

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: P948288

Luminaire Tested: **GALN-SB3B-850-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948288  
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-SB3B-850-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

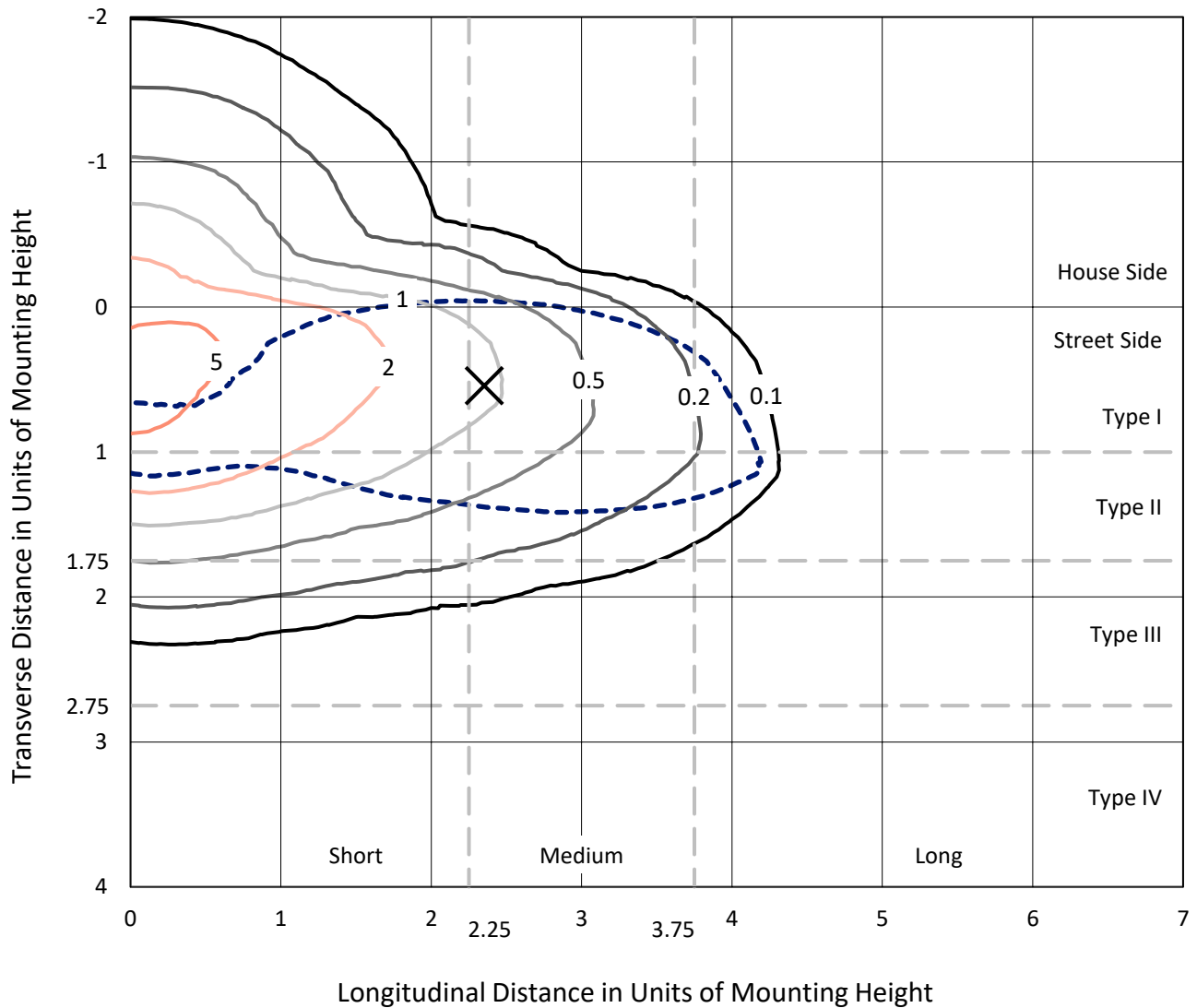
Lumens per Lamp: N/A  
Luminaire Lumens: 16460 lumens  
Efficiency: N/A  
Efficacy: 150.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

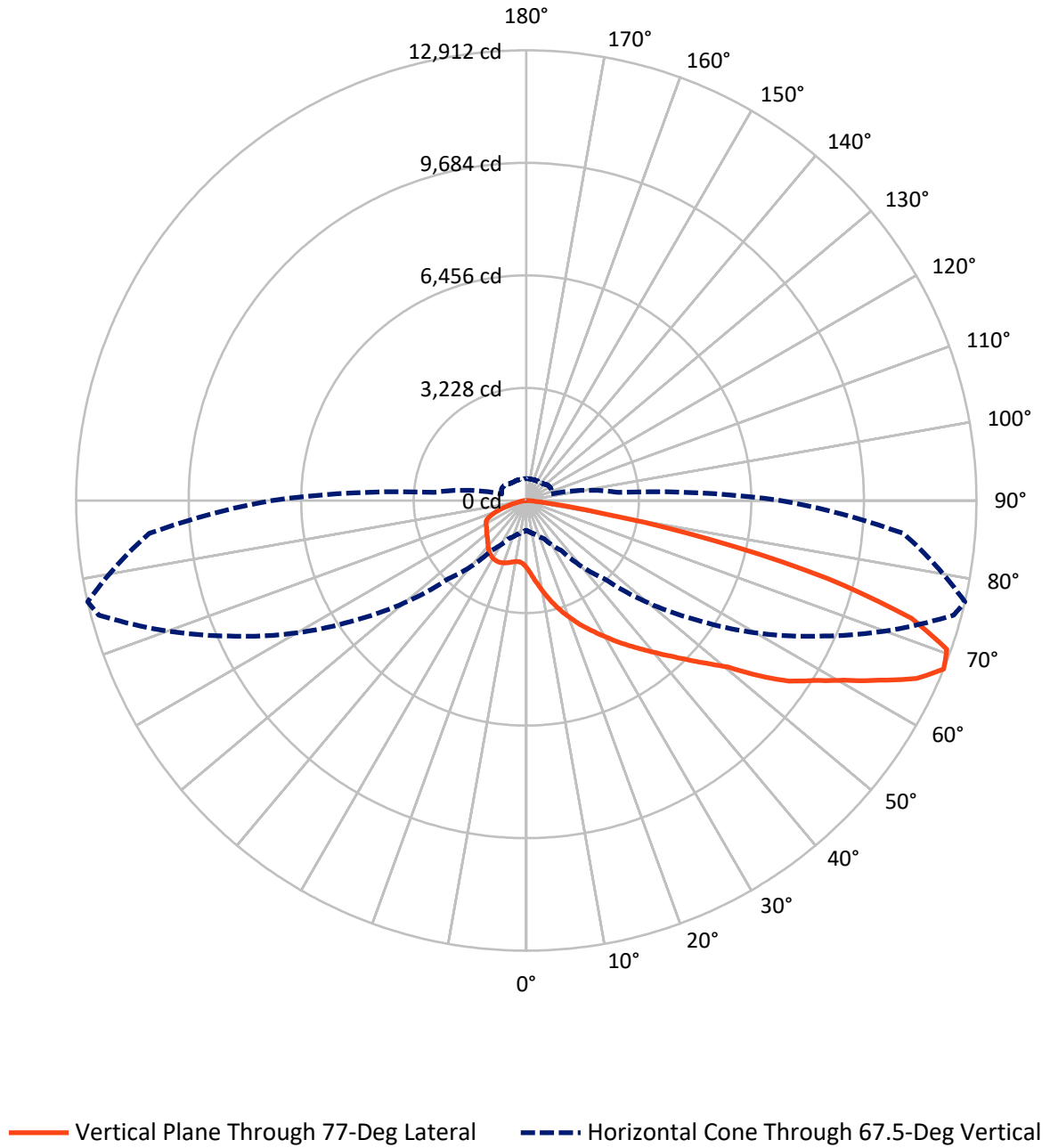
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3113.6	0.0	3113.6
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	13346.4	0.0	13346.4
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	16460.0	0.0	16460.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.0	1.3
10°-20°	743.7	4.5
20°-30°	1404.2	8.5
30°-40°	2262.1	13.7
40°-50°	3094.1	18.8
50°-60°	3490.2	21.2
60°-70°	3257.7	19.8
70°-80°	1785.7	10.8
80°-90°	215.4	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°	16460.0	100.0
0°-180°	16460.0	100.0

**Coefficient of Utilization**



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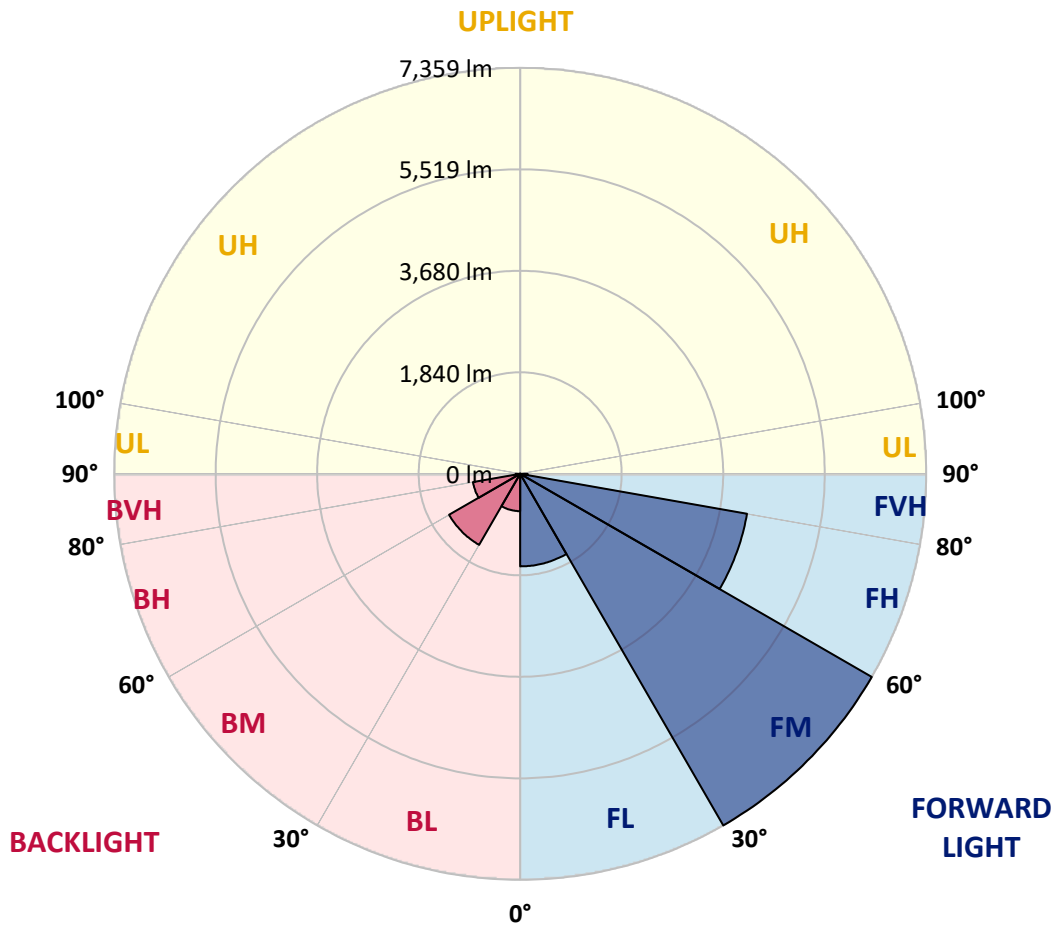
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1677.9	10.2			
FM (30°-60°)	7359.1	44.7			
FH (60°-80°)	4174.7	25.4			G2/5000
FVH (80°-90°)	134.7	0.8			G2/225
BL (0°-30°)	677.0	4.1	B2/1000		
BM (30°-60°)	1487.3	9.0	B2/2500		
BH (60°-80°)	868.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	80.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1931.3	1931.3	1931.3	1931.3	1931.3	1931.3	1931.3	1931.3	1931.3	1931.3
2.5°	2418.1	2435.1	2413.9	2413.9	2342.5	2305.1	2233.7	2179.4	2081.7	2064.7
5°	2858.2	2879.5	2849.7	2837.0	2752.9	2675.6	2555.8	2437.7	2263.5	2245.6
7.5°	3199.0	3226.1	3199.8	3186.2	3111.4	3024.8	2884.6	2719.8	2474.2	2439.4
10°	3476.8	3481.0	3472.5	3477.6	3419.0	3347.6	3204.1	3012.0	2705.3	2657.7
12.5°	3634.0	3653.5	3670.5	3701.1	3690.9	3646.7	3517.6	3288.2	2950.0	2888.8
15°	3707.9	3741.9	3780.1	3850.6	3907.6	3918.6	3820.1	3584.7	3199.0	3125.0
17.5°	3734.2	3766.5	3826.9	3928.8	4051.2	4133.6	4089.4	3872.7	3445.4	3360.4
20°	3867.6	3877.0	3913.5	4010.4	4142.9	4279.7	4312.9	4149.7	3689.2	3593.2
22.5°	4153.1	4134.4	4144.6	4188.8	4284.0	4416.5	4492.1	4394.4	3939.9	3829.4
25°	4624.7	4570.3	4515.9	4464.9	4513.4	4588.1	4674.0	4639.1	4202.4	4062.2
27.5°	5220.3	5154.0	5034.2	4866.8	4808.2	4834.5	4872.8	4866.0	4445.4	4303.5
30°	5806.6	5729.2	5586.5	5344.3	5189.7	5120.0	5091.1	5071.6	4709.6	4558.4
32.5°	6274.7	6213.5	6073.3	5802.3	5578.0	5459.0	5363.0	5293.4	4985.8	4834.5
35°	6684.2	6627.3	6466.7	6171.1	5927.2	5800.6	5674.9	5526.2	5273.0	5120.0
37.5°	7058.1	7001.2	6781.1	6473.5	6228.0	6140.5	6028.3	5776.0	5561.0	5416.6
40°	7294.3	7281.6	7075.9	6727.6	6472.7	6429.4	6392.0	6065.7	5880.5	5746.2
42.5°	7354.6	7382.7	7219.5	6933.2	6690.2	6655.4	6742.9	6393.7	6239.0	6110.7
45°	7209.3	7290.1	7183.0	6988.4	6844.8	6826.1	7053.8	6752.2	6635.8	6518.6
47.5°	6841.4	6978.2	6934.0	6906.9	6886.5	6967.2	7327.4	7132.9	7085.3	6983.3
50°	6098.8	6358.0	6435.3	6606.9	6804.0	7076.8	7576.4	7548.3	7610.4	7507.6
52.5°	4815.0	5171.9	5620.5	6050.4	6550.9	7040.3	7850.0	8144.8	8406.5	8350.4
55°	3974.7	4135.3	4480.2	5268.7	6059.8	6886.5	7973.2	8626.6	9196.7	9146.6
57.5°	3329.0	3472.5	3685.0	4343.4	5317.2	6537.3	8049.6	8920.5	9737.9	9732.8
60°	2636.5	2788.6	3006.1	3472.5	4449.7	5934.0	8032.7	9255.3	10428.7	10471.2
62.5°	1854.8	2022.2	2263.5	2698.5	3563.5	5152.3	7686.0	9497.5	11241.8	11357.4
65°	1219.3	1329.7	1511.5	1887.1	2655.2	4147.2	7024.1	9528.9	12111.9	12307.3
67.5°	854.8	897.2	1004.3	1208.2	1750.3	3180.3	5969.7	9203.5	12692.2	12912.2
70°	667.0	688.2	742.6	824.2	1099.5	2138.6	4574.6	8357.2	12568.1	12797.5
72.5°	576.1	596.5	616.9	627.0	737.5	1320.4	3098.7	6987.6	11399.8	11555.3
75°	522.5	527.6	544.6	541.2	562.5	856.5	1788.5	5091.1	8994.5	8940.9
77.5°	439.3	446.1	474.1	469.9	499.6	585.4	928.7	3285.6	5831.2	5467.5
80°	372.1	375.5	406.1	401.0	434.2	424.0	474.1	1674.7	2473.4	2095.3
82.5°	129.1	159.7	310.1	319.5	331.4	256.6	273.6	683.1	755.3	578.6
85°	62.9	67.1	158.0	224.3	223.5	129.1	133.4	243.9	237.9	186.9
87.5°	10.2	12.7	18.7	87.5	69.7	34.0	45.9	47.6	49.3	42.5
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°
1931.3	0°	1931.3	1931.3	1931.3	1931.3	1931.3	1931.3	1931.3	1931.3	1931.3	1931.3
2000.1	2.5°	1952.5	1910.0	1820.8	1738.4	1673.8	1611.8	1577.0	1547.2	1530.2	1526.8
2093.6	5°	2005.2	1917.7	1755.4	1618.6	1529.4	1463.1	1428.3	1406.2	1395.1	1388.3
2219.3	7.5°	2080.8	1952.5	1721.4	1565.9	1472.5	1424.9	1407.0	1403.6	1402.8	1403.6
2371.4	10°	2185.3	2009.4	1718.0	1553.2	1475.0	1448.7	1447.8	1448.7	1452.1	1452.9
2537.1	12.5°	2298.3	2068.1	1731.6	1564.2	1507.3	1492.8	1490.3	1489.4	1492.0	1493.7
2704.5	15°	2421.5	2145.4	1754.5	1588.0	1543.0	1527.7	1525.1	1520.0	1519.2	1518.3
2880.3	17.5°	2548.1	2221.9	1780.0	1613.5	1565.9	1544.7	1535.3	1523.4	1514.1	1511.5
3062.2	20°	2676.4	2297.5	1797.9	1626.2	1567.6	1537.9	1519.2	1498.8	1482.7	1473.3
3245.7	22.5°	2813.2	2376.5	1808.9	1622.8	1552.3	1511.5	1477.6	1453.8	1429.1	1413.0
3430.9	25°	2946.6	2445.3	1808.1	1605.0	1522.6	1470.8	1427.4	1396.8	1362.8	1345.9
3622.1	27.5°	3074.9	2507.3	1786.8	1573.6	1480.1	1422.3	1370.5	1334.0	1300.8	1284.7
3815.0	30°	3207.5	2559.2	1753.7	1527.7	1430.0	1366.2	1309.3	1277.9	1248.1	1232.9
4018.9	32.5°	3339.2	2606.7	1707.0	1470.8	1372.2	1311.0	1254.9	1226.1	1208.2	1208.2
4238.1	35°	3478.5	2639.9	1644.9	1404.5	1311.0	1252.4	1208.2	1191.2	1189.5	1179.3
4470.0	37.5°	3625.5	2661.1	1569.3	1336.5	1250.7	1195.5	1181.9	1161.5	1144.5	1122.4
4724.9	40°	3780.1	2682.4	1478.4	1266.0	1187.0	1156.4	1150.4	1123.2	1074.8	1020.4
5013.8	42.5°	3967.9	2696.8	1384.1	1195.5	1119.8	1109.7	1118.1	1071.4	994.1	953.3
5362.2	45°	4185.4	2720.6	1297.4	1125.8	1051.0	1051.0	1086.7	1025.5	961.8	936.3
5759.8	47.5°	4467.5	2775.8	1216.7	1049.3	987.3	1004.3	1017.0	970.3	934.6	903.2
6244.1	50°	4875.3	2908.4	1133.4	972.0	938.9	972.9	955.0	927.8	886.2	860.7
7013.9	52.5°	5381.7	2986.5	1059.5	902.3	897.2	931.2	905.7	880.2	848.8	814.8
7597.6	55°	5726.7	3001.0	997.5	851.4	869.2	865.8	856.5	833.5	816.5	771.5
8173.7	57.5°	6112.4	3029.9	946.5	820.8	851.4	814.0	810.6	791.0	768.9	738.4
8876.4	60°	6573.8	3074.9	902.3	808.9	836.1	780.0	763.0	755.3	733.3	718.0
9721.8	62.5°	7076.8	3115.7	857.3	810.6	818.2	746.8	721.4	718.8	705.2	700.1
10515.3	65°	7420.1	3004.4	801.2	808.9	790.2	712.9	680.6	679.7	668.7	667.0
10859.5	67.5°	7300.2	2651.8	725.6	785.1	761.3	678.9	643.2	639.8	625.3	626.2
10500.1	70°	6700.4	2148.8	621.1	726.5	725.6	648.3	604.1	593.1	573.5	576.9
9129.6	72.5°	5575.4	1592.3	480.9	628.7	668.7	620.2	559.1	541.2	516.6	520.0
6739.5	75°	4026.5	1082.5	350.1	478.4	582.0	587.1	514.9	484.3	454.6	459.7
3751.2	77.5°	2060.4	613.5	257.4	329.7	457.1	533.6	475.0	434.2	427.4	475.0
1081.6	80°	672.1	307.6	178.4	231.1	299.9	436.7	416.3	369.6	367.9	378.9
226.9	82.5°	200.5	130.0	114.7	152.1	165.7	334.8	359.4	279.5	240.5	253.2
75.6	85°	68.8	62.9	65.4	75.6	79.0	196.3	251.5	185.2	175.0	192.9
17.0	87.5°	16.1	22.1	18.7	17.0	17.0	47.6	97.7	77.3	107.1	71.4
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>
1931.3
1526.8
1387.5
1406.2
1453.8
1494.5
1517.5
1514.1
1476.7
1413.8
1345.9
1283.8
1232.0
1209.1
1176.8
1119.0
1012.8
954.2
940.6
902.3
858.2
808.0
772.3
728.2
722.2
700.1
666.1
626.2
580.3
519.1
461.4
468.2
325.4
261.7
190.3
68.8
0.0

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