

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: P948398

Luminaire Tested: **GALN-SB3B-950-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948398  
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-SB3B-950-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

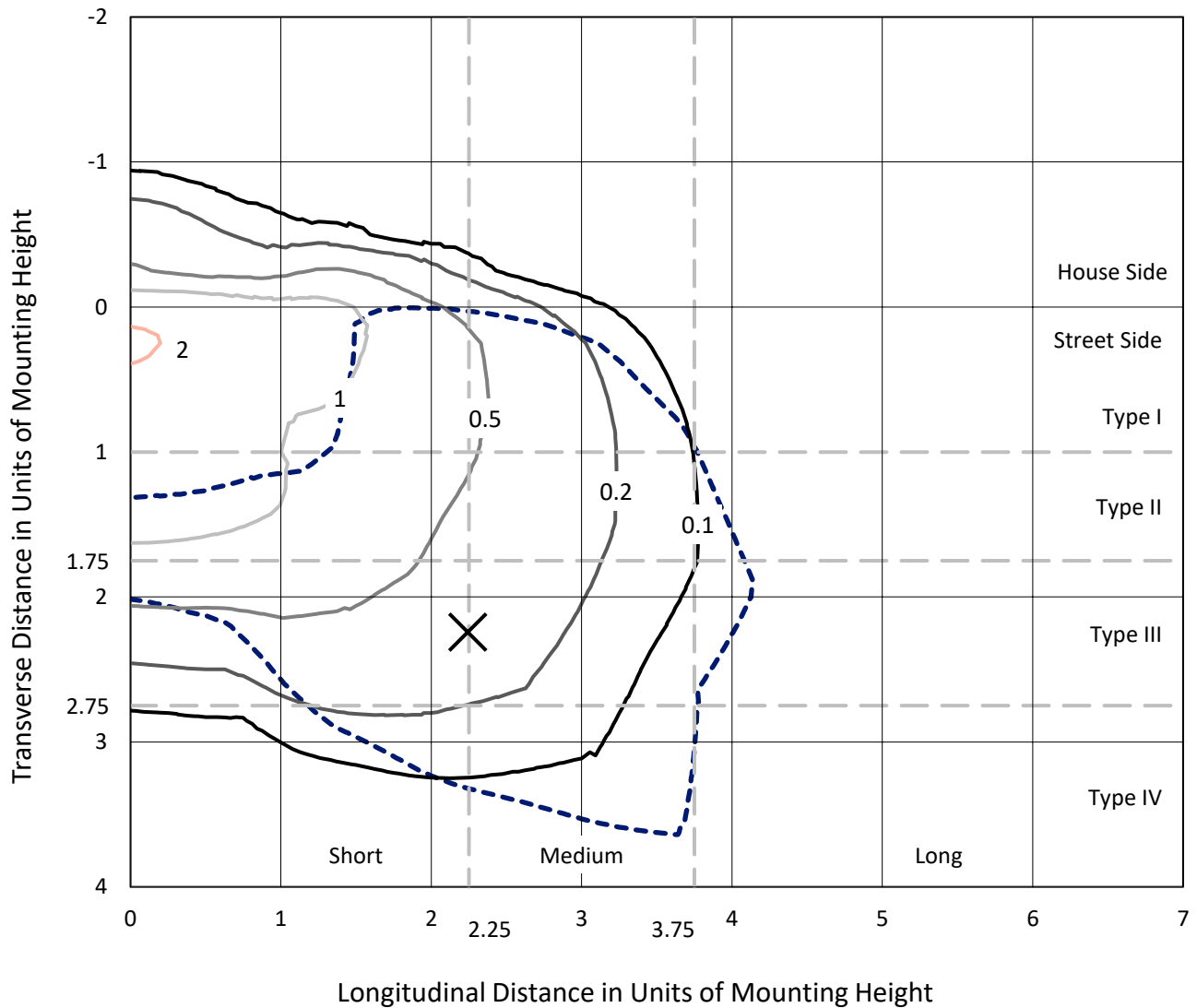
Lumens per Lamp: N/A  
Luminaire Lumens: 9053 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

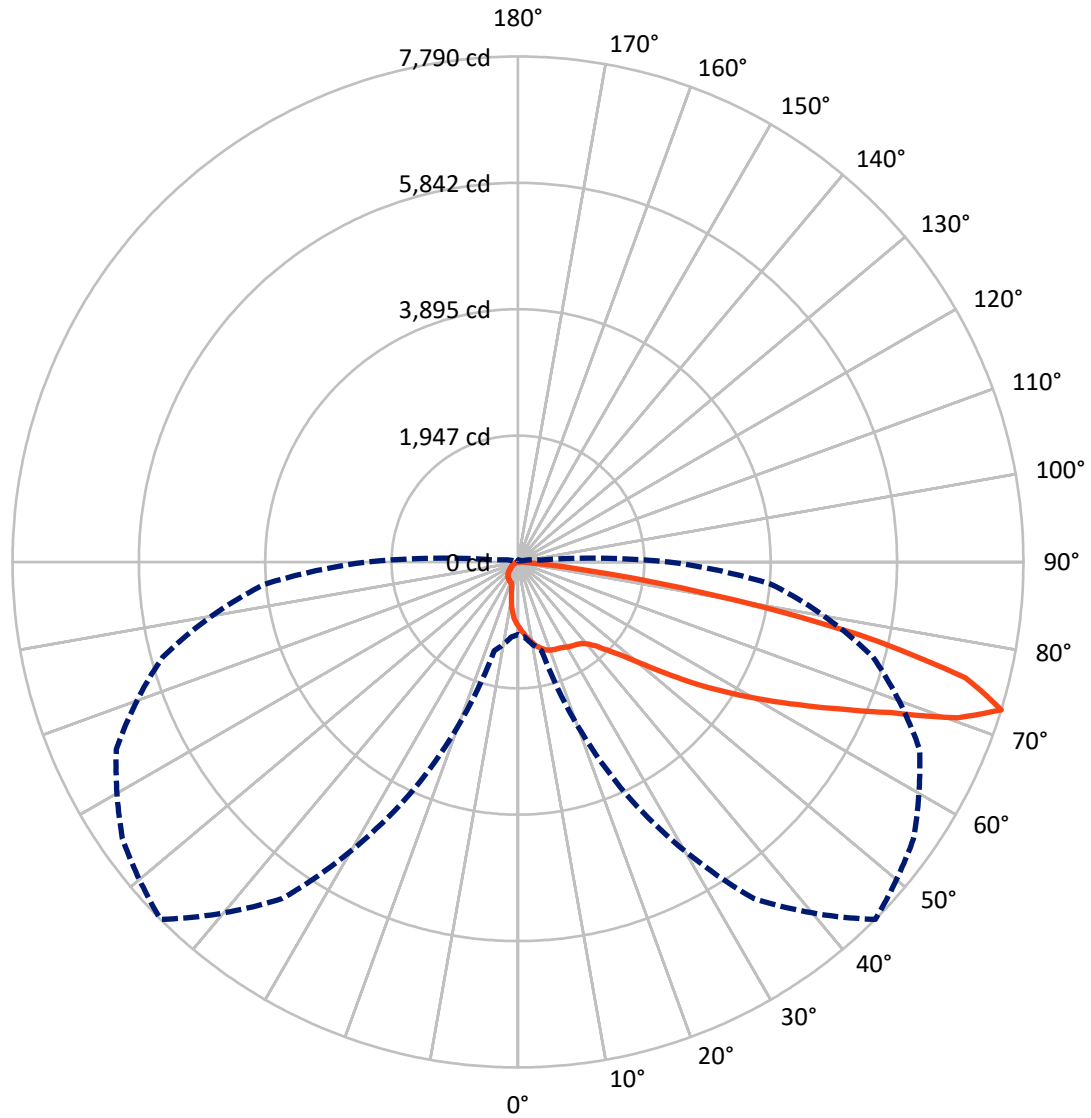
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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
<b>House Side</b>	Lumens	951.2	0.0	951.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	8101.8	0.0	8101.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	9053.0	0.0	9053.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.4	1.0
10°-20°	273.1	3.0
20°-30°	448.5	5.0
30°-40°	636.0	7.0
40°-50°	1051.3	11.6
50°-60°	1888.6	20.9
60°-70°	2622.4	29.0
70°-80°	1902.2	21.0
80°-90°	137.5	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°	9053.0	100.0
0°-180°	9053.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P948398

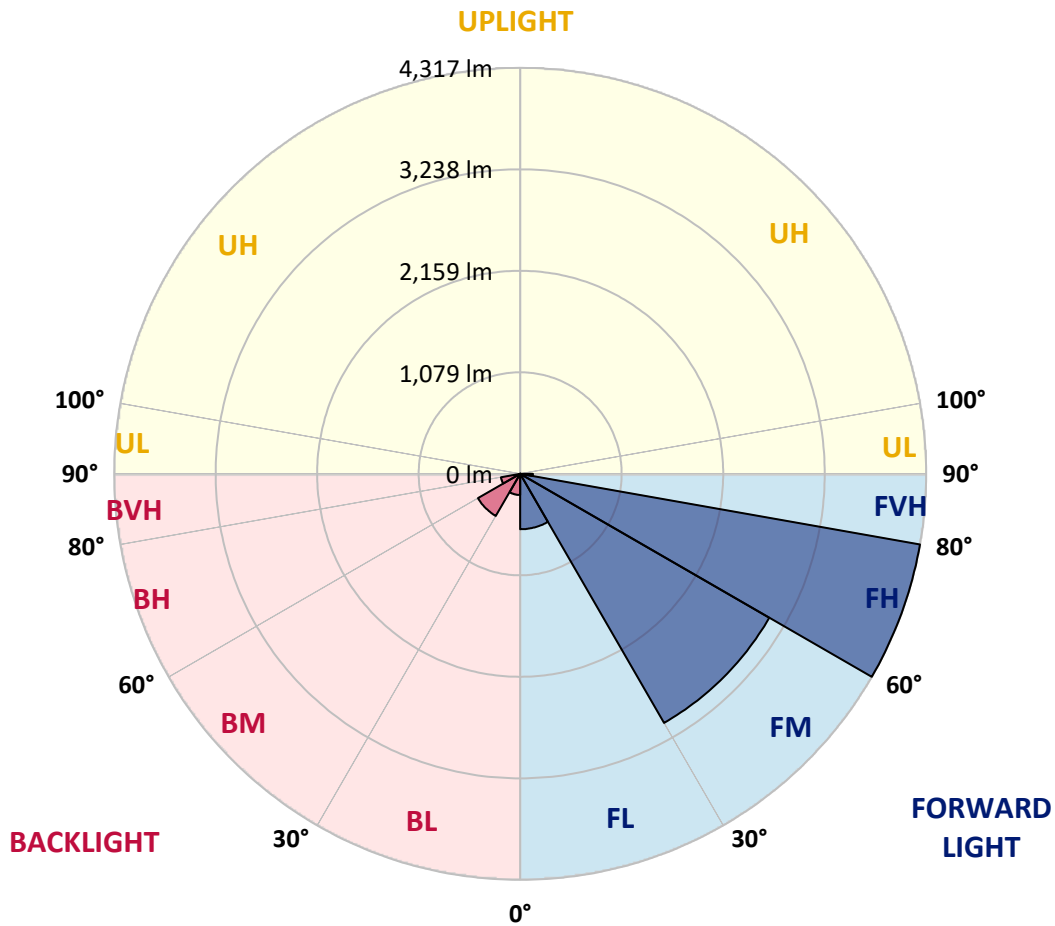
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	589.7	6.5			
FM (30°-60°)	3058.6	33.8			
FH (60°-80°)	4317.1	47.7			G2/5000
FVH (80°-90°)	136.4	1.5			G2/225
BL (0°-30°)	225.3	2.5	B1/500		
BM (30°-60°)	517.3	5.7	B1/1000		
BH (60°-80°)	207.4	2.3	B1/500		G1/500
BVH (80°-90°)	1.2	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°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8
2.5°	1083.2	1085.1	1083.8	1076.4	1064.1	1057.3	1053.6	1041.2	1033.2	1019.0
5°	1182.7	1190.1	1185.8	1171.0	1147.5	1130.8	1125.9	1100.5	1077.7	1051.1
7.5°	1288.4	1292.1	1284.1	1264.9	1233.4	1205.0	1200.6	1165.4	1129.0	1088.2
10°	1379.8	1384.2	1371.8	1344.0	1308.2	1272.9	1266.8	1227.8	1184.6	1134.5
12.5°	1456.5	1460.8	1444.7	1411.3	1371.8	1335.3	1329.2	1288.4	1240.8	1185.2
15°	1514.5	1522.6	1500.9	1465.1	1422.5	1386.0	1382.9	1342.8	1296.4	1234.6
17.5°	1548.5	1556.6	1536.2	1492.9	1456.5	1425.6	1421.9	1388.5	1345.2	1285.9
20°	1554.1	1561.5	1539.9	1502.2	1471.9	1447.2	1445.3	1421.2	1389.7	1332.9
22.5°	1537.4	1546.7	1526.9	1496.6	1475.6	1462.6	1460.2	1446.6	1428.7	1380.5
25°	1520.1	1527.5	1512.7	1486.1	1475.0	1473.8	1475.6	1473.1	1469.4	1428.7
27.5°	1518.9	1526.9	1510.2	1484.9	1478.7	1491.7	1493.5	1505.3	1508.4	1472.5
30°	1529.4	1534.9	1518.9	1492.3	1489.2	1518.9	1519.5	1540.5	1545.4	1509.6
32.5°	1552.2	1558.4	1542.3	1503.4	1499.1	1540.5	1542.3	1570.2	1578.2	1549.1
35°	1606.0	1613.4	1594.9	1534.3	1518.9	1560.9	1566.4	1599.2	1615.3	1591.2
37.5°	1740.1	1718.5	1693.1	1596.7	1564.0	1593.0	1602.3	1640.6	1669.0	1641.2
40°	2073.2	2005.2	1926.1	1703.0	1643.1	1661.6	1669.0	1707.3	1746.3	1719.1
42.5°	2573.1	2492.7	2365.4	1947.7	1762.3	1771.6	1777.2	1810.5	1865.5	1843.9
45°	3018.6	2989.5	2859.8	2365.4	1985.4	1939.7	1946.5	1963.8	2044.7	2036.7
47.5°	3360.9	3344.2	3244.1	2844.9	2362.3	2145.4	2164.6	2172.6	2289.4	2317.9
50°	3624.2	3618.0	3528.4	3271.3	2854.8	2448.9	2455.6	2438.3	2613.2	2683.7
52.5°	3872.6	3893.6	3827.4	3667.4	3380.7	2846.2	2844.9	2763.4	2999.4	3105.7
55°	4096.9	4104.3	4111.1	4071.5	3909.6	3298.5	3286.8	3153.3	3447.4	3557.4
57.5°	4307.6	4310.7	4371.2	4452.2	4460.2	3784.2	3762.6	3602.5	3936.8	4015.3
60°	4449.1	4463.3	4591.2	4816.1	4914.4	4285.3	4273.6	4110.5	4434.9	4471.3
62.5°	4245.2	4331.7	4654.2	5100.4	5343.2	4840.9	4835.3	4682.0	4958.9	4929.2
65°	3436.3	3582.8	4150.0	5292.6	5764.0	5461.3	5469.3	5306.2	5497.1	5400.7
67.5°	2403.7	2558.2	3229.3	5308.0	6234.3	6189.8	6236.1	5980.3	6068.7	5852.4
70°	1662.2	1741.9	2178.8	4975.6	6600.7	7193.3	7192.1	6808.3	6637.2	6058.2
72.5°	1117.8	1159.2	1415.1	3947.3	6331.3	7789.6	7753.8	7441.1	6828.7	5665.8
75°	471.5	501.8	655.0	2218.4	5008.9	7126.6	7029.6	6576.0	6067.4	4461.4
77.5°	149.5	162.5	258.3	794.0	2759.1	5356.8	5254.2	4106.8	4066.6	2238.1
80°	71.1	82.8	145.2	318.9	1085.7	2913.5	2899.3	1863.1	1749.4	604.3
82.5°	30.9	36.5	80.3	170.5	485.7	1039.4	1060.4	634.0	524.6	229.3
85°	9.9	13.0	37.1	78.5	205.2	258.3	255.2	150.8	211.3	124.8
87.5°	0.0	0.0	12.4	17.9	21.0	14.8	16.7	13.0	58.7	34.6
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°
991.8	0°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8
1004.1	2.5°	996.7	986.8	969.5	953.5	939.3	925.0	916.4	904.0	902.8	902.8
1020.2	5°	1003.5	987.4	956.6	923.8	886.1	850.3	814.4	779.8	768.7	760.7
1046.2	7.5°	1023.3	998.0	949.1	886.7	815.0	736.6	681.6	622.3	599.4	587.0
1080.8	10°	1051.7	1017.1	943.0	833.6	717.4	610.5	532.0	467.8	443.1	432.6
1118.5	12.5°	1083.2	1040.6	931.8	767.5	610.5	482.6	406.0	376.3	372.6	372.6
1163.6	15°	1120.9	1069.0	912.7	689.6	498.7	381.9	354.7	355.9	359.6	362.1
1207.4	17.5°	1159.9	1099.3	882.4	602.5	399.8	343.6	344.2	346.0	349.1	351.6
1255.0	20°	1201.9	1129.6	842.2	509.8	343.0	332.4	334.3	336.2	338.6	339.9
1299.5	22.5°	1247.0	1158.0	794.7	419.0	323.8	323.2	323.8	325.6	328.7	328.7
1351.4	25°	1295.2	1189.5	740.3	352.8	313.9	313.9	315.1	316.4	318.9	318.9
1401.5	27.5°	1344.6	1218.6	682.8	318.2	305.3	304.6	304.6	306.5	307.7	308.3
1450.9	30°	1399.0	1252.5	625.3	310.8	298.5	295.4	293.5	294.8	296.0	296.6
1502.8	32.5°	1454.6	1285.3	574.1	313.9	291.7	286.1	279.9	278.7	278.7	281.2
1556.6	35°	1516.4	1321.1	534.5	324.4	288.0	272.5	262.6	257.1	257.7	261.4
1620.8	37.5°	1590.5	1364.4	505.5	333.7	285.5	257.1	241.0	234.2	229.9	234.2
1709.2	40°	1687.6	1428.0	484.5	341.1	282.4	239.1	217.5	206.4	198.4	200.8
1846.4	42.5°	1830.3	1528.1	476.4	341.7	275.6	218.1	193.4	178.6	166.8	167.5
2052.8	45°	2030.5	1686.3	517.8	333.7	260.8	195.3	168.1	148.3	140.9	139.0
2361.1	47.5°	2304.9	1916.8	613.6	317.0	239.1	173.0	143.4	126.7	121.1	118.0
2765.8	50°	2672.5	2212.8	719.9	298.5	217.5	152.0	123.0	112.5	108.8	105.7
3246.0	52.5°	3098.9	2513.1	807.0	279.9	195.9	133.5	110.0	103.8	100.7	98.3
3709.4	55°	3490.1	2720.1	802.1	260.1	174.9	118.6	100.7	97.0	93.3	90.8
4108.6	57.5°	3733.5	2749.2	661.2	238.5	150.8	106.9	92.1	89.6	85.3	82.2
4454.0	60°	3845.4	2583.6	463.4	210.1	126.7	95.8	82.8	81.6	76.0	71.7
4780.9	62.5°	3865.8	2275.8	309.0	174.9	105.7	85.3	73.5	71.7	64.3	56.8
5046.6	65°	3783.0	1835.9	213.8	136.6	90.2	74.2	63.0	59.3	51.3	43.9
5109.7	67.5°	3521.0	1289.0	148.9	98.3	76.6	58.7	50.1	48.8	42.6	36.5
4788.3	70°	3040.8	734.7	99.5	73.5	60.6	40.2	39.5	40.8	34.6	29.7
3912.1	72.5°	2331.4	336.2	61.8	53.8	41.4	27.2	31.5	32.1	26.6	22.2
2440.8	75°	1372.4	144.0	38.9	34.6	21.0	17.9	22.9	23.5	17.9	14.2
892.3	77.5°	467.2	54.4	24.7	20.4	10.5	9.9	14.8	14.8	9.9	5.6
179.2	80°	106.3	20.4	12.4	8.0	4.9	4.3	4.9	4.3	2.5	0.6
55.0	82.5°	30.3	8.0	4.9	3.1	1.9	1.9	0.6	0.0	0.0	0.0
19.2	85°	8.7	3.7	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
6.8	87.5°	3.7	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>
991.8
905.9
764.4
588.9
432.6
372.6
362.1
351.6
340.5
330.0
319.5
309.0
297.8
283.0
263.2
233.0
199.6
165.0
136.6
116.2
105.0
97.6
89.6
81.6
70.4
53.1
41.4
34.6
27.2
19.8
12.4
4.3
0.0
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