

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: P938769

Luminaire Tested: **GALN-SB1A-750-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938769  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-750-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

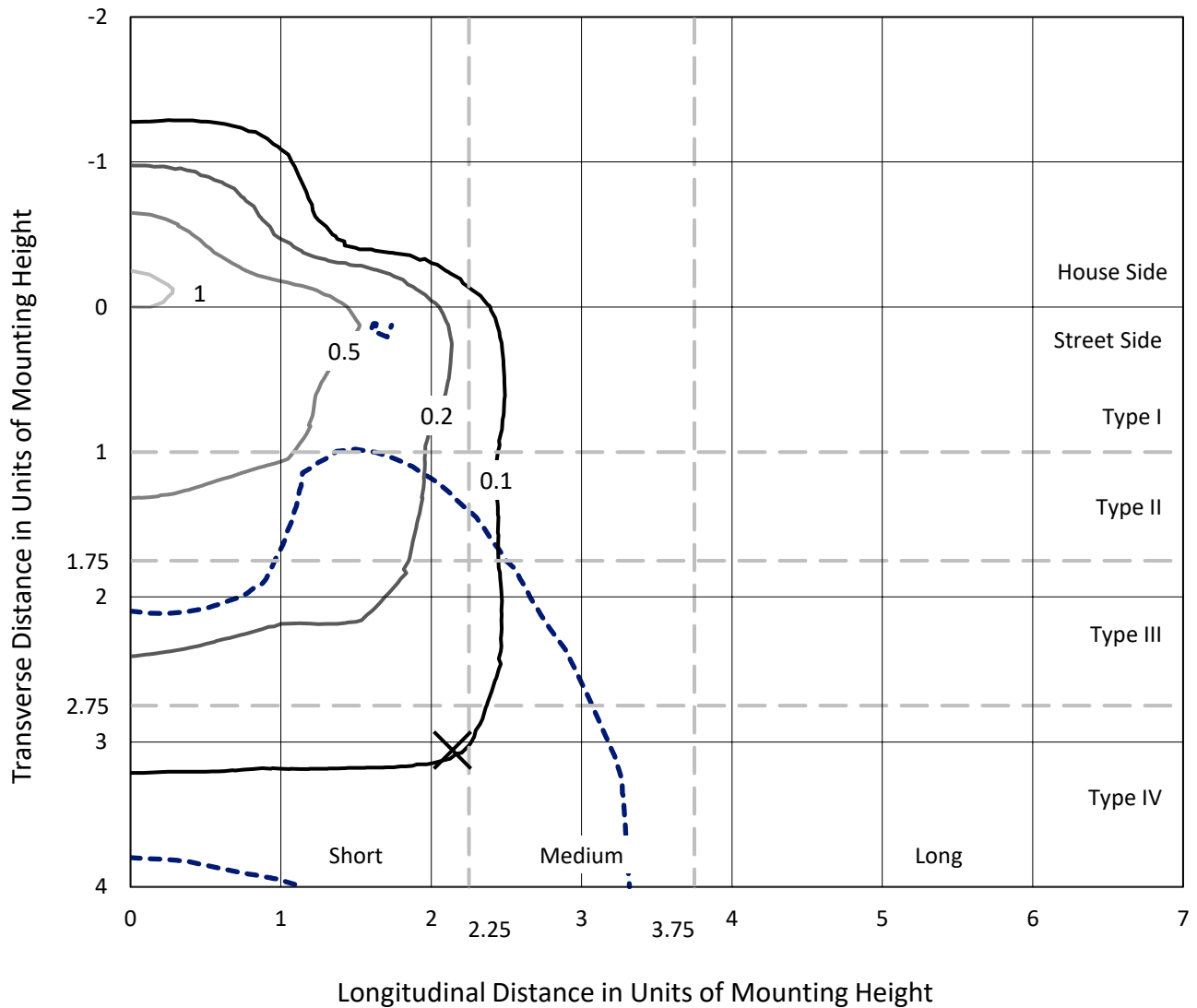
Lumens per Lamp: N/A  
Luminaire Lumens: 4692 lumens  
Efficiency: N/A  
Efficacy: 151.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

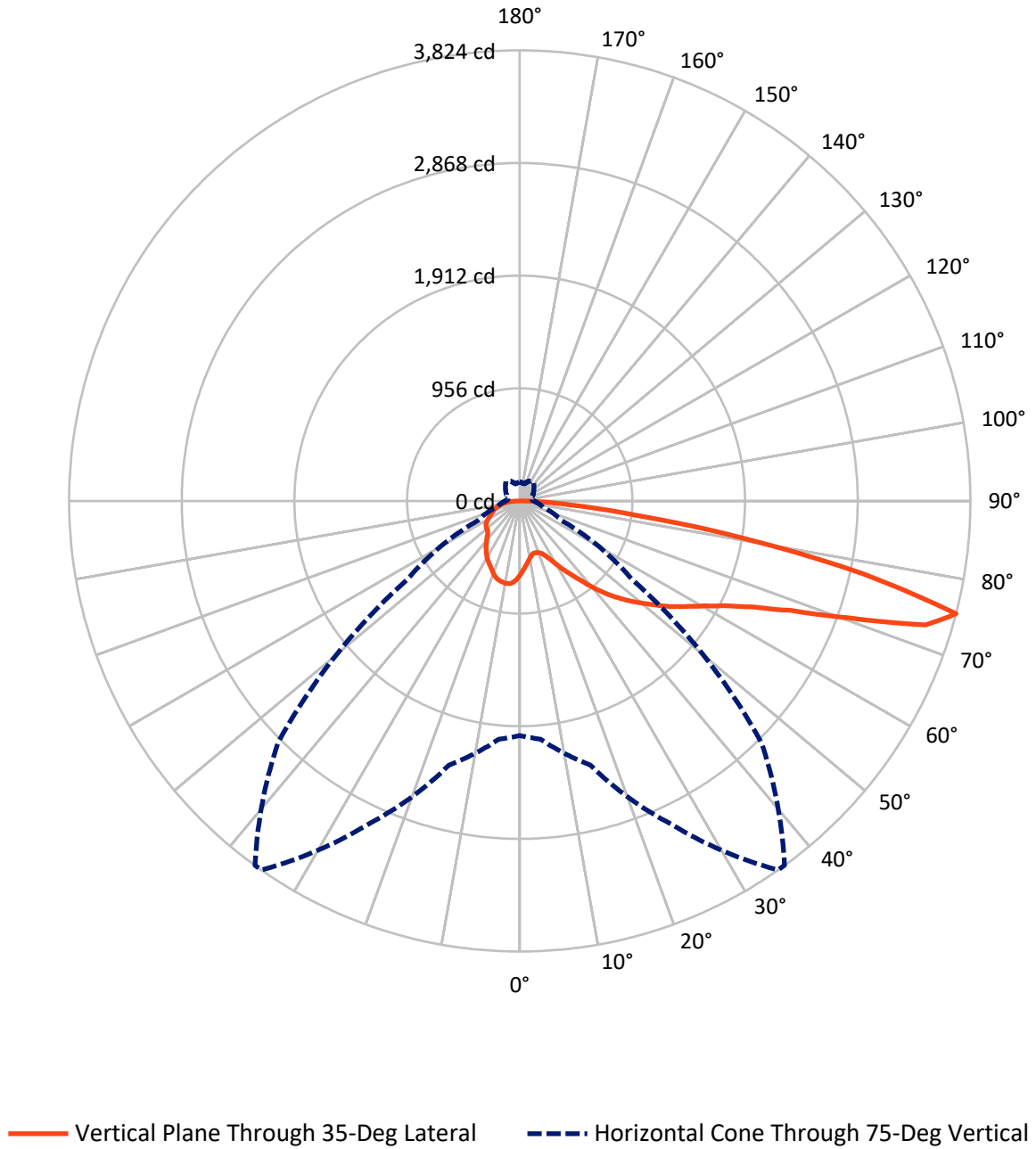
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1116.6	0.0	1116.6
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	3575.4	0.0	3575.4
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	4692.0	0.0	4692.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.2	1.3
10°-20°	170.8	3.6
20°-30°	286.7	6.1
30°-40°	445.6	9.5
40°-50°	661.4	14.1
50°-60°	913.1	19.5
60°-70°	1107.9	23.6
70°-80°	915.6	19.5
80°-90°	131.7	2.8
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°	4692.0	100.0
0°-180°	4692.0	100.0

**Coefficient of Utilization**



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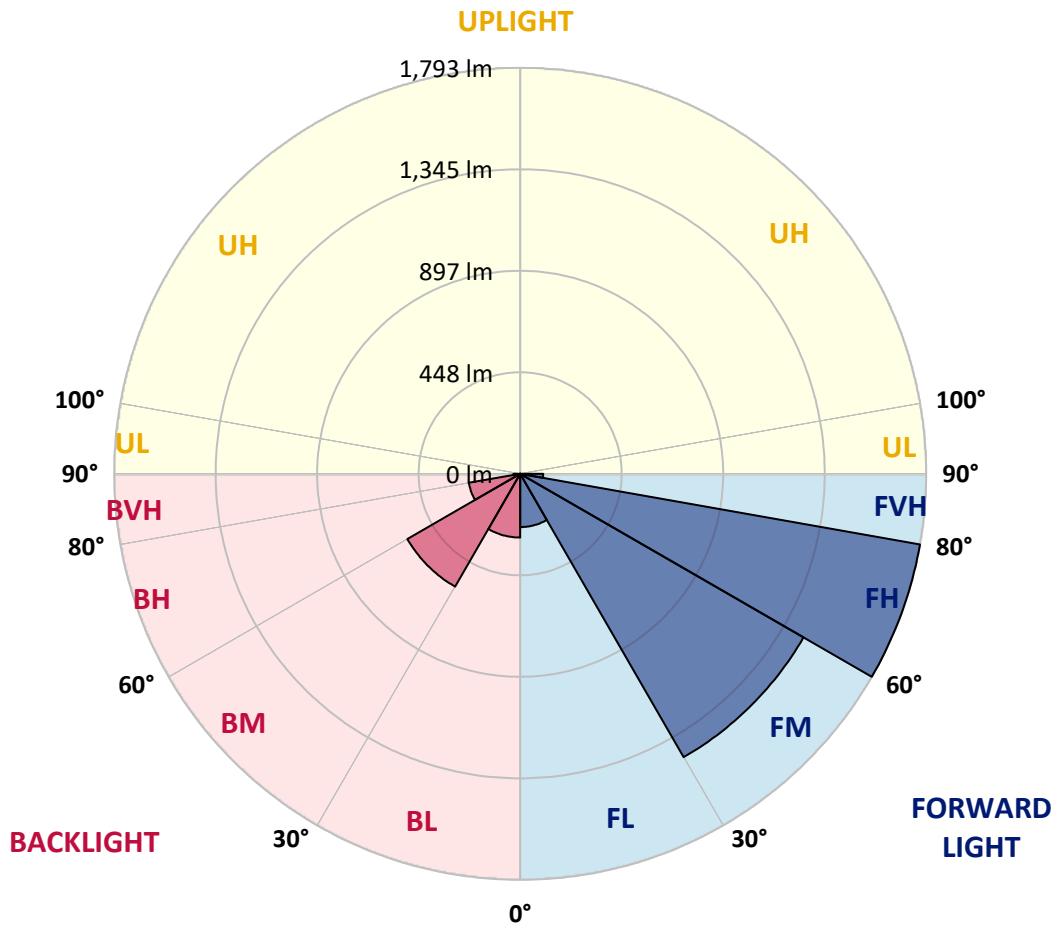
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.3	5.0			
FM (30°-60°)	1444.9	30.8			
FH (60°-80°)	1793.2	38.2			G1/1800
FVH (80°-90°)	102.0	2.2			G2/225
BL (0°-30°)	281.4	6.0	B1/500		
BM (30°-60°)	575.3	12.3	B1/1000		
BH (60°-80°)	230.2	4.9	B1/500		G1/500
BVH (80°-90°)	29.6	0.6			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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2
2.5°	576.5	580.1	581.6	580.9	584.7	584.1	589.5	596.1	605.2	614.1
5°	532.2	536.0	539.3	542.3	549.7	551.9	560.3	573.0	589.7	606.7
7.5°	490.8	494.1	499.2	504.8	517.2	519.5	533.4	553.2	576.5	601.4
10°	457.1	460.4	465.7	472.0	487.5	490.3	508.1	534.4	564.9	596.3
12.5°	442.6	443.6	446.7	453.0	466.5	468.2	487.8	517.9	553.5	592.5
15°	441.9	443.9	444.1	447.4	458.6	459.4	477.4	507.3	546.4	591.8
17.5°	449.5	451.0	448.7	450.7	460.1	461.4	475.6	502.2	544.1	595.1
20°	469.8	471.0	464.2	461.4	468.2	469.2	483.2	505.5	546.4	601.9
22.5°	512.9	513.6	496.9	485.5	486.0	486.5	498.7	519.0	555.2	614.3
25°	580.1	579.6	553.0	530.9	518.2	515.4	523.5	540.8	570.2	630.8
27.5°	658.7	654.9	628.3	595.3	567.7	563.6	561.8	569.2	591.5	652.6
30°	747.5	743.9	715.3	672.2	633.9	627.3	610.5	606.7	623.2	682.3
32.5°	844.9	842.6	808.4	756.1	704.9	697.3	669.1	659.0	671.9	727.2
35°	926.6	924.5	896.1	842.4	779.7	770.3	741.7	730.3	736.8	784.8
37.5°	1000.4	999.4	975.0	932.7	868.0	856.6	824.4	820.5	819.3	860.6
40°	1068.9	1066.3	1041.0	1018.6	970.7	960.3	931.9	928.6	919.0	954.0
42.5°	1144.7	1138.1	1101.3	1090.9	1078.0	1069.4	1052.4	1052.9	1031.6	1059.2
45°	1206.6	1202.8	1165.0	1158.9	1172.9	1169.3	1184.0	1187.8	1146.5	1169.6
47.5°	1273.1	1269.5	1237.5	1233.2	1271.0	1272.0	1324.0	1325.3	1258.6	1284.2
50°	1355.0	1349.9	1318.2	1323.5	1365.9	1369.7	1464.8	1456.2	1361.8	1400.6
52.5°	1409.0	1412.1	1405.2	1413.8	1471.7	1475.2	1603.3	1581.2	1464.1	1515.5
55°	1448.8	1454.9	1476.2	1496.0	1583.3	1586.8	1733.9	1700.2	1548.8	1622.1
57.5°	1500.1	1491.4	1531.3	1569.8	1689.3	1698.7	1861.0	1814.8	1623.9	1713.9
60°	1573.6	1567.5	1598.5	1655.6	1808.0	1823.0	1995.4	1918.1	1678.9	1786.7
62.5°	1722.8	1707.6	1712.4	1762.8	1957.7	1977.4	2147.1	2008.1	1706.3	1815.1
65°	1945.7	1919.6	1895.3	1930.3	2168.4	2188.0	2318.3	2078.9	1696.1	1760.1
67.5°	2226.5	2200.6	2170.7	2203.7	2478.9	2494.4	2529.6	2118.7	1616.2	1548.0
70°	2458.1	2448.5	2484.2	2619.9	2974.8	2975.3	2800.5	2085.7	1397.3	1097.5
72.5°	2427.4	2421.6	2610.0	3029.6	3599.8	3586.3	3057.0	1836.2	941.3	495.1
75°	1991.4	2029.2	2321.1	3022.2	3824.2	3822.5	2900.0	1167.3	389.3	205.2
77.5°	1067.9	1127.7	1506.9	2231.3	2985.4	3030.3	2038.8	408.4	167.2	131.4
80°	348.3	400.5	600.6	1136.1	1939.9	1931.5	873.8	160.3	114.4	93.1
82.5°	147.9	154.0	268.4	536.5	995.6	980.1	278.3	92.1	80.4	63.7
85°	57.8	64.7	118.5	248.1	431.2	421.8	100.4	45.7	51.5	41.6
87.5°	19.0	23.1	42.4	85.0	134.2	129.4	24.6	15.7	22.3	19.0
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°
625.2	0°	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2
627.0	2.5°	630.6	634.6	639.4	646.5	652.6	657.7	663.0	666.3	667.6	671.4
628.0	5°	635.1	644.0	655.9	667.6	679.0	685.9	691.9	695.0	697.8	699.8
630.8	7.5°	642.7	654.2	672.9	688.1	697.8	703.4	707.4	706.4	707.4	707.9
633.9	10°	649.3	665.3	687.6	702.1	709.5	709.7	708.7	705.1	703.4	703.6
638.4	12.5°	657.2	675.0	699.1	711.2	713.3	707.7	703.4	697.3	695.0	694.0
645.3	15°	667.9	688.1	711.5	716.0	711.0	703.9	696.5	686.6	681.6	677.5
656.9	17.5°	680.8	703.1	721.1	717.8	706.9	695.2	683.3	668.4	658.0	653.6
672.9	20°	698.8	718.8	728.5	714.0	697.5	679.8	659.5	641.2	631.6	627.3
693.2	22.5°	720.6	739.9	735.6	707.4	684.1	655.7	630.3	616.9	612.1	609.0
719.3	25°	746.7	763.2	740.7	697.8	662.0	623.7	604.2	599.9	597.6	595.3
751.3	27.5°	780.7	789.6	744.5	683.6	627.5	589.7	582.6	583.4	582.6	578.8
795.7	30°	825.6	823.8	748.0	660.5	588.0	559.0	559.5	562.8	563.4	560.8
857.6	32.5°	884.7	866.7	749.8	630.6	550.2	532.2	532.7	536.2	538.7	534.4
938.5	35°	956.3	916.7	747.0	593.0	521.0	506.5	502.7	503.7	504.5	500.4
1036.7	37.5°	1039.7	972.7	734.6	551.4	496.9	481.4	473.3	466.5	462.4	458.6
1147.8	40°	1131.3	1033.9	711.7	510.8	470.0	454.8	442.6	429.7	416.0	410.9
1265.4	42.5°	1227.1	1096.8	684.1	472.0	439.1	426.6	413.7	394.9	374.4	364.0
1387.7	45°	1326.6	1161.2	656.9	433.7	407.4	402.0	387.1	364.5	342.2	329.0
1510.2	47.5°	1424.0	1222.1	617.1	395.2	377.7	383.5	371.8	351.0	326.2	305.4
1631.7	50°	1517.1	1279.1	551.9	356.1	353.6	377.9	366.8	336.8	308.4	281.8
1750.9	52.5°	1609.4	1325.3	468.5	320.6	340.6	376.4	360.2	327.2	292.5	264.6
1863.0	55°	1687.8	1349.2	388.1	290.2	321.9	363.5	352.3	315.8	269.9	240.2
1939.9	57.5°	1732.4	1329.9	321.1	260.2	296.0	342.2	338.9	291.4	243.0	220.2
1954.9	60°	1713.1	1251.7	266.3	234.1	271.4	319.1	315.5	267.3	222.4	200.9
1874.7	62.5°	1606.9	1102.9	223.0	211.3	249.1	295.5	292.2	248.8	206.7	185.9
1661.9	65°	1392.8	897.2	189.2	192.3	226.5	267.1	271.9	233.4	194.3	174.0
1285.7	67.5°	1062.3	649.8	162.8	175.8	204.4	239.2	253.1	222.2	183.9	164.6
743.9	70°	605.5	369.1	140.5	159.8	184.9	213.3	238.7	213.3	172.7	156.8
278.8	72.5°	229.6	169.4	121.5	143.8	166.1	191.5	222.7	199.4	159.8	147.9
144.1	75°	122.5	103.2	102.2	125.0	144.6	170.2	202.7	185.7	150.2	156.2
99.7	77.5°	83.4	73.1	85.5	107.0	121.0	146.6	181.4	164.9	130.1	129.6
69.0	80°	57.8	51.7	69.5	86.2	93.6	123.3	158.3	141.5	106.0	98.9
42.6	82.5°	34.7	33.7	52.0	64.4	66.2	95.1	131.1	118.7	86.7	75.6
25.4	85°	19.0	20.0	33.2	37.8	38.6	66.5	102.7	91.8	66.7	56.1
9.1	87.5°	5.3	6.8	12.2	15.0	18.5	34.5	61.1	54.5	33.5	23.3
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>
625.2
671.2
700.3
708.7
704.1
693.5
678.8
653.9
626.8
609.5
595.3
579.6
562.1
536.5
503.2
461.1
413.2
365.3
328.0
303.1
279.5
261.5
237.7
217.1
197.8
182.6
170.7
161.6
154.7
145.8
<i>161.3</i>
119.5
94.6
76.1
56.6
23.3
0.0

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