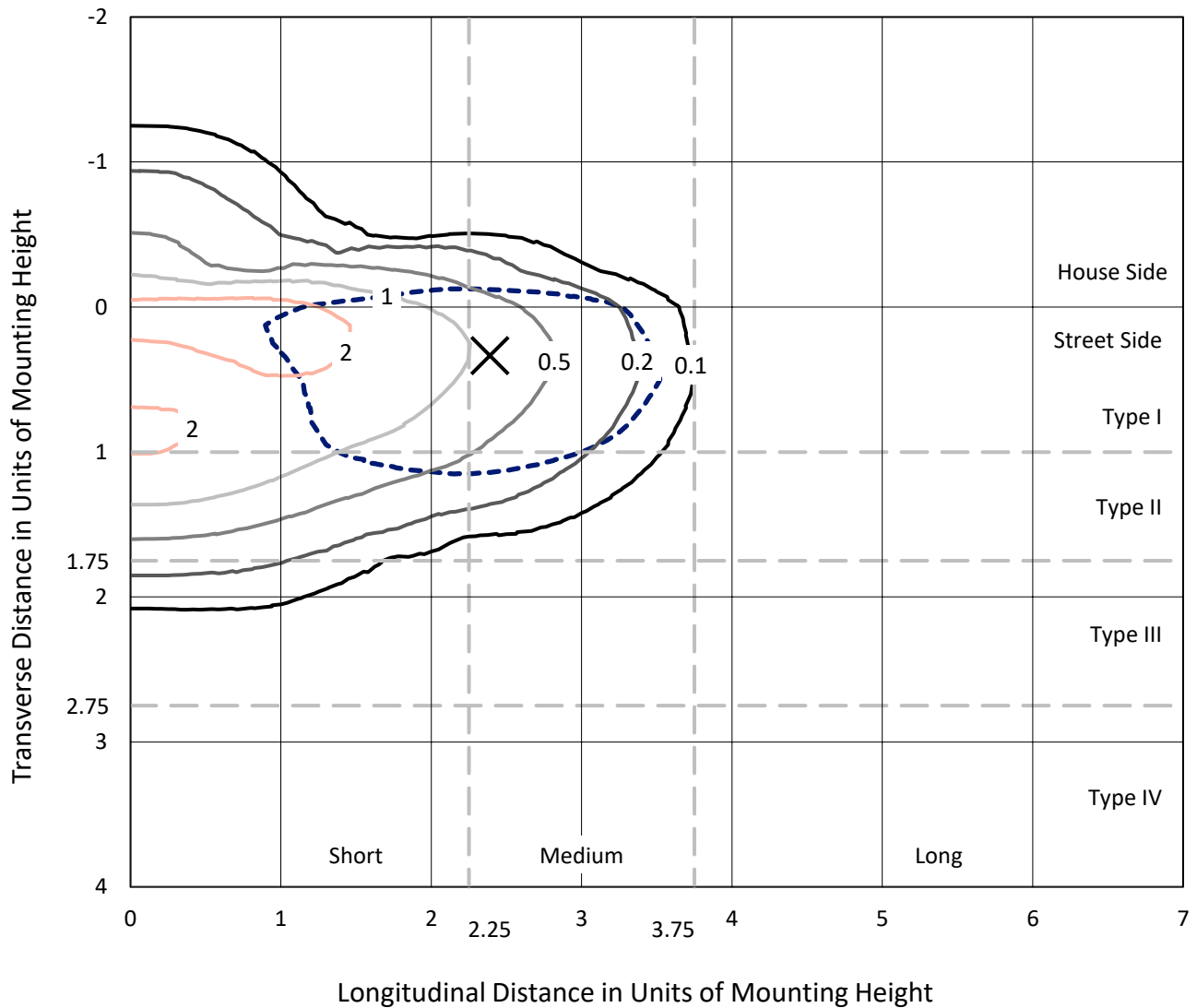
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

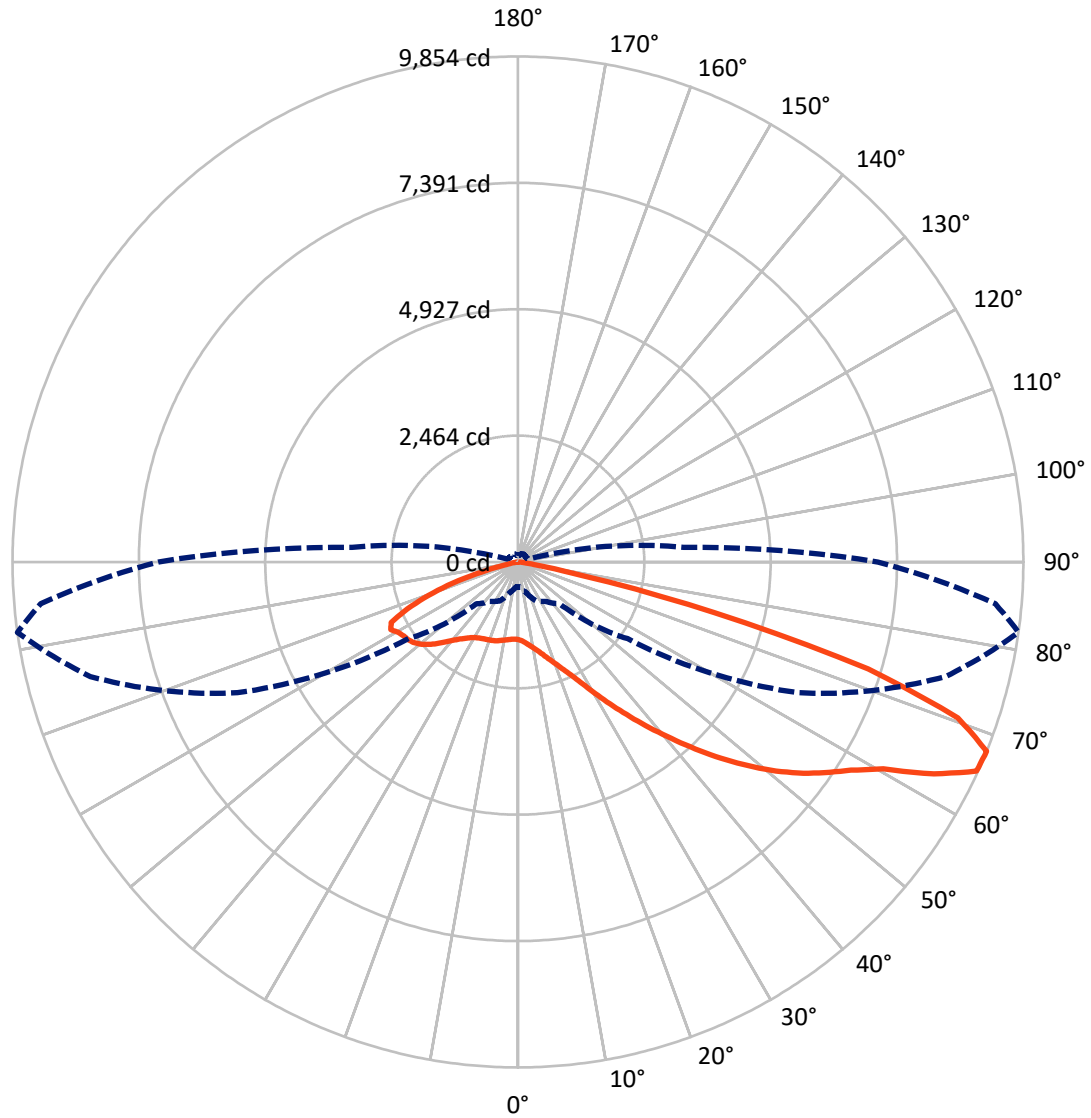
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1654.2	0.0	1654.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7477.8	0.0	7477.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	9132.0	0.0	9132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	1.5
10°-20°	350.3	3.8
20°-30°	561.0	6.1
30°-40°	992.0	10.9
40°-50°	1738.1	19.0
50°-60°	2318.1	25.4
60°-70°	2158.1	23.6
70°-80°	828.3	9.1
80°-90°	51.4	0.6
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°	9132.0	100.0
0°-180°	9132.0	100.0

Coefficient of Utilization



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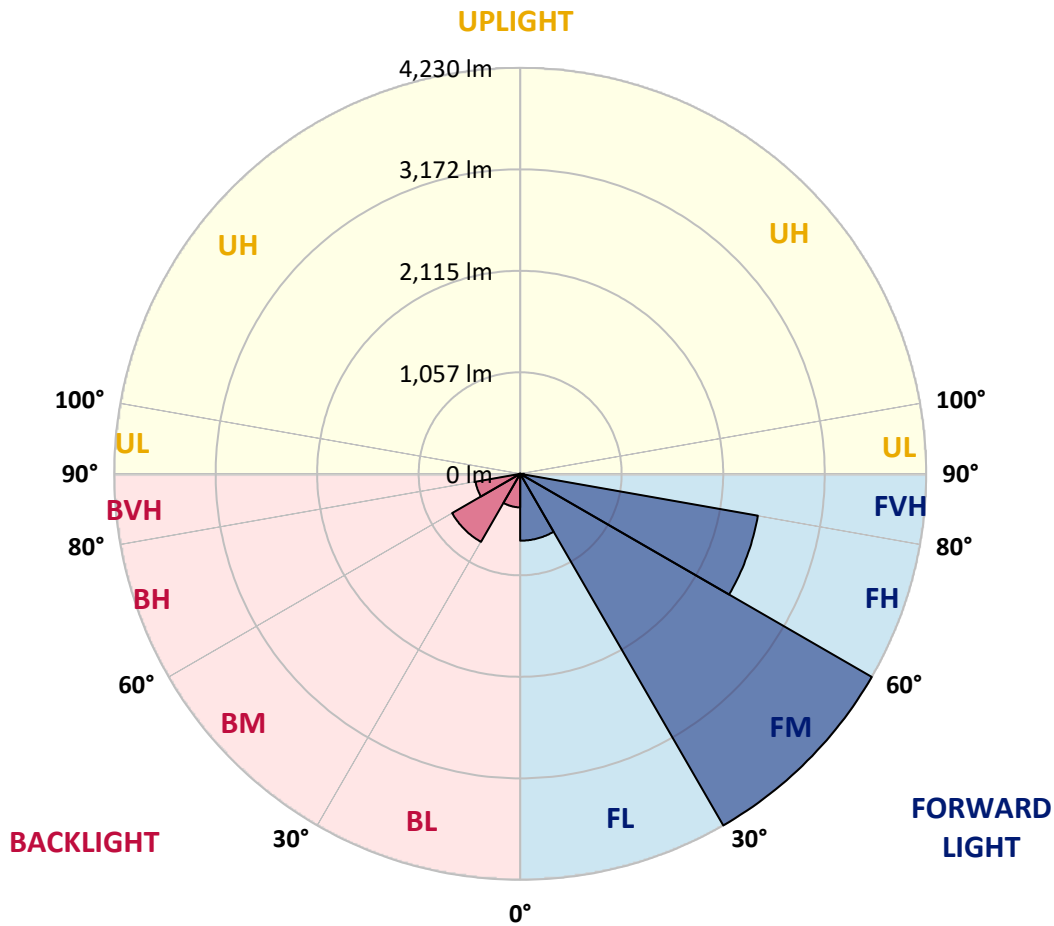
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	696.7	7.6			
FM (30°-60°)	4229.6	46.3			
FH (60°-80°)	2514.2	27.5			G2/5000
FVH (80°-90°)	37.4	0.4			G1/100
BL (0°-30°)	349.4	3.8	B1/500		
BM (30°-60°)	818.6	9.0	B1/1000		
BH (60°-80°)	472.1	5.2	B1/500		G1/500
BVH (80°-90°)	14.0	0.2			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9
2.5°	1599.0	1608.2	1602.9	1600.3	1595.7	1589.1	1583.9	1567.4	1550.3	1539.2
5°	1631.2	1640.4	1639.8	1642.4	1645.7	1647.6	1646.3	1627.9	1603.6	1584.5
7.5°	1603.6	1614.1	1622.7	1635.8	1658.8	1683.2	1695.0	1691.0	1666.1	1639.8
10°	1525.4	1536.5	1556.9	1587.8	1636.5	1689.1	1733.1	1753.5	1737.7	1708.8
12.5°	1382.0	1393.2	1433.3	1500.4	1581.9	1673.3	1757.4	1812.0	1816.0	1787.0
15°	1220.9	1232.1	1274.9	1359.0	1483.3	1629.9	1770.6	1873.8	1908.7	1883.7
17.5°	1121.0	1130.9	1163.1	1230.8	1360.3	1543.1	1766.0	1939.6	2019.1	1999.4
20°	1090.8	1099.3	1114.4	1161.8	1269.6	1453.0	1735.7	2001.4	2138.1	2127.0
22.5°	1123.0	1130.9	1135.5	1156.5	1224.2	1393.9	1697.6	2064.5	2276.2	2277.5
25°	1197.3	1205.2	1199.9	1213.1	1242.6	1375.4	1683.2	2138.8	2449.8	2464.2
27.5°	1319.6	1320.2	1307.7	1307.1	1311.7	1403.1	1698.3	2218.3	2668.7	2695.7
30°	1564.8	1554.9	1506.9	1455.0	1431.3	1485.9	1740.4	2312.4	2927.1	2975.1
32.5°	1942.9	1928.4	1840.3	1716.0	1591.1	1619.4	1816.0	2419.5	3208.5	3295.3
35°	2353.1	2349.2	2257.1	2072.4	1854.1	1809.4	1938.9	2560.2	3515.5	3653.6
37.5°	2734.5	2732.5	2679.9	2462.3	2196.6	2074.4	2136.2	2744.3	3844.3	4044.2
40°	3082.9	3088.8	3036.2	2841.6	2574.0	2414.3	2404.4	2971.8	4209.8	4469.6
42.5°	3384.1	3390.6	3337.4	3193.4	2946.8	2790.3	2733.8	3250.6	4566.9	4926.5
45°	3588.5	3629.3	3621.4	3506.3	3329.5	3167.1	3129.6	3600.4	4973.8	5411.1
47.5°	3646.4	3683.9	3743.0	3758.8	3651.0	3491.2	3535.9	4021.8	5385.4	5896.3
50°	3503.7	3538.6	3661.5	3825.2	3900.2	3850.9	3931.1	4473.5	5806.9	6380.2
52.5°	3222.3	3257.8	3413.0	3672.0	3977.8	4132.9	4327.5	4918.6	6215.2	6838.5
55°	2815.3	2852.8	3052.0	3345.3	3829.8	4249.3	4658.3	5363.1	6589.3	7250.7
57.5°	2261.7	2289.3	2496.5	2906.7	3457.7	4133.6	4902.2	5848.3	6941.7	7655.7
60°	1474.1	1498.4	1739.0	2196.6	2841.0	3747.0	4950.8	6389.4	7409.8	8182.3
62.5°	980.3	996.7	1139.4	1475.4	2000.7	3004.7	4666.1	6821.4	8096.2	9098.9
65°	672.6	689.0	831.7	1065.8	1292.6	1987.6	3847.6	6764.2	8718.2	9826.7
67.5°	480.0	493.8	614.7	835.7	935.6	1154.5	2608.2	6033.0	8628.8	9854.3
70°	343.9	351.8	451.7	650.9	743.6	693.6	1450.4	4614.2	7555.1	9099.5
72.5°	240.6	243.3	313.6	495.7	599.0	506.3	690.4	3076.4	5714.2	7142.2
75°	163.1	166.3	211.1	363.6	480.6	386.6	365.6	1649.6	3354.5	3953.4
77.5°	99.9	101.3	136.1	248.5	359.6	294.6	235.4	698.9	1297.9	1274.2
80°	56.5	56.5	86.8	154.5	245.2	190.0	165.0	297.2	410.9	361.0
82.5°	31.6	32.2	63.1	96.0	162.4	112.4	90.7	137.4	177.5	157.1
85°	13.1	14.5	38.8	45.4	77.6	55.9	36.8	57.9	65.7	58.5
87.5°	1.3	2.0	11.8	8.5	9.2	11.2	5.3	11.2	9.2	9.2
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°
1512.9	0°	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9	1512.9
1535.2	2.5°	1522.7	1512.9	1487.9	1458.9	1420.8	1402.4	1377.4	1360.3	1345.9	1347.2
1573.4	5°	1552.3	1527.3	1471.4	1401.7	1315.0	1253.2	1187.4	1142.0	1105.2	1097.3
1626.0	7.5°	1593.1	1553.6	1455.7	1330.1	1183.5	1072.4	973.1	909.3	863.9	849.5
1689.7	10°	1645.7	1588.5	1435.3	1240.0	1029.0	887.6	781.1	731.1	700.2	689.7
1764.7	12.5°	1706.8	1628.6	1408.3	1130.2	869.8	733.7	666.0	641.0	631.2	627.9
1856.7	15°	1783.7	1678.5	1367.6	1000.0	735.1	639.7	610.8	607.5	608.8	607.5
1967.2	17.5°	1875.1	1733.1	1301.2	865.9	644.3	591.7	581.2	583.8	587.1	586.5
2090.8	20°	1975.1	1787.0	1216.3	746.9	582.5	557.5	551.6	554.3	556.9	555.6
2233.5	22.5°	2088.8	1844.9	1122.3	654.2	541.1	526.0	519.4	520.1	520.1	517.4
2414.3	25°	2224.9	1908.7	1023.7	588.4	509.5	497.7	489.8	487.2	483.2	475.4
2633.9	27.5°	2387.3	1976.4	929.0	542.4	484.6	473.4	464.2	457.6	447.7	434.6
2897.5	30°	2570.1	2058.6	848.8	513.5	464.8	453.7	443.1	433.3	418.8	402.4
3200.6	32.5°	2785.1	2146.7	790.3	494.4	447.1	435.3	422.8	410.9	395.1	378.7
3541.2	35°	3041.5	2253.2	756.1	481.3	433.3	417.5	403.7	390.5	378.7	364.2
3911.4	37.5°	3319.6	2366.3	745.6	474.7	424.1	399.7	384.0	374.8	373.4	364.9
4311.8	40°	3624.0	2500.4	753.5	470.8	414.2	382.7	365.6	363.6	366.9	351.8
4739.8	42.5°	3946.2	2659.5	766.6	466.2	400.4	365.6	349.1	349.1	346.5	325.5
5192.1	45°	4294.7	2842.9	779.8	455.0	384.0	348.5	336.0	331.4	320.2	299.8
5647.1	47.5°	4645.8	3029.7	789.6	434.6	364.2	334.0	322.8	312.3	295.9	277.5
6093.5	50°	4979.1	3197.3	779.1	404.4	341.9	320.2	308.4	293.9	276.1	263.6
6516.3	52.5°	5276.9	3342.6	734.4	368.8	318.2	305.7	295.2	280.1	265.6	252.5
6897.6	55°	5536.0	3460.3	655.5	335.3	297.2	293.2	282.7	263.6	243.9	232.7
7275.7	57.5°	5784.5	3549.7	556.9	307.7	278.1	279.4	263.6	246.6	228.1	216.3
7785.2	60°	6115.2	3669.4	456.9	282.1	257.7	261.7	244.6	232.1	209.1	194.0
8659.0	62.5°	6643.8	3855.5	362.9	250.5	234.1	235.4	228.1	213.0	185.4	167.7
9306.6	65°	7063.3	3787.1	286.0	216.3	207.1	209.1	209.1	192.6	163.1	142.7
9341.5	67.5°	7016.0	3242.7	228.1	182.8	181.5	182.8	187.4	173.6	144.6	128.2
8630.1	70°	6463.0	2579.3	182.8	151.9	157.8	154.5	167.7	158.5	130.2	113.7
6690.5	72.5°	5273.7	1858.0	139.4	125.6	121.0	126.2	151.2	142.7	108.5	90.1
3543.8	75°	3081.6	991.5	103.9	99.3	87.4	105.2	134.1	121.6	82.8	66.4
1086.2	77.5°	1003.3	345.8	76.3	73.0	65.1	84.8	114.4	102.6	67.7	52.6
318.2	80°	268.9	104.5	51.9	48.0	42.1	63.1	90.7	81.5	48.7	34.2
136.8	82.5°	107.8	44.1	30.2	27.0	23.0	43.4	71.7	65.7	36.2	21.7
42.7	85°	34.8	14.5	11.2	8.5	10.5	27.0	42.7	44.7	25.6	11.2
6.6	87.5°	4.6	2.0	2.0	2.6	2.0	4.6	13.1	12.5	7.2	1.3
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>
1512.9
1334.0
1079.6
835.0
681.8
625.9
606.9
585.2
554.9
516.1
474.0
433.3
401.1
379.4
362.9
364.2
352.4
325.5
299.2
276.8
261.7
251.2
231.4
215.0
192.0
166.3
140.7
125.6
111.8
88.1
64.4
50.6
33.5
21.7
8.5
0.0
0.0

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