

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: P944307

Luminaire Tested: **GALN-SB9A-940-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944307  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-940-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

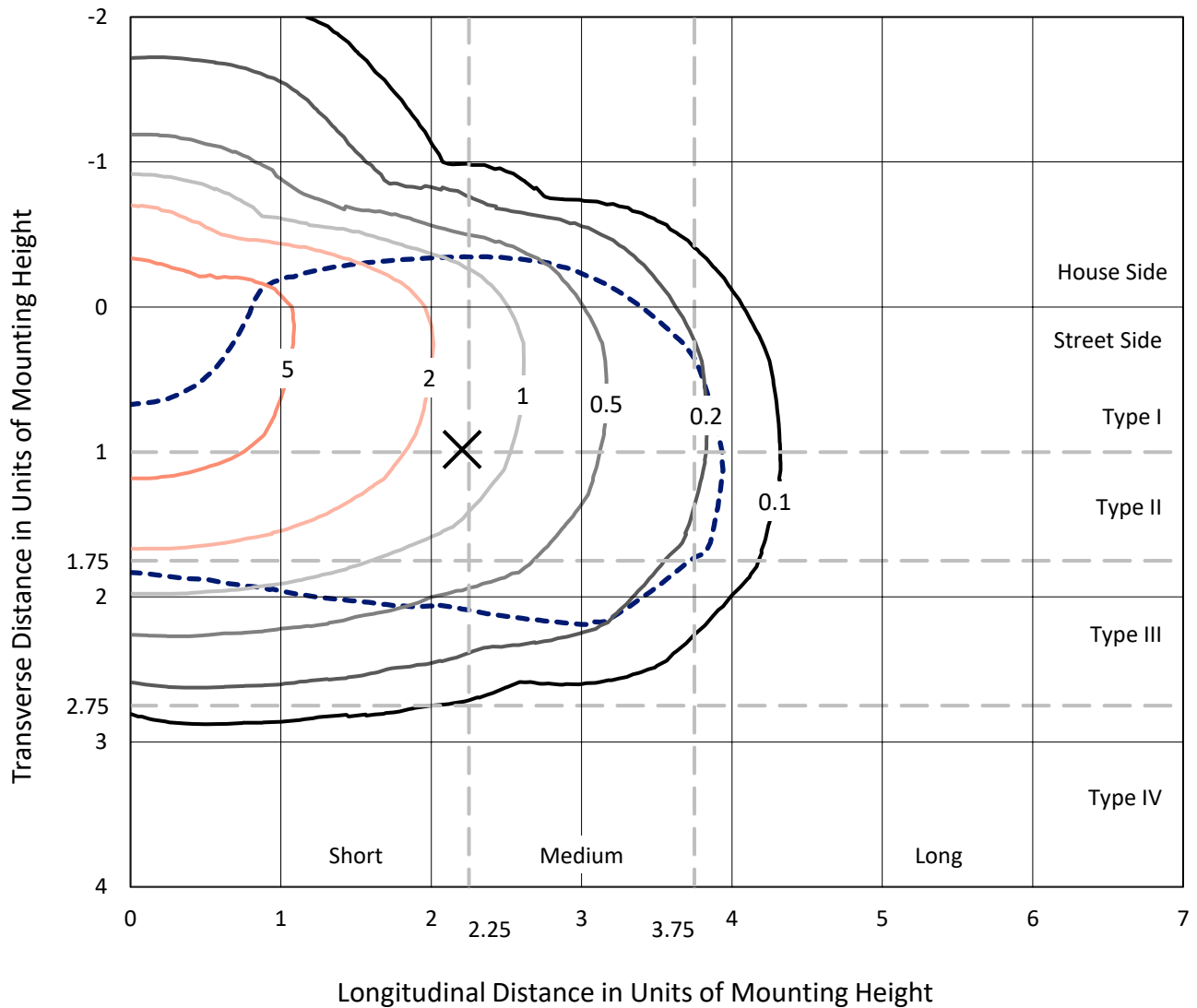
Lumens per Lamp: N/A  
Luminaire Lumens: 29627 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

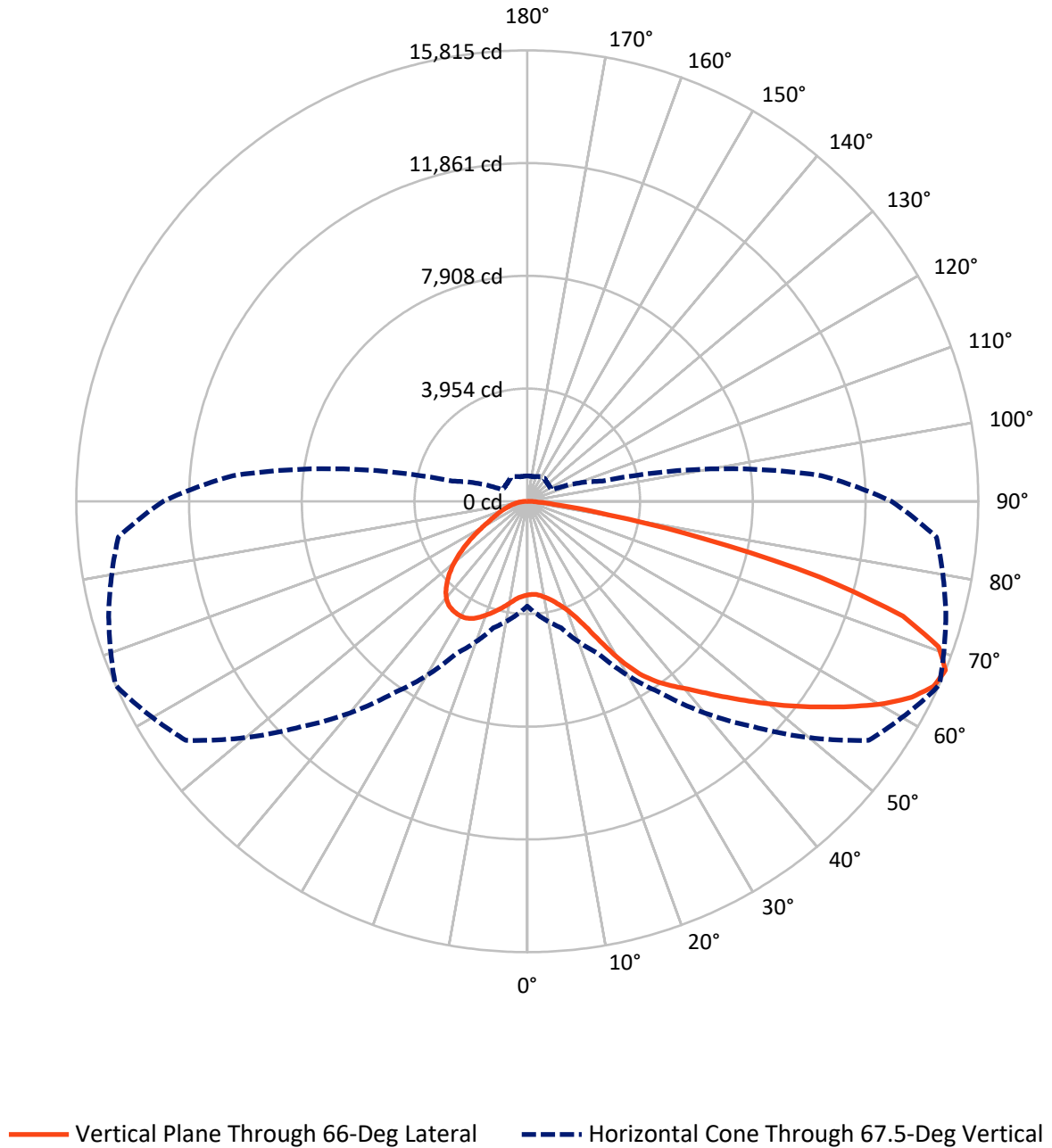
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - 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	7366.7	0.0	7366.7
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	22260.3	0.0	22260.3
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	29627.0	0.0	29627.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.8	1.1
10°-20°	1076.4	3.6
20°-30°	2074.7	7.0
30°-40°	3637.7	12.3
40°-50°	5408.0	18.3
50°-60°	6855.2	23.1
60°-70°	6707.7	22.6
70°-80°	3199.6	10.8
80°-90°	342.0	1.2
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°	29627.0	100.0
0°-180°	29627.0	100.0

**Coefficient of Utilization**



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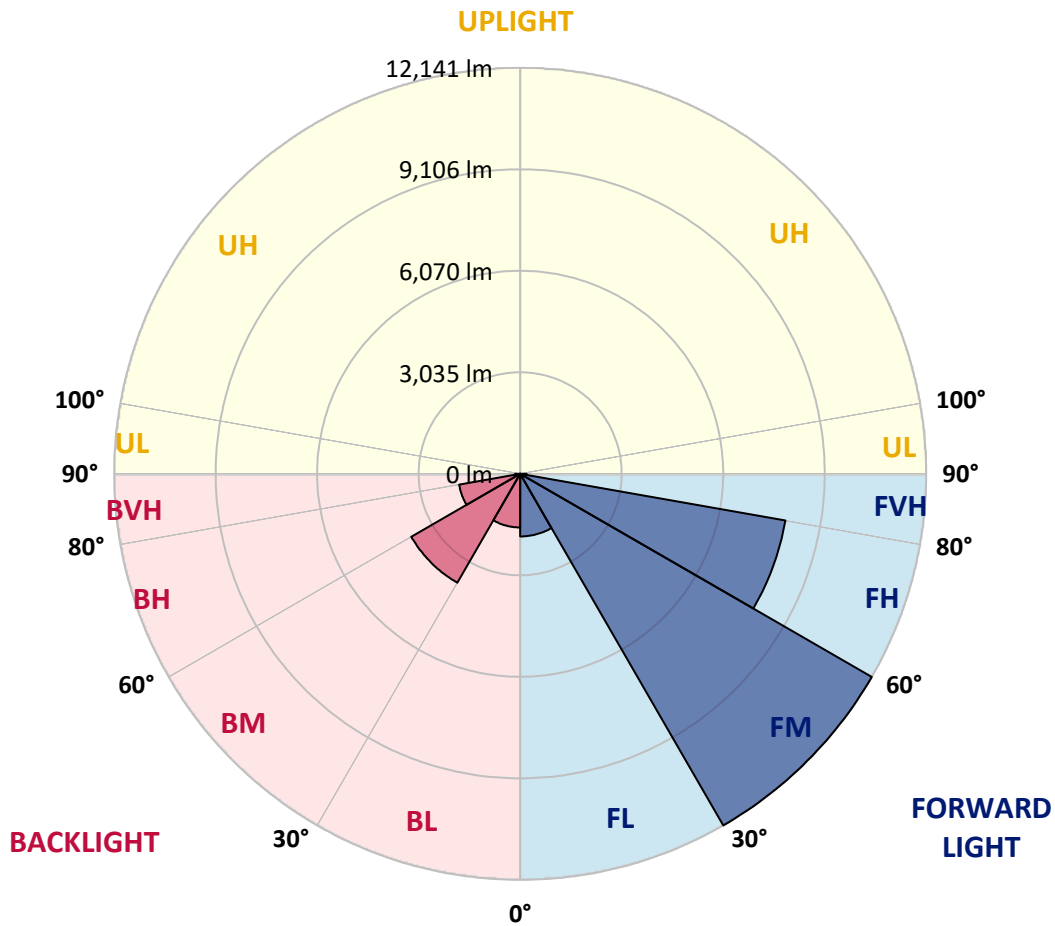
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1872.1	6.3			
FM (30°-60°)	12140.9	41.0			
FH (60°-80°)	8053.4	27.2			G4/12000
FVH (80°-90°)	193.9	0.7			G2/225
BL (0°-30°)	1604.7	5.4	B3/2500		
BM (30°-60°)	3760.0	12.7	B3/5000		
BH (60°-80°)	1853.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	148.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0
2.5°	3251.8	3270.5	3265.8	3258.0	3256.5	3259.6	3264.2	3268.9	3267.3	3275.1
5°	3242.4	3261.1	3259.6	3259.6	3265.8	3278.2	3286.0	3293.8	3286.0	3295.4
7.5°	3248.7	3262.7	3268.9	3275.1	3290.7	3314.0	3332.7	3349.8	3340.5	3351.4
10°	3328.1	3339.0	3345.2	3345.2	3356.1	3382.5	3401.2	3432.3	3424.6	3441.7
12.5°	3472.8	3483.7	3483.7	3477.5	3485.3	3502.4	3508.6	3542.9	3528.9	3556.9
15°	3650.3	3672.1	3654.9	3644.0	3647.2	3664.3	3662.7	3689.2	3675.2	3698.5
17.5°	3846.4	3874.4	3846.4	3844.9	3838.6	3857.3	3858.9	3882.2	3857.3	3874.4
20°	4078.3	4117.3	4093.9	4101.7	4087.7	4095.5	4103.3	4137.5	4098.6	4111.0
22.5°	4405.2	4451.9	4427.0	4456.6	4447.3	4441.0	4439.5	4500.2	4439.5	4444.2
25°	4881.6	4937.6	4894.0	4934.5	4934.5	4954.7	4978.1	5055.9	4954.7	4925.1
27.5°	5585.2	5641.2	5555.6	5580.5	5572.7	5622.5	5597.6	5790.6	5681.7	5633.4
30°	6432.0	6531.6	6369.7	6363.5	6355.7	6435.1	6470.9	6598.5	6488.0	6439.7
32.5°	7347.2	7451.5	7258.5	7202.5	7172.9	7221.2	7191.6	7294.3	7218.0	7143.3
35°	8315.5	8418.2	8234.5	8125.6	8007.3	7906.1	7800.2	7826.7	7755.1	7641.4
37.5°	9230.8	9419.1	9224.5	9107.8	8889.9	8692.2	8396.4	8273.4	8206.5	8102.2
40°	10163.2	10270.6	10122.7	10023.1	9786.5	9476.7	9003.5	8743.5	8653.3	8552.1
42.5°	10849.6	10952.4	10873.0	10804.5	10619.3	10259.7	9647.9	9322.6	9191.8	9078.2
45°	11394.5	11470.7	11420.9	11445.8	11366.4	11017.8	10315.7	9943.7	9808.3	9669.7
47.5°	11613.9	11694.9	11774.3	11922.2	12057.6	11800.7	11033.3	10616.2	10472.9	10331.3
50°	11589.0	11671.5	11901.9	12216.4	12636.6	12551.0	11789.8	11332.2	11199.9	11038.0
52.5°	11389.8	11483.2	11778.9	12302.0	12971.3	13113.0	12560.4	12071.6	11947.1	11754.0
55°	10866.8	10922.8	11366.4	12107.4	13050.7	13505.2	13315.3	12859.2	12734.7	12465.4
57.5°	9897.0	9977.9	10623.9	11582.8	12851.5	13771.4	13978.5	13687.4	13567.5	13179.9
60°	8631.5	8760.7	9500.1	10701.8	12344.0	13769.9	14580.9	14501.5	14401.9	13883.5
62.5°	7199.4	7348.8	8060.2	9456.5	11456.7	13379.2	14957.6	15183.3	15131.9	14532.6
65°	5529.1	5631.9	6340.1	7845.4	10076.0	12540.1	15001.2	15648.7	15658.0	15026.1
67.5°	3681.4	3977.2	4592.0	5887.1	8226.7	11168.8	14618.2	15725.0	15815.3	15195.7
70°	1796.3	2185.5	2787.9	3826.2	5887.1	9065.8	13617.3	15099.2	15300.0	14700.7
72.5°	745.6	871.7	1200.2	1888.2	3379.4	6117.5	11606.2	13402.5	13774.5	13025.8
75°	502.8	544.8	686.5	968.2	1539.5	3016.7	8369.9	9993.5	10592.8	9837.8
77.5°	387.6	414.1	499.7	677.1	915.3	1141.0	4480.0	6022.6	6332.3	5862.2
80°	305.1	325.3	373.6	493.4	649.1	610.2	1527.0	2728.8	2907.8	2439.2
82.5°	264.6	272.4	267.7	334.7	431.2	356.5	501.2	1007.1	1111.4	806.3
85°	191.5	213.3	222.6	207.0	228.8	180.6	205.5	356.5	392.3	350.2
87.5°	77.8	115.2	141.7	133.9	84.1	51.4	63.8	104.3	119.9	130.8
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°
3286.0	0°	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0
3287.6	2.5°	3289.1	3300.0	3307.8	3317.2	3323.4	3332.7	3351.4	3362.3	3363.9	3371.6
3312.5	5°	3318.7	3334.3	3351.4	3376.3	3404.3	3427.7	3463.5	3488.4	3497.7	3505.5
3373.2	7.5°	3382.5	3404.3	3435.5	3479.0	3519.5	3550.7	3594.2	3623.8	3653.4	3664.3
3469.7	10°	3477.5	3508.6	3553.8	3612.9	3656.5	3697.0	3742.1	3767.0	3796.6	3809.1
3584.9	12.5°	3595.8	3628.5	3687.6	3770.1	3810.6	3838.6	3854.2	3848.0	3854.2	3865.1
3723.4	15°	3731.2	3767.0	3834.0	3922.7	3950.7	3925.8	3891.6	3860.4	3855.7	3858.9
3891.6	17.5°	3891.6	3918.0	3995.8	4070.6	4050.3	3947.6	3872.9	3823.1	3798.2	3790.4
4106.4	20°	4115.7	4115.7	4179.5	4226.2	4090.8	3916.5	3799.7	3718.8	3667.4	3645.6
4399.0	22.5°	4388.1	4363.2	4403.7	4371.0	4083.0	3829.3	3667.4	3527.3	3449.5	3418.3
4808.4	25°	4733.7	4704.1	4693.2	4490.9	4027.0	3690.7	3427.7	3258.0	3189.5	3172.4
5398.4	27.5°	5255.2	5180.4	5038.8	4556.2	3924.2	3472.8	3147.5	2990.3	2951.4	2952.9
6156.4	30°	5949.4	5800.0	5452.8	4567.1	3756.1	3164.6	2861.1	2749.0	2730.3	2738.1
6793.1	32.5°	6592.3	6450.6	5876.2	4517.3	3497.7	2862.6	2604.2	2529.5	2501.5	2510.8
7278.8	35°	7096.6	7057.7	6268.5	4447.3	3180.2	2579.3	2373.8	2310.0	2255.5	2243.1
7736.4	37.5°	7573.0	7557.4	6562.7	4349.2	2865.7	2378.5	2188.6	2104.6	2025.2	1981.6
8242.3	40°	8096.0	8080.4	6755.7	4198.2	2587.1	2204.2	2022.1	1911.5	1813.5	1734.1
8815.1	42.5°	8684.4	8592.5	6847.6	3981.8	2350.5	2056.3	1886.6	1737.2	1608.0	1534.8
9462.7	45°	9327.3	9120.2	6846.0	3706.3	2151.2	1920.9	1741.9	1530.2	1410.3	1341.8
10127.4	47.5°	10009.1	9624.6	6762.0	3401.2	1958.2	1771.4	1517.7	1355.8	1276.4	1234.4
10849.6	50°	10712.7	10096.2	6618.8	3051.0	1760.5	1601.8	1377.6	1267.1	1206.4	1167.5
11565.7	52.5°	11374.2	10524.3	6446.0	2654.0	1559.7	1436.8	1315.3	1229.7	1165.9	1122.3
12259.9	55°	11989.1	10893.2	6201.6	2247.8	1396.3	1326.2	1285.8	1214.2	1141.0	1089.6
12965.1	57.5°	12535.5	11132.9	5779.7	1866.4	1279.5	1250.0	1254.6	1187.7	1103.6	1060.1
13659.3	60°	12990.0	11308.8	5155.5	1513.0	1184.6	1175.2	1206.4	1137.9	1039.8	990.0
14246.2	62.5°	13262.4	11305.7	4389.7	1239.1	1103.6	1106.8	1142.6	1075.6	976.0	929.3
14552.8	65°	13239.1	11028.7	3549.1	1060.1	1025.8	1028.9	1075.6	1007.1	923.1	895.1
14398.7	67.5°	12770.5	10353.1	2722.5	943.3	940.2	954.2	1008.7	960.4	890.4	887.3
13480.3	70°	11501.9	8950.6	1961.3	849.9	851.5	871.7	943.3	930.9	873.3	879.5
11333.8	72.5°	9223.0	6824.2	1316.9	751.8	753.4	786.1	881.0	907.5	856.1	938.6
8041.5	75°	6142.4	4255.8	846.8	647.6	649.1	691.1	826.6	862.4	809.4	935.5
4184.2	77.5°	2951.4	1913.1	613.3	544.8	544.8	583.7	714.5	772.1	689.6	726.9
1344.9	80°	1019.6	719.2	482.6	439.0	429.6	456.1	602.4	669.3	594.6	547.9
439.0	82.5°	401.6	373.6	387.6	340.9	309.8	326.9	468.5	552.6	437.4	395.4
247.5	85°	230.4	242.8	274.0	225.7	179.0	200.8	344.0	396.9	330.0	291.1
80.9	87.5°	62.3	85.6	126.1	116.7	80.9	85.6	163.4	219.5	189.9	146.3
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>
3286.0
3370.1
3504.0
3665.8
3815.3
3868.2
3869.8
3801.3
3640.9
3413.7
3175.5
2957.6
2764.6
2523.3
2252.4
1983.1
1741.9
1539.5
1338.7
1225.1
1153.5
1103.6
1069.4
1032.0
968.2
915.3
893.5
<b>891.9</b>
877.9
951.1
943.3
666.2
513.7
393.8
297.3
151.0
0.0

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