

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: P946419

Luminaire Tested: **GALN-SB2A-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2A-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7945 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

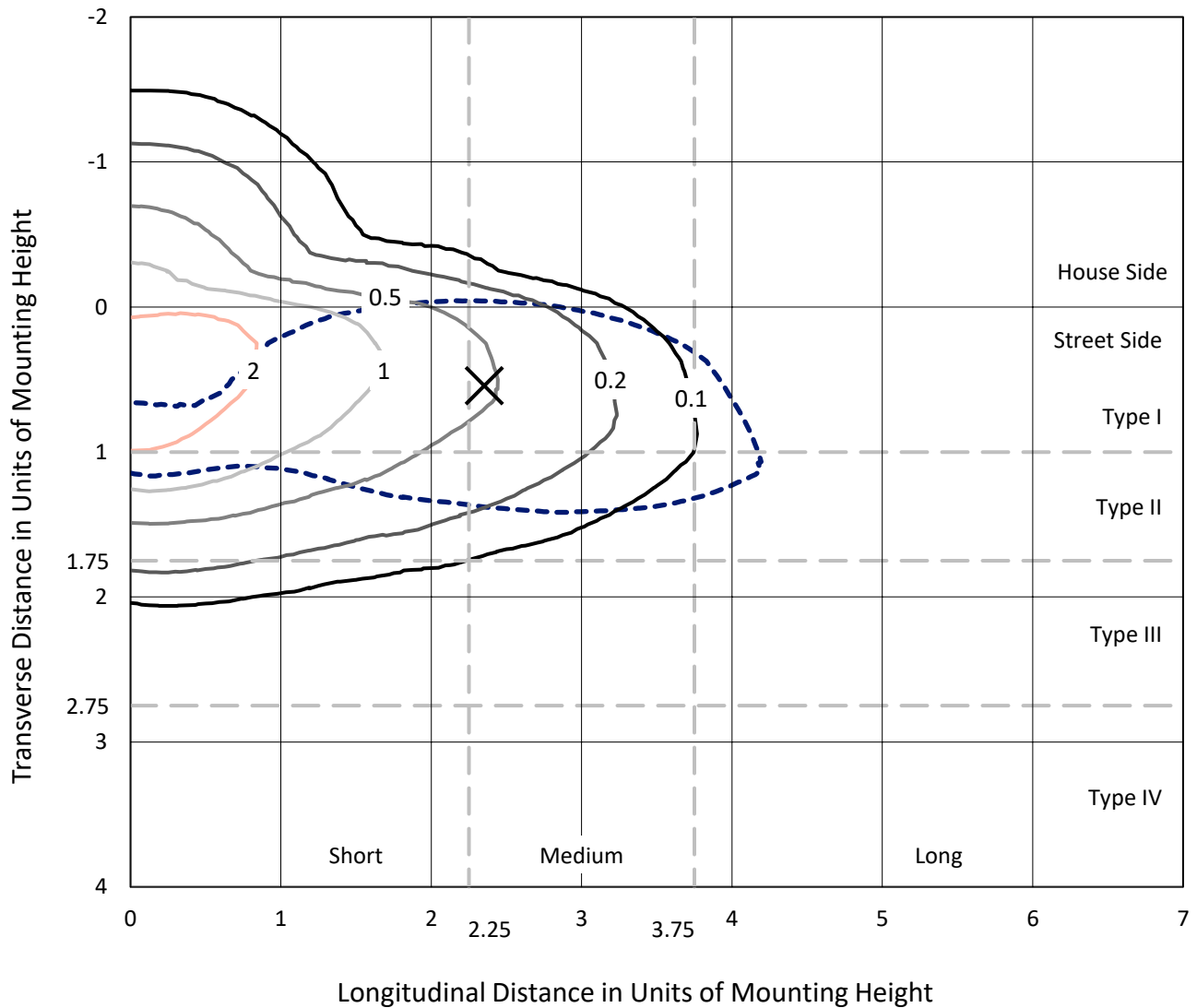
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

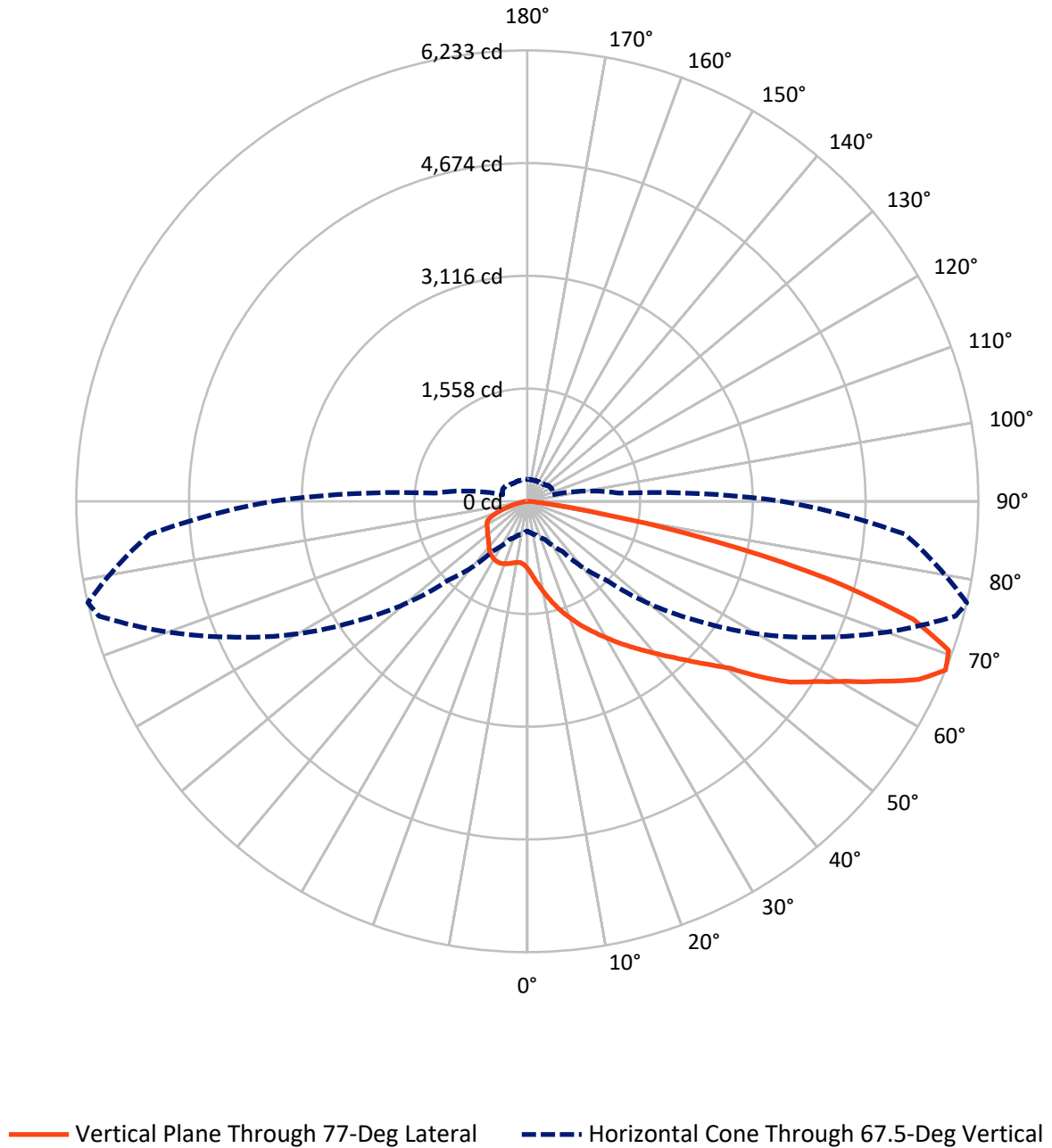
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1502.9	0.0	1502.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	6442.1	0.0	6442.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	7945.0	0.0	7945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.3
10°-20°	359.0	4.5
20°-30°	677.8	8.5
30°-40°	1091.9	13.7
40°-50°	1493.5	18.8
50°-60°	1684.7	21.2
60°-70°	1572.4	19.8
70°-80°	862.0	10.8
80°-90°	104.0	1.3
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°	7945.0	100.0
0°-180°	7945.0	100.0

Coefficient of Utilization



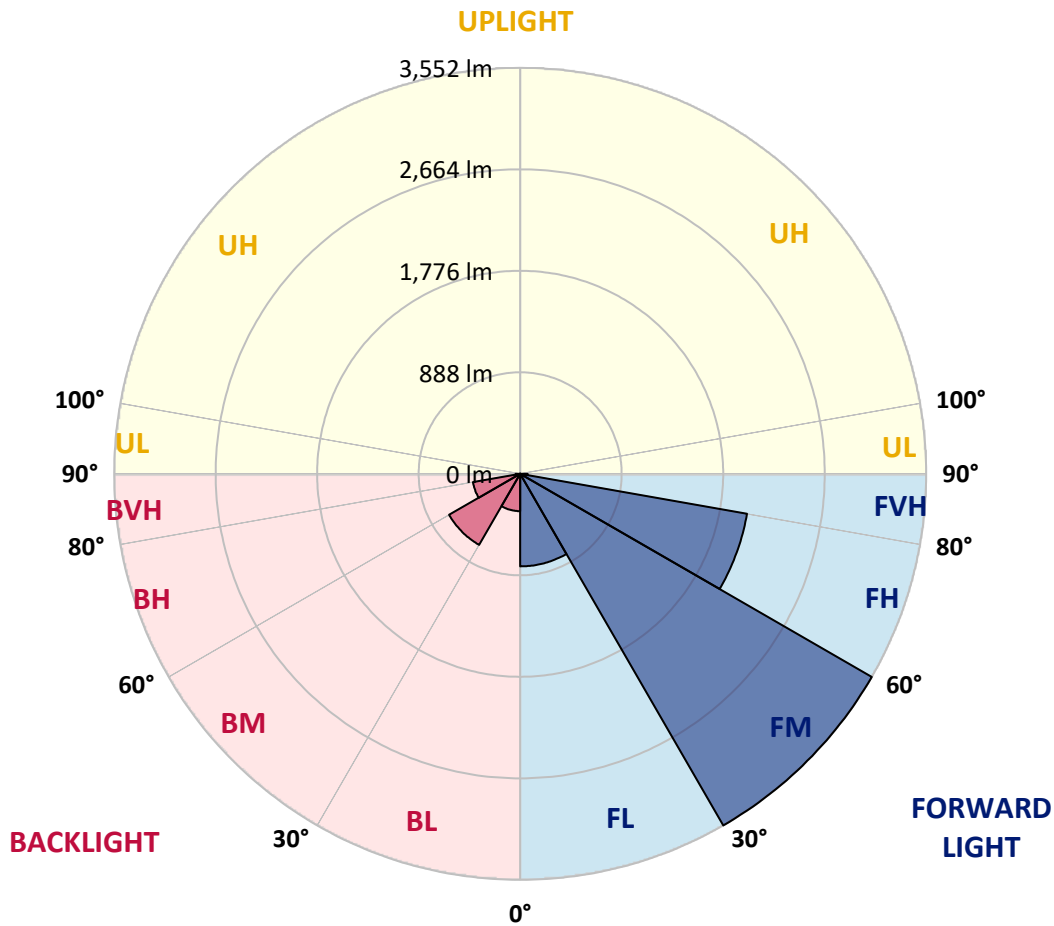
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.9	10.2			
FM (30°-60°)	3552.1	44.7			
FH (60°-80°)	2015.1	25.4			G2/5000
FVH (80°-90°)	65.0	0.8			G1/100
BL (0°-30°)	326.8	4.1	B1/500		
BM (30°-60°)	717.9	9.0	B1/1000		
BH (60°-80°)	419.3	5.3	B1/500		G1/500
BVH (80°-90°)	39.0	0.5			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°	77°
0°	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2
2.5°	1167.2	1175.4	1165.1	1165.1	1130.7	1112.6	1078.2	1051.9	1004.8	996.6
5°	1379.6	1389.9	1375.5	1369.4	1328.8	1291.5	1233.6	1176.6	1092.6	1083.9
7.5°	1544.1	1557.2	1544.5	1537.9	1501.8	1460.0	1392.3	1312.8	1194.3	1177.4
10°	1678.2	1680.2	1676.1	1678.6	1650.3	1615.9	1546.6	1453.9	1305.8	1282.8
12.5°	1754.1	1763.5	1771.7	1786.5	1781.5	1760.2	1697.9	1587.2	1423.9	1394.4
15°	1789.7	1806.2	1824.6	1858.6	1886.1	1891.5	1843.9	1730.3	1544.1	1508.4
17.5°	1802.5	1818.0	1847.2	1896.4	1955.4	1995.2	1973.9	1869.3	1663.0	1622.0
20°	1866.9	1871.4	1889.0	1935.8	1999.7	2065.8	2081.8	2003.0	1780.7	1734.4
22.5°	2004.7	1995.6	2000.5	2021.9	2067.8	2131.8	2168.3	2121.1	1901.7	1848.4
25°	2232.3	2206.0	2179.8	2155.2	2178.5	2214.6	2256.1	2239.2	2028.4	1960.8
27.5°	2519.8	2487.8	2429.9	2349.1	2320.9	2333.6	2352.0	2348.7	2145.7	2077.2
30°	2802.7	2765.4	2696.5	2579.6	2505.0	2471.4	2457.4	2448.0	2273.3	2200.3
32.5°	3028.7	2999.2	2931.5	2800.7	2692.4	2635.0	2588.7	2555.0	2406.6	2333.6
35°	3226.4	3198.9	3121.4	2978.7	2861.0	2799.9	2739.2	2667.4	2545.2	2471.4
37.5°	3406.8	3379.4	3273.1	3124.7	3006.2	2963.9	2909.8	2788.0	2684.2	2614.5
40°	3520.9	3514.7	3415.5	3247.3	3124.3	3103.4	3085.3	2927.8	2838.4	2773.6
42.5°	3550.0	3563.5	3484.8	3346.6	3229.3	3212.4	3254.7	3086.1	3011.5	2949.6
45°	3479.8	3518.8	3467.1	3373.2	3303.9	3294.9	3404.8	3259.2	3203.0	3146.4
47.5°	3302.3	3368.3	3347.0	3333.8	3324.0	3363.0	3536.8	3442.9	3420.0	3370.7
50°	2943.8	3068.9	3106.2	3189.1	3284.2	3415.9	3657.0	3643.5	3673.4	3623.8
52.5°	2324.1	2496.4	2712.9	2920.4	3162.0	3398.2	3789.1	3931.4	4057.7	4030.6
55°	1918.5	1996.0	2162.5	2543.1	2925.0	3324.0	3848.5	4163.9	4439.1	4414.9
57.5°	1606.8	1676.1	1778.7	2096.5	2566.5	3155.4	3885.4	4305.8	4700.3	4697.9
60°	1272.6	1346.0	1451.0	1676.1	2147.8	2864.3	3877.2	4467.4	5033.8	5054.3
62.5°	895.3	976.1	1092.6	1302.5	1720.0	2486.9	3709.9	4584.3	5426.3	5482.0
65°	588.5	641.8	729.6	910.9	1281.6	2001.8	3390.4	4599.5	5846.2	5940.5
67.5°	412.6	433.1	484.8	583.2	844.8	1535.1	2881.5	4442.4	6126.3	6232.5
70°	321.9	332.2	358.4	397.8	530.7	1032.3	2208.1	4033.9	6066.4	6177.2
72.5°	278.1	287.9	297.7	302.7	356.0	637.3	1495.7	3372.8	5502.5	5577.6
75°	252.2	254.7	262.9	261.2	271.5	413.4	863.3	2457.4	4341.5	4315.7
77.5°	212.0	215.3	228.8	226.8	241.1	282.6	448.3	1585.9	2814.6	2639.1
80°	179.6	181.3	196.0	193.6	209.6	204.6	228.8	808.3	1193.8	1011.3
82.5°	62.3	77.1	149.7	154.2	159.9	123.9	132.1	329.7	364.6	279.3
85°	30.3	32.4	76.3	108.3	107.9	62.3	64.4	117.7	114.8	90.2
87.5°	4.9	6.2	9.0	42.2	33.6	16.4	22.1	23.0	23.8	20.5
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°
932.2	0°	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2	932.2
965.4	2.5°	942.4	921.9	878.9	839.1	807.9	778.0	761.2	746.8	738.6	737.0
1010.5	5°	967.9	925.6	847.3	781.3	738.2	706.2	689.4	678.7	673.4	670.1
1071.2	7.5°	1004.4	942.4	830.9	755.8	710.7	687.8	679.2	677.5	677.1	677.5
1144.6	10°	1054.8	969.9	829.3	749.7	712.0	699.2	698.8	699.2	700.9	701.3
1224.6	12.5°	1109.4	998.2	835.8	755.0	727.5	720.6	719.3	718.9	720.2	721.0
1305.4	15°	1168.8	1035.5	846.9	766.5	744.8	737.4	736.2	733.7	733.3	732.9
1390.3	17.5°	1229.9	1072.5	859.2	778.8	755.8	745.6	741.1	735.3	730.8	729.6
1478.1	20°	1291.9	1109.0	867.8	785.0	756.7	742.3	733.3	723.4	715.7	711.1
1566.6	22.5°	1357.9	1147.1	873.1	783.3	749.3	729.6	713.2	701.7	689.8	682.0
1656.1	25°	1422.3	1180.3	872.7	774.7	734.9	709.9	689.0	674.2	657.8	649.6
1748.3	27.5°	1484.2	1210.3	862.5	759.5	714.4	686.5	661.5	643.9	627.9	620.1
1841.4	30°	1548.2	1235.3	846.5	737.4	690.2	659.5	632.0	616.8	602.5	595.1
1939.9	32.5°	1611.8	1258.2	823.9	709.9	662.3	632.8	605.7	591.8	583.2	583.2
2045.7	35°	1679.0	1274.2	794.0	677.9	632.8	604.5	583.2	575.0	574.2	569.2
2157.6	37.5°	1750.0	1284.5	757.5	645.1	603.7	577.0	570.5	560.6	552.4	541.8
2280.7	40°	1824.6	1294.7	713.6	611.1	572.9	558.2	555.3	542.2	518.8	492.6
2420.1	42.5°	1915.2	1301.7	668.1	577.0	540.5	535.6	539.7	517.2	479.8	460.2
2588.2	45°	2020.2	1313.2	626.2	543.4	507.3	507.3	524.5	495.0	464.3	451.9
2780.2	47.5°	2156.4	1339.9	587.3	506.5	476.6	484.8	490.9	468.4	451.1	436.0
3013.9	50°	2353.2	1403.8	547.1	469.2	453.2	469.6	461.0	447.8	427.8	415.4
3385.5	52.5°	2597.7	1441.6	511.4	435.5	433.1	449.5	437.2	424.9	409.7	393.3
3667.3	55°	2764.2	1448.5	481.5	410.9	419.5	417.9	413.4	402.3	394.1	372.4
3945.3	57.5°	2950.4	1462.5	456.9	396.2	410.9	392.9	391.3	381.8	371.2	356.4
4284.5	60°	3173.1	1484.2	435.5	390.4	403.6	376.5	368.3	364.6	353.9	346.5
4692.6	62.5°	3415.9	1503.9	413.8	391.3	394.9	360.5	348.2	347.0	340.4	337.9
5075.6	65°	3581.5	1450.2	386.7	390.4	381.4	344.1	328.5	328.1	322.8	321.9
5241.7	67.5°	3523.7	1280.0	350.2	378.9	367.5	327.7	310.5	308.8	301.8	302.3
5068.2	70°	3234.2	1037.2	299.8	350.6	350.2	312.9	291.6	286.3	276.8	278.5
4406.7	72.5°	2691.2	768.6	232.1	303.5	322.8	299.4	269.9	261.2	249.4	251.0
3253.0	75°	1943.5	522.5	169.0	230.9	280.9	283.4	248.5	233.8	219.4	221.9
1810.7	77.5°	994.5	296.1	124.3	159.1	220.6	257.6	229.3	209.6	206.3	229.3
522.1	80°	324.4	148.5	86.1	111.6	144.8	210.8	201.0	178.4	177.6	182.9
109.5	82.5°	96.8	62.7	55.4	73.4	80.0	161.6	173.5	134.9	116.1	122.2
36.5	85°	33.2	30.3	31.6	36.5	38.1	94.7	121.4	89.4	84.5	93.1
8.2	87.5°	7.8	10.7	9.0	8.2	8.2	23.0	47.2	37.3	51.7	34.4
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>
932.2
737.0
669.7
678.7
701.7
721.4
732.5
730.8
712.8
682.4
649.6
619.7
594.7
583.6
568.0
540.1
488.9
460.6
454.0
435.5
414.2
390.0
372.8
351.5
348.6
337.9
321.5
302.3
280.1
250.6
222.7
226.0
157.1
126.3
91.9
33.2
0.0

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